

**BALUCHISTAN PUBLIC SERVICE COMMISSION**

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

ENGLISH LITERATURE (FEMALE)

Roll Number

18-Nov-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Question No. 1 is COMPULSORY . All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-I

Q-1 (A) Select the correct answer. (10)

- The main character of Paradise book 1 and 2 is:
a) Adam b) Eve c) God d) Satan
- The second series of Charles Lamb's *Essay of Elia* was published in:
a) 1823 b) 1826 c) 1833 d) 1934
- Vanity Fair* is written by
a) Jane Austen b) Charles Dickens c) Thomas Hardy d) W. M. Thackeray
- The sub-title of Twelfth Night is:
a) What is you will b) What you will c) Will you please do it d) What is with you
- Which book of Ruskin is influenced by Mahatma Gandhi?
a) The seven lamps of architecture b) Sesame and lilies c) Unto his last d) Fors Clavigera
- Which of the following plays of Shakespeare has an epilogue?
a) The Tempest b) Hamlet c) Twelfth night d) Henry 4
- The play *Hamlet* is an artistic failure, declared:
a) Robert Frost b) William Wordsworth c) T.S. Eliot d) S.T. Coleridge
- Which poet does not belong to the Lake School:
a) Keats b) Southey c) Wordsworth d) Coleridge
- Waste Land* is the music of ideas, declared:
a) Allen Tate b) J.C. Ransom c) I.A. Richards d) F.R. Leavis
- Who does not belong to the second generation of British Romantics:
a) Keats b) Wordsworth c) Shelley d) Byron

(B) Fill in the blanks.**(05)**

- The two who poets collaborated on the Lyrical Ballads of 1798, thus demonstrating the "spirit of the age," which, in an era of revolutionary thinking, depended on a belief in the limitless possibilities of the poetic imagination, were.....
-declared that the inner feelings of the individual poet are "the spontaneous overflow of powerful feelings".
- Romantic poetry about the natural world uses descriptions of nature for/to.....
- Natural Supernaturalism, as a Romantic notion introduced by Carlyle means.....
- The setting that could not be imagined to be included in the realm of Romantic literature would be.....

(C) Mark correct or incorrect:**(05)**

- The Romantics, "mesmerism," is corresponding to one of the "occult" practices called hypnotism, that allowed people to explore altered states of consciousness.
- Between 1520 and 1550, the population of London doubled from 600,000 to 1,200,000.
- The art of printing was introduced into England by William Tyndale.
- Oxymoron is a comparison amid two entities.
- George Puttenham, among the sixteenth-century poets was not a courtier.



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PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-II: MAXIMUM MARKS: 80

NOTE: i. Attempt TWO questions from Section-A and ALL questions from Section-B.
ii. All the parts (if any) of each Question must be attempted at one place instead of at different places.
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PART-II

SECTION-A (Attempt any two questions)

- Q-2 Elaborate why Shakespeare's tragedies are replete with bloodshed and revenge? (20)
- Q-3 Elucidate the de-human and de-valuing effects of humanity described in Juno and the Paycock? (20)
- Q-4 Expound various themes of Murder in the Cathedral with examples from the text. (20)
- Q-5 Milton's *Paradise Lost* is the glory of the leader magnified in books 1 and 2. Elucidate. (20)

SECTION-B (Attempt all questions)

- Q-6 Write an essay on any one of the following topics: (20)
- Nature is the true revelation of the Deity to man. The nearest green field is the inspired page from which you may read all that it is needful for you to know. ~ Sir Arthur Conan Doyle
 - "Life is pleasant. Death is peaceful. It's the transition that's troublesome." — Isaac Asimov
 - "Hope Smiles from the threshold of the year to come, Whispering 'it will be happier'..." — Alfred Tennyson
- Q-7 Fill in with appropriate prepositions: (05)
- All the students will work ___ a collaborative environment.
 - This program offers a broad education in areas relevant to the study ___ human health.
 - Marine Biology is all ___ the largest and most diverse ecosystem on the planet – the sea.
 - Current issues ___ the field should be addressed by means of a review ___ the literature.
- Q-8 Identify the voice of the following sentences: (05)
- The award was given to the top student.
 - We decided not to hire anyone.
 - The pizza was delicious.
 - The pizza was ordered.
 - I didn't fix the problem.
- Q-9 Write the precise of the following and assign a suitable title. (10)
- Self-reliance is the pilgrim's best staff, the worker's best tool. It is the master key that unlocks all the difficulties of life. "Help yourself and heaven will help you" is a maxim which receives daily conformation. Help from the within always strengthens; but help from without invariably weakens the recipient. The habit of depending on other tends to weaken the intellectual faculties and paralyses the judgment. The struggle against adverse circumstances on the contrary, a strengthening effect, like of the pure mountain air on any enfeebled frame. This is lesson which is not taught in the schools a days. This vice of the modern system of education is that it lays down too many royal roads to knowledge. The difficulties which formerly compelled a student to think and labour for himself are now most carefully removed. The race of thorough and complete scholars is dying out. Our young men are equipped to such an extent with manual that explain everything and guides that to everywhere, that they find no occasion for through. Why do take any trouble at all when so many are willing to relieve you of it.



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ENGLISH LITERATURE (MALE)

Roll Number

15-Nov-19

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PART-I

Q-1 (A) Select the correct answer. (10)

- i) What is the actual name of Pip in *Great expectations*?
 a) Phalus Porop b) Philips Pope c) Philip Pirrip d) Fillir Phiyus
- ii) Estella is the daughter of:
 a) Miss Havisham b) Lawyer Don' c) Abel Magwitch d) Bentley Drummle
- iii) Hamlet's speech, "To be or not to be" occurs in:
 a) Act 2 Scene 1 b) Act 3 Scene 3 c) Act 4 Scene 3 d) Act 3 Scene 1
- iv) "Honest Old Counselor" in *Tempest* is:
 a) Alonso b) Ariel c) Gonzalo d) Stephano
- v) Blank verse is first used in English Literature by:
 a) P.B. Shelley b) Charles Lamb c) Hazlitt d) Coleridge
- vi) In the poem *Tintern Abbey*, "dearest friend" is:
 a) Wye b) Nature c) Dorothy d) Wye
- vii) *Endymion* by Keats is dedicated to:
 a) Leigh Hunt b) Milton c) Thomas Chatterton d) Shakespeare
- viii) *Paradise Lost* was originally written in:
 a) Ten books b) Eleven books c) Nine books d) Eight books
- ix) In memoriam was written in memory of:
 a) A.H. Hallam b) Edward King c) Willington d) P.B. Shelley
- x) In 1880, The Aesthetic Movement was not influenced by:
 a) Ruskin b) Patter c) Mathew Arnold d) The Pre Raphaelites

(B) Fill in the blanks.

(05)

- i) The epigraph of *The Waste Land* was borrowed from
- ii) The late-nineteenth century aesthetic movement could be best described in the phrase, art
- iii) Ezra Pound's imagist movement, could be explained as.....
- iv) The seventeenth-century Metaphysical poetry sparked the enthusiasm of modernist poets and critics with these two qualities:
- v) The term "Romantic" to the literary period dating from 1785 to 1830 was applied by

(C) Mark correct or incorrect:

(05)

- i) Intending his Utopia for an international intellectual community, Thomas More wrote in Latin, since English had no prestige outside of England.
- ii) Tudor, the royal dynasty was established in the resolution of the so-called War of the Roses and continued through the reign of Elizabeth I.
- iii) Machiavelli's *The Courtier*, was highly influential in the English court, providing subtle guidance on self-display.
- iv) William Blake asserted that in practice and theory the value of representing rustic life and language as well as social outcasts and delinquents not only in pastoral poetry, common before this poet's time, but also as the major subject and medium for poetry in general.
- v) *Juno and the Paycock* is set up in German context.



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PART-II

SECTION-A (Attempt any two questions)

- Q-2** Elucidate how the young artist achieves his identity in *A portrait of the Artist as a young man*? (20)
- Q-3** Explicate Eliot's approach in delineating the devastations and deteriorations of the modernity through his poetry? (20)
- Q-4** Illuminate Chaucer's artistic depiction of plethora of variant characters in *The prologue to the Canterbury tales*? (20)
- Q-5** The shallowness and superficiality of society are well depicted in *Absalom and Achitophel* and *Rape of the lock*. Compare and comment. (20)

SECTION-B (Attempt all questions)

- Q-6** Write an essay on any one of the following topics: (20)
- Beauty lies in the eyes of the beholder
 - "It is better to be hated for what you are than to be loved for what you are not." Andre Gide
 - "Nothing shakes the smiling heart." – Santosh Kalwar
- Q-7** Fill in with appropriate prepositions: (05)
- These are the cultural processes ___ globalization.
 - The researchers are reliant ___ external funding.
 - This course provides the opportunity to focus ___ your major area of interest.
 - Evolutionary Biology involves the study ___ information contained in living plants and animals.
 - In addition to the formal contact time required ___ each course students will need to allocate non-contact time.
- Q-8** Identify the voice of the following sentences: (05)
- I have never been to Wichita.
 - I have never been arrested.
 - The tower was built in 1802 by a French Artist.
 - Nothing happened.
 - No one was injured by the fire.
- Q-9** Write the precise of the following and assign a suitable title. (10)

Certain people consciously or unconsciously cherish the desire that some part of their work and of their accomplishment will outlive their own individual life. The influence which they have exercised on the world in which they lived, the concern which they have built up, the books which they have written, the work they have laid as a part of some scientific edifice, whose completion they themselves will not live to see all such things inspire the people that some aspect of themselves will outlast their own personal existence, the artist bequeaths his pictures, the scholar his contribution of knowledge while poets and composers are primarily concerned that posterity shall take pleasure in their creations. Statesmen envisage that particular agreement in whose development they themselves had played a crucial part will preserve their names for future generations. People are not unconcerned for their posthumous reputation. Many an old person is distinctly preoccupied with this question and keeps a zealous watch to ensure that his achievement are properly quoted and recorded.



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ISLAMIAT (FEMALE)

Roll Number

14-Nov-19

TIME ALLOWED: THREE HOURS
 PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20
 PART-II: MAXIMUM MARKS: 80

NOTE: i. Question No. 1 is **COMPULSORY**. All questions carry equal marks.
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PART-I

(10)

سوال نمبر: ۱ الف- درست جواب کا انتخاب کیجئے:

1. شاولی اٹل "لے الفاظ تدریجاً ایک کتاب یا باب کس ہم سے لکھا ہے؟
 ا: التور الکبیر ب: الخیر الکبیر
 ج: الخیر الکبیر د: التور الکبیر
2. حمام بن جبہ کی حج کردہ حدیث کی کتاب کا نام بتائیے؟
 ا: الصادق ب: الصمیر
 ج: الصدوق د: الصدوق
3. دو مسجدوں کے درمیان طے کیا کہتے ہیں؟
 ا: جسر ب: قنطرة
 ج: قنطرة د: جسر
4. نبوت کے حیر حویلی میں سالانہ سے بیت کے موقع پر آپ ﷺ نے کتنے قیام مقرر فرمائے؟
 ا: ۸ ب: ۱۰
 ج: ۱۲ د: ۱۴
5. آپ ﷺ کی کس زوجہ محترمہ کی آپ ﷺ کے ساتھ رفاقت کی مدت سب سے مختصر ہے؟
 ا: حضرت زینب ب: حضرت سوزہ
 ج: حضرت عائشہ د: حضرت سوزہ
6. حضرت ابراہیم بن محمد رضی اللہ عنہ کی والدہ کا کیا نام تھا؟
 ا: حضرت خدیجہ ب: اریہ قبیلہ
 ج: حضرت سوزہ د: حضرت سوزہ
7. تالود کس مذہب کی کتاب ہے؟
 ا: یسویت ب: مسیحیت
 ج: ہندومت د: ہندومت
8. بیت العلم کہاں واقع ہے؟
 ا: فلسطین ب: شام
 ج: اردن د: اردن
9. ہندومت میں کس دیوتا کو موت کا دیوتا سمجھا جاتا ہے؟
 ا: برہما ب: وشنو
 ج: شیوا د: شیوا
10. جس حدیث کی سند تاہی تک پہنچ جائے اسے کیا کہتے ہیں؟
 ا: موقوف ب: مقطوع
 ج: منقطع د: منقطع

(05)

ب- خالی جگہوں کو مناسب الفاظ سے پُر کریں:

1. احادیث پر التوروی اور اہم مقامی دعو کی میں عمل کرنا حفظ _____ کہلاتا ہے۔
2. البسوط کا دوسرا نام کتاب _____ ہے۔
3. اٹل تھالی کے ہندوکان خاص _____ کی دعو کی نہیں گندے۔
4. قیام اللیل سے مراد _____ کی نماز ہے۔
5. مہاربت میں سرمایہ فراہم کرنے والے کو _____ کہتے ہیں۔

(05)

ج- فرق واضح کریں۔

- ۱- احکام و آیتان ۲- نسبت اور جے ۳- درخت و عزیت ۴- داخلی جہاد و خارجی اجتہاد ۵- خبر مطہرہ و خبر منقطع



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PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Attempt <u>FOUR</u> questions from Part-II. All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-II

- (20) سوال نمبر: ۲ قرآنی تعلیمات کی روشنی میں تبلیغ نبوی ﷺ کا طریقہ کار اور اس کے اصول و ضابطہ سے بیان کریں۔
- (20) سوال نمبر: ۳ اسلام کے معاشرتی نظام میں خاندان کو بنیادی اہمیت حاصل ہے۔ مانع تہرہ کیجئے۔
- (20) سوال نمبر: ۴ خلافت راشدہ اسلامی جہنم کا ایک مہذبہ ہے، اس دور کی اہم خصوصیات تفصیل سے بیان کریں۔
- (20) سوال نمبر: ۵ عصر حاضر میں تشدد اور لہجہ انتہاء پسندی کی وجوہات کیا ہیں؟ اسلام نے اس کے حل کے لیے کیا طریقہ کار بتایا ہے؟ مانع لوٹ تحریر کریں۔
- (20) سوال نمبر: ۶ تہذیب و تمدن کا مفہوم واضح کرتے ہوئے اسلامی تہذیب کی اہم خصوصیات تفصیل سے بیان کریں۔
- (20) سوال نمبر: ۷ اسلام نے عورت کی حیثیت و کردار کا کوئی اعلیٰ اور بلند مقام عطا کیا ہے، قرآن و حدیث کی روشنی میں اس کو واضح کریں۔
- (20) سوال نمبر: ۸ اسلام کے اخلاقی اقدار کی وضاحت کرتے ہوئے درج ذیل عنوانات پر تفصیلی نوٹ تحریر کریں۔

۲۔ بدل و انصاف

۱۔ رواداری

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Roll Number

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PART-I

(05)

سوال نمبر: ۱ الف۔ مندرجہ ذیل سوالات کے مختصر جوابات تحریر کریں:

- i. ایک خدا کا درست دعا کیا ہونا چاہیے؟
 ii. تقادور فنکار میں بنیادی لڑق کیا ہے؟
 iii. جدید نظم کی بنیاد کب رکھی گئی؟
 iv. ن م راشد کی بیشتر نکتوں کا موضوع کیا ہے؟
 v. کیا اولیٰ اقدار ہمارا ہوتی ہیں یا حرکت پذیر؟

(05)

ب۔ مندرجہ ذیل ضرب النثر کے مفہوم کو واضح کریں:

- i. اے حاکم بھر نہ کھائے
 ii. آئے کائنات کو آئے کائنات
 iii. نثر میں سو نکات ہم غریب داس
 iv. یوگنی بودار گئی ری کمال کی کمال
 v. نکلوی کٹو آسمان پہ کھول سلا

(05)

ج: مندرجہ ذیل کتب کے مصنفین کون ہیں؟ درست جواب منتخب کریں:

1. "ترقی پسند ادب"
 ا۔ پریم چر ب۔ عزیز احمد ج۔ اسد اللہ غالب د۔ مسرت چٹاکی
 2. "آوازوں کے سائے"
 ا۔ الطاف حسین حالی ب۔ کرشن چندر ج۔ مہدالیم شرر د۔ عزیز احمد
 3. "مرد و تامل کی تخیلی جدوجہد"
 ا۔ محمد حسن قادری ب۔ نذیر احمد ج۔ قمر امین حیدر د۔ مولوی مہدالیم
 4. "کار جہاں دراز ہے"
 ا۔ راشد الخیری ب۔ پریم چر ج۔ مسرت چٹاکی د۔ قمر امین حیدر
 5. "میں لوح و قلم"
 ا۔ احمد عظیم قاسمی ب۔ فیض احمد فیض ج۔ فیض فطانی د۔ الطاف حسین حالی

(05)

د۔ مندرجہ ذیل محاورات کو جملوں میں استعمال کریں:

- ۱۔ ہڈی پڑ آتا ۲۔ مجھروں تا چتا ۳۔ مردار ہڈی پڑ آتا ۴۔ لٹا نہ بیٹا ۵۔ تخت کا تختہ ہوتا



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PART-II

- (20) سوال نمبر: ۲ ہجرت کے تجربے کے حوالے سے ناصر کاظمی کے اسلوب نگارش کی وضاحت کریں۔
- (20) سوال نمبر: ۳ ن۔ مراد شاہ کی نکتوں میں داخلیت کے ساتھ خارجیت کا عنصر لیا گیا ہے۔ تائید یا تردید کریں۔
- (20) سوال نمبر: ۴ تنقید نہ صرف ادبی تحفوں کی لوک پک کو درست کرتی ہے بلکہ تمدن و زندگی کے اہم پہلوؤں کے محاسن و معائب کو بھی اجاگر کرتی ہے۔ فی اعتبار سے تنقیدی اصولوں پر بحث کریں۔
- (20) سوال نمبر: ۵ ناول کا ادب میں مقام حسین کرتے ہوئے اچھے پلاٹ کی تشکیل میں ناول کی اہمیت کو واضح کریں۔
- (20) سوال نمبر: ۶ فیض احمد فیض نے اپنی شاعری میں حقیقت اور زمان کا احراز پیدا کیا ہے۔ مفصل بحث کریں۔
- (20) سوال نمبر: ۷ ریختہ کی اصطلاح کن کن معنوں میں استعمال کی جاتی ہے یا ہوتی رہی ہے؟ مفصل تحریر کریں۔
- (20) سوال نمبر: ۸ اردو میں اصلاحِ زبان کی جو تحریکیں ملی ان کا تنقیدی جائزہ لیں۔
- (20) سوال نمبر: ۹ مندرجہ ذیل میں سے کسی ایک پر نوٹ تحریر کریں۔
 ۱۔ ترقی پسند تحریک
 ۲۔ ردائوی تحریک



BALUCHISTAN PUBLIC SERVICE COMMISSION

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF

LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

EDUCATION (MALE/FEMALE)

Roll Number

12-Nov-19

TIME ALLOWED:	THREE HOURS	MAXIMUM MARKS: 100
NOTE:	<p>i. Attempt FIVE questions in all Question No. 1 is COMPULSORY. All questions carry equal marks.</p> <p>ii. All the parts (if any) of each Question must be attempted at one place instead of at different places.</p> <p>iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.</p> <p>iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</p>	

PART-I

Q-1 Write short answers.

(20)

- Write two differences between liberal and technical education.
لبرل اور ٹکنیکی تعلیم کے درمیان دو فرق بیان کریں۔
- What is Centralization and Decentralization in Curriculum Development?
نصاب کی تیاری میں مرکزیت اور عدم مرکزیت سے کیا مراد ہے؟
- Define the term Metaphysics
اصطلاح "مابعدالطبیعات" کی تعریف کریں۔
- Define the term assessment.
اصطلاح "جانچ/پڑتال" کی تعریف کریں۔
- What is axiology?
محوریات سے کیا مراد ہے؟
- Who is founder of Kinder Garten?
کنڈرگارٹن کا بانی کو ہے؟
- What is the difference between guidance and counselling in education?
حصول تعلیم میں رہنمائی اور مشاورت میں کیا فرق ہے؟
- What are two strengths of essay type testing?
امتحان بذریعہ مضمون نویسی کی دو بنیادی خصوصیات بیان کریں۔
- What is a higher order question?
"اعلیٰ سطحی سوال" سے کیا مراد ہے؟
- Define learning.
"تعلیم" سے کیا مراد ہے؟

PART-II

Q-2 What is the need, Importance and Purpose of Evaluation in the process of curriculum development? How evaluation improves the curriculum? Give reasons for your answer. (20)

نصاب کی تیاری کے عمل میں جائزہ کی ضرورت، اہمیت اور مقصد کیا ہے؟ کس طرح جائزہ نصاب کو بہتر بناتا ہے؟ اپنے جواب کی وجوہات بتائیں۔

Q-3 What qualities would you suggest for constructing essay and objective type test? (20)

مضمون نویسی اور معروضی امتحان کی تیاری کے لیے آپ کیا خصوصیات تجویز کرتے ہیں؟

Q-4 Define the concepts of school organization, management and discipline and explain the factors affecting school discipline. (20)

اسکول کی تنظیم، نظم و نسق اور نظم و ضبط کے تصورات کی وضاحت کریں اور اسکول کے نظم و ضبط پر اثر انداز ہونے والے عوامل کی وضاحت کریں؟

Q-5 What is educational planning and give details on the process of educational planning? (20)

تعلیمی منصوبہ بندی کیا ہے اور تعلیمی منصوبہ بندی کے عمل کے بارے میں تفصیلات بیان کریں؟

Q-6 What are different types of evaluation? Give details. (20)

جائزہ کی مختلف اقسام کیا ہیں؟ تفصیلات بیان کریں۔

Q-7 What are the features of an effective school and how the role of a school head may improve school management? (20)

ایک موثر اسکول کی خصوصیات کیا ہیں اور اسکول کے سربراہ کے کردار سے اسکول کے انتظام کو کیسے بہتر بنایا جاسکتا ہے؟



BALUCHISTAN PUBLIC SERVICE COMMISSION

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
ADMIN & ACCOUNTS OFFICER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Roll Number

ACCOUNTING

Total Marks: 100

September 11, 2020

Time Allowed: 03 Hours

- NOTE:**
- Attempt any **FIVE** questions. All questions carry equal marks.
 - All the parts (if any) of each Question must be attempted at one place instead of at different places.
 - Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
 - No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
 - Extra attempt of any question or any part of the attempted question will not be considered.

Q. No. 1 Following figures are taken from annual budget of ABC manufacturers for the year 2013: (20)

- Fixed factory overhead Rs. 400,000
- Factory overhead absorption rate Rs. 70 per direct labour hour
- Variable factory overhead rate Rs. 30 per direct labour hour
- Following are a few figures of actual results of the year 2013:
- Capacity attained 110,000 hours
- Factory overhead Rs. 8,000,000

REQUIRED:

- Budgeted capacity that was used to compute factory overhead absorption rate.
- Analysis of under or over absorbed factory overhead into volume and budget variances.

Q. No. 2 Following costs were charged to 2nd Department of Muddassar Corporation during the month of September. Cost of units received from 1st Department Rs. 364,000; materials Rs. 327,500; labour Rs. 221,970; overhead Rs. 80,360. (20)

During the month 2nd department completed operations on 4,700 units and transferred these units to 3rd department, 200 units were lost during processing; the loss is considered unavoidable. At the end of month 300 units were in process; these units were 2/3 converted. All materials are added in 2nd department at the beginning of manufacturing operations.

REQUIRED:

Cost of production report.

Q. No. 3 M/S Naeem Motors sent 100 cars to Haseeb on consignment. The cost of each car was Rs. 12,000 but was invoiced to Haseeb at cost plus 25%. The expenses of M/S Naeem Motors were: Freight Rs. 7,000; Insurance Rs. 3,000 During transit one car was destroyed and the insurance company admitted Rs. 9,000 towards that claim. Haseeb sold 7 cars at Rs. 15,000 each and paid for storage and insurance Rs. 3,400. Haseeb then accepted bill for Rs. 90,000 at 3 months drawn by M/S Naeem Motors which they discounted immediately with their banker at 6% p.a. It was agreed that Haseeb is to get 5% commission. (20)

REQUIRED:

Give consignment journal entries and ledger account in the books of M/S Naeem Motors.

Q. No. 4 A draws on B a bill of exchange for Rs. 5,000 on 1st January 2013 at three months for mutual accommodation B accepts the bill and sends it to A who gets it to A who gets it discounted for Rs 4,800 and remits immediately half of the proceeds to B On 31st March 2013, A unable to send the B for Rs 3,500 B sends Rs 900 to A. Before the maturity of the bill accepted by A, he becomes insolvent and 40 % is received from his estate as final dividend. (20)

REQUIRED:

Pass the journal entries in the books of both the parties Also, show A's account in B's books.

P.T.O

Q. No. 5 The extracts are taken from the draft balance sheet of Crescent Appliances Limited as on 31st December 2013: (20)

Authorized Capital:	Rs.
Rs. 30,000 ordinary shares of Rs. 100 each	30,00,000
Issued, Subscribed and Paid-up Capital:	
12,500 shares of Rs. 100 each	12,50,000
Reserve fund	825,000
Profit & loss account	330,000

The Board of Directors recommended issuing bonus shares at the rate 15 shares of Rs. 100 each for every 50 shares held at present. For this purpose, Rs. 200,000 is to be provided out of profit & loss account and the balance out of reserve fund. The Board also recommended issuing right shares of the company @ 30 shares of Rs. 100 each for every 50 shares at a premium of Rs. 20% per share. The approval of controller of capital issue had already been obtained.

REQUIRED:

Make necessary journal entries to give effect to the recommendations of board of directors and show how they would affect the balance sheet.

Q. No. 6 The Trial Balance of Mr. Ishtiaq did not agree. The accountant transferred the difference to the Suspense account and subsequently detected the following mistakes. (20)

1. Return of goods to a supplier, Shabeer for Rs. 4,000 has not been posted to his account.
2. Interest received Rs. 4,800 though entered in the Cash Book was not posted to the relevant income account.
3. Purchases return to Malik Shakeel Rs. 6,000 have been wrongly entered in the sales Return Book.
4. An amount of Rs7,680 which was to be debited to Shumaila account, wrongly debited as Rs7,860
5. Rs. 14,000 paid for purchase of furniture was charged to the Building account.
6. Rs. 16,000 being wages paid debited to Wages account twice.

REQUIRED:

Give Rectifying Journal Entries and Prepare Suspense Account.

Q. No. 7 A store sells t-shirts. The average selling price is Rs. 15 and the average variable cost (cost price) is Rs. 9. Thus, every time the store sells a shirt it has Rs. 6 remaining after it pays the manufacturer. This Rs. 6 is referred to as the unit contribution. (20)

- a) Suppose the fixed costs of operating the store (its operating expenses) are Rs. 100,000 per year. Find Break-even in units?
- b) If the owner desired a profit of Rs. 25,000, what will be break-even point in Rupees?
- c) If fixed costs rose to Rs. 110,000, break-even in units' volume would be?
- d) The average selling price rose to Rs.16, break even volume would fall?

Q. No. 8 Define a joint stock company. Explain the features of Joint Stock Company and different modes of winding up of Joint Stock Company. (20)

Q. No. 9 What is the need for Business Amalgamation, state the factors affecting such decisions? Enumerate the methods of calculating depreciation. Discuss briefly the merits and demerits of each method. (20)



BALUCHISTAN PUBLIC SERVICE COMMISSION

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF

LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

EDUCATION (MALE/FEMALE)

Roll Number

12-Nov-19

TIME ALLOWED:	THREE HOURS	MAXIMUM MARKS: 100
NOTE:	<p>i. Attempt FIVE questions in all Question No. 1 is COMPULSORY. All questions carry equal marks.</p> <p>ii. All the parts (if any) of each Question must be attempted at one place instead of at different places.</p> <p>iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.</p> <p>iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</p>	

PART-I

Q-1 Write short answers.

(20)

- Write two differences between liberal and technical education.
لیبرل اور ٹکنیکی تعلیم کے درمیان دو فرق بیان کریں۔
- What is Centralization and Decentralization in Curriculum Development?
نصاب کی تیاری میں مرکزیت اور عدم مرکزیت سے کیا مراد ہے؟
- Define the term Metaphysics
اصطلاح "مابعدالطبیعات" کی تعریف کریں۔
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- Define learning.
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PART-II

Q-2 What is the need, Importance and Purpose of Evaluation in the process of curriculum development? How evaluation improves the curriculum? Give reasons for your answer. (20)

نصاب کی تیاری کے عمل میں جائزہ کی ضرورت، اہمیت اور مقصد کیا ہے؟ کس طرح جائزہ نصاب کو بہتر بناتا ہے؟ اپنے جواب کی وجوہات بتائیں۔

Q-3 What qualities would you suggest for constructing essay and objective type test? (20)

مضمون نویسی اور معروضی امتحان کی تیاری کے لیے آپ کیا خصوصیات تجویز کرتے ہیں؟

Q-4 Define the concepts of school organization, management and discipline and explain the factors affecting school discipline. (20)

اسکول کی تنظیم، نظم و نسق اور نظم و ضبط کے تصورات کی وضاحت کریں اور اسکول کے نظم و ضبط پر اثر انداز ہونے والے عوامل کی وضاحت کریں؟

Q-5 What is educational planning and give details on the process of educational planning? (20)

تعلیمی منصوبہ بندی کیا ہے اور تعلیمی منصوبہ بندی کے عمل کے بارے میں تفصیلات بیان کریں؟

Q-6 What are different types of evaluation? Give details. (20)

جائزہ کی مختلف اقسام کیا ہیں؟ تفصیلات بیان کریں۔

Q-7 What are the features of an effective school and how the role of a school head may improve school management? (20)

ایک موثر اسکول کی خصوصیات کیا ہیں اور اسکول کے سربراہ کے کردار سے اسکول کے انتظام کو کیسے بہتر بنایا جاسکتا ہے؟



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
COMPUTER SCIENCE (MALE/FEMALE)

Roll Number

11-Nov-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Question No. 1 is COMPULSORY . All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-I

Q-1 (A) Select the correct answer. (10)

- i) Modem stands for:
a) A type of secondary memory b) Modulator demodulator
c) Mainframe operating device memory d) None of the above
- ii) A step by step procedure used to solve a problem is called:
a) Operating system b) Algorithm c) Application Program d) None of the above
- iii) WAN hardware includes:
a) Multiplexors and routers b) EDF c) Bridger and modems d) None of the above
- iv) Pick out the wrong definition:
a) Access time – time needed to access the output
b) EDP – acronym for Electronic Data Processing
c) COBOL – a language used for business data processing
d) Control unit – heart of a computer
- v) _____ are used for converting one type of number system in to the other form:
a) Decoder b) logic gate c) Half adder d) Full adder
- vi) A single sequential flow of control within a program is _____
a) Process b) Task c) Thread d) Structure
- vii) OSS stands for:
a) Open System Service b) Open Source Software
c) Open System Software d) Open Synchronized Software
- viii) _____ operate at bottom two layers of the OSI model.
a) Bridges b) Switches c) Models d) Modules
- ix) The program written by the programmer in high level language is called _____
a) Object Program b) Source Program c) Assembled Program d) Compiled Program
- x) Alphabetic Data A _____ represents the need of information in the program without the presenting the details.
a) Abstraction b) Polymorphism c) Implementation d) Class

(B) Fill in the blanks. (05)

- i) A Register is a group of _____.
- ii) The Second Generation of computers used _____.
- iii) To speed up the processor operations, the processor includes some internal memory storage locations, called _____.
- iv) IMS stands for _____.
- v) A procedural programming follows _____.

(C) Differentiate between the following: (05)

- i. CAD and CAM iii. overloading and overriding v. call by value and call by reference
- ii. workbook and worksheet iv. ++x and x++



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IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
COMPUTER SCIENCE (MALE/FEMALE)

Roll Number

11-Nov-19

TIME ALLOWED: THREE HOURS
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-II: MAXIMUM MARKS: 80

NOTE:

- Attempt **FOUR** questions from Part-II. All questions carry equal marks.
- All the parts (if any) of each Question must be attempted at one place instead of at different places.
- Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
- No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-II

- Q-2 a) Consider the following C program "for (i = 1; i <= 10; i++) a = a + b;" Draw a flowchart for the given program? (10)
- b) What is the Destructor and Constructor in OOP explain it with an example? (10)
- Q-3 a) What is RAID and what are its different levels? (10)
- b) Explain the different kinds of a kernel? (10)
- Q-4 a) What do you mean by Classes of Network and what would be the size of IP address, if it's an IPv4 and IPv6? (10)
- b) What are the meaning of threat, vulnerability, and risk? (10)
- Q-5 a) Explain in details about the available languages in the Database Management System (DBMS)? (10)
- b) Explain it in detail different Stages of data processing cycle? (10)
- Q-6 a) What do you understand by a Linked List and What are its different types? (10)
- b) What do you understand by Stack and where can it be used? (10)
- Q-7 Explain the various types of models which used in software Engineering with all their benefits and limitations with diagrams? (20)
- Q-8 a) How Bubble Sort Algorithm works, draw its Flowchart and also define its Complexity and Performance? (10)
- b) Explain DDOS attack and how to prevent it? (10)



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LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
URDU (FEMALE)

Roll Number

08-Nov-19

TIME ALLOWED: THREE HOURS
 PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20
 PART-II: MAXIMUM MARKS: 80

NOTE: i. Question No. 1 is **COMPULSORY**. All questions carry equal marks.
 ii. All the parts (if any) of each Question must be attempted at one place instead of at different places.
 iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
 iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-I

(05)

سوال نمبر: ۱ الف۔ مندرجہ ذیل سوالات کے مختصر جوابات تحریر کریں:

- i. انگریزی کرد و خودوں نے کیا پایا ہے؟
- ii. مولانا حالی کے نزدیک شعر کی بنیادی خوبیوں کیا ہیں؟
- iii. نظم "مردانہ" کا تعلق بیان کریں۔
- iv. اردو میں نثر کس وجہ کی بنیاد وجود میں آئی؟
- v. ہر قوم کے اللہ میں پیدا ہے عالم
- vi. شرق ہے لڑائے قیامت نمود آج
- vii. اقبال کا یہ شعر کس بات کی عکاسی کرتا ہے؟

(05)

ب۔ مندرجہ ذیل اشعار کے شعراء کے نام تحریر کریں:

- i. جہول میں جہادے وہ ان کی زبان ہے
- ii. میں اور تم سے ترک محبت کی آرزو
- iii. آج ہم وہ پہنچنے کے جن ہاں ہے
- iv. میں نے روکا بھی نہیں اور وہ طرا بھی نہیں
- v. دیر سے آگے پہ اترا نہیں انہوں کا غلاب
- vi. جہادے ہیں عاشق کلمات والے
- vii. لپٹے لپٹے ہے ترا قرض تہانے کب سے

(05)

ج۔ مندرجہ ذیل اشعار میں کون کون سی فی مسمعات پائی گئی ہیں، نشاندہی کریں:

- i. نہ ہوں میں شکوہ سے یوں راگ چھو ہوا
- ii. میری خشک آنکھوں میں آنسو کہاں ہے
- iii. وہ جب بھی چلتے ہیں میں یہ کہا ہوں یاد ہے
- iv. کہوں کیا جلد کی اس کی مثال کی
- v. عزت ہوئی طر میں جن کے ہلے
- vi. اک ذرا پھیرے پھر دیکھئے کیا ہوتا ہے
- vii. جہول کی دوپہار جمائیں تھیں
- viii. تھیں ہاں
- ix. تھیں ہاں
- x. تھیں ہاں
- xi. تھیں ہاں
- xii. تھیں ہاں
- xiii. تھیں ہاں
- xiv. تھیں ہاں
- xv. تھیں ہاں
- xvi. تھیں ہاں
- xvii. تھیں ہاں
- xviii. تھیں ہاں
- xix. تھیں ہاں
- xx. تھیں ہاں

(05)

د۔ مندرجہ ذیل محاورات کو جملوں میں استعمال کریں:

- i. لڑنے پر ہرگز
- ii. لڑنے پر ہرگز
- iii. لڑنے پر ہرگز
- iv. لڑنے پر ہرگز
- v. لڑنے پر ہرگز
- vi. لڑنے پر ہرگز
- vii. لڑنے پر ہرگز
- viii. لڑنے پر ہرگز
- ix. لڑنے پر ہرگز
- x. لڑنے پر ہرگز
- xi. لڑنے پر ہرگز
- xii. لڑنے پر ہرگز
- xiii. لڑنے پر ہرگز
- xiv. لڑنے پر ہرگز
- xv. لڑنے پر ہرگز
- xvi. لڑنے پر ہرگز
- xvii. لڑنے پر ہرگز
- xviii. لڑنے پر ہرگز
- xix. لڑنے پر ہرگز
- xx. لڑنے پر ہرگز

**BALUCHISTAN PUBLIC SERVICE COMMISSION**

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF

LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

URDU (FEMALE)

Roll Number

08-Nov-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Attempt FOUR questions from Part-II. All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-II

- (20) سوال نمبر: ۲ زبوں کی تشکیل اور ارتقاء پر اور راست انسانی خیالات کی تشکیل اور ارتقاء پر مختصر ہے، بحث کیجئے۔
- (20) سوال نمبر: ۳ "دل بدل جاہلی کے تعلیم بدل جانے سے" اس مصرعے کی روشنی میں اکبر کے فکری ارتقاء کے تحت تصور تعلیم کا جائزہ لیں۔
- (20) سوال نمبر: ۴ اردو لٹریچر کے سلسلے میں مشرقین کی خدمات کیا تھیں؟ جائزہ لیں۔
- (20) سوال نمبر: ۵ میر تقی میر نے نظم گوں کو مصرع کہنے کا فن سکھایا ہے۔ دلائل بحث کریں۔
- (20) سوال نمبر: ۶ اقبال کی شاعری میں ترقی پسندی کے عوامل دکھائی دیتے ہیں۔ اس خیال کی روشنی میں دلائل بحث کریں۔
- (20) سوال نمبر: ۷ قرآن مجید کے ناول "پانڈی بیگم" کا تنقیدی جائزہ لیں۔
- (20) سوال نمبر: ۸ اردو تحقیق کی معیار بندی کے رجحانات یکساں کیوں نہیں ہیں؟ وضاحت کریں۔
- (20) سوال نمبر: ۹ مندرجہ ذیل میں سے کسی ایک پر نوٹ تحریر کریں۔
- ۱۔ اردو ادب پر تانبی تحریک کے اثرات
- ۲۔ نوٹ ولیم کان کا مقاصد / خدمات



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Roll Number

08-Nov-19

ZOOLOGY (MALE)

TIME ALLOWED: THREE HOURS
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-II: MAXIMUM MARKS: 80

- NOTE:**
- Question No. 1 is **COMPULSORY**. All questions carry equal marks.
 - All the parts (if any) of each Question must be attempted at one place instead of at different places.
 - Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
 - No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-I

Q-1 (A) Select the correct answer. (10)

- Volcanic eruptions could have resulted in an organism being buried and preserved in:
a) Magma b) Silt c) Amber d) Ash
- Retention of juvenile characters by the adult is called:
a) Paedomorphosis b) Regeneration c) Autotomy d) Metamorphosis
- Lac operon' in *E. Coli*, is induced by:
a) 'I' gene b) Promoter gene c) P-galactosidase d) Lactose
- Pyramid of _____ indicates the decrease of biomass in each trophic level from the base to the top.
a) Biomass b) Number c) Energy d) None of these
- Morphallaxis is:
a) Reconstruction of the whole body b) Growth of lost limb
c) Healing of injury d) Regeneration with the help of blastemal cells
- _____ is also known as bird continent.
a) Australian region b) Nearctic region c) Ethiopian region d) Neotropical region
- Limbless members of class reptilian belong to the sub order:
a) Amphisbaena b) Serpents c) Sauria d) Archosuria
- Location for the reactions of the urea cycle to occur:
a) Cytosol b) Mitochondria c) Endoplasmic reticulum d) Both a and b
- All of the following are thermostable polymerases except:
a) Taq polymerase b) Pfu polymerase
c) DNA polymerase III d) Vent polymerase
- _____ game reserve is there in Balochistan:
a) Shinwari b) Band Khushdil Khan c) Sheikh Badin d) Thanedar wala

(B) Fill in the blanks.

(05)

- _____ are the methods used for geochronological dating.
- _____ and _____ are the stop codons.
- Photo reactivation in Fungi is a type of DNA repair carried out by the enzyme _____.
- Transition zone between two or more diverse communities is _____.
- Larvae of cnidarians is called _____.

(C) Sketch and label the following:

(05)

- Coelomate body plan ii) Adenine iii) Alanine iv) Golgi apparatus
- Cladogram presenting evolutionary relationship of phylum Platyhelminthes



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
ZOOLOGY (MALE)

Roll Number

08-Nov-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80

NOTE:	i. Attempt FOUR questions from Part-II. All questions carry equal marks.
	ii. All the parts (if any) of each Question must be attempted at one place instead of at different places.
	iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
	iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-II

- Q-2 a) Explain the operon model of gene action with diagram. (06)
- b) Enlist the types of chromosomal and genetic mutations. Discuss chromosomal aberrations in detail. (14)
- Q-3 a) Define haematopoiesis? Explain the sites of erythropoiesis. (10)
- b) Diagrammatically explain the steps of primary neurulation, how does the neural tube form. (10)
- Q-4 a) Justify the statement, birds are glorified reptiles. (08)
- b) Write down the classification of Gnathostomata upto sub-class level with known examples. (12)
- Q-5 a) Why do island species and species with limited habitats are at the danger of extinction (10)
- b) Give a brief review of zoogeography of Pakistan. (10)
- Q-6 a) Write a detailed account of post transcriptional modifications. (10)
- b) Describe replication in prokaryotes focusing variety of DNA polymerases and other proteins involved. (10)
- Q-7 a) Discuss metamerism and tagmatization in Annelids. (08)
- b) Classify the sub phylum crustacea upto class level with distinguishing features. (12)
- Q-8 Write down notes on any TWO of the following: (10+10)
- Agricultural desalination
 - Forest and range management
 - Polymerase chain reaction

**BALUCHISTAN PUBLIC SERVICE COMMISSION**

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF

LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Roll Number

ECONOMICS (MALE/FEMALE)

07-Nov-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Question No. 1 is COMPULSORY . All questions carry equal marks ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-I**Q-1 (A) Select the correct answer. (15)**

- i) Which of the following is an implicit cost of a firm that produces a good or service.
 - a) Labour cost
 - b) Costs of operating production machinery
 - c) Forgone profits of producing goods and services
 - d) Cost of renting or buying land for production site
- ii) Which of the signals to the owners of scarce resources are the best uses of those resources.
 - a) Profit of Business
 - b) Government Regulations
 - c) Economic Indicators
 - d) The accounting cost of business
- iii) The basic incentive for new firm to enter an industry is:
 - a) Increased Technology
 - b) Labour supply
 - c) Low capital cost
 - d) Economic profit availability
- iv) Economic profits consist of:
 - a) Total revenue-Total cost
 - b) Marginal revenue-Marginal cost
 - c) Total revenue-Total opportunity cost
 - d) Total profits of the economy as a whole
- v) If price falls by 20% and as a result the quantity demanded raises by 100% then the price elasticity of demand is:
 - a) -1.0
 - b) -0.05
 - c) -5
 - d) None of the above
- vi) The economist who offer macroeconomics as a separate branch is:
 - a) Adam Smit
 - b) Milton Friedman
 - c) Hicks
 - d) Keynes
- vii) Great depression occurred in the USA in:
 - a) 1936
 - b) 2007
 - c) 1929
 - d) 2001
- viii) Which of the following tax is regressive:
 - a) Federal Income Tax
 - b) The States Income Tax
 - c) The Medicare Tax
 - d) Sales Tax
- ix) When Economics warded by Noble Prize:
 - a) 1901
 - b) 1969
 - c) 1945
 - d) 1968
- x) The agricultural price support program is an example of:
 - a) Price Ceiling
 - b) Price Floor
 - c) Equilibrium Pricing
 - d) Subsidies
- xi) The difference between Fiscal Deficit and Interest payment during a year is known as:
 - a) Fiscal Deficit
 - b) Budget Deficit
 - c) Primary Deficit
 - d) Revenue Deficit

P. T. O.

- xii) A 1% decrease in unemployment is associated with 2% points of additional growth in real GDP is called:
- a) Akums Law
b) Classical Theory
c) Consumer Price Index
d) None of these
- xiii) A person unemployed for the search of another job, this pause is called:
- a) Frictional Unemployment
b) Structural Unemployment
c) Seasonal Unemployment
d) Under employment
- xiv) Data are important in economics because:
- a) They suggest relationship for analysis
b) They can be graphed and use of tables
c) They can be used in computers
d) Allow to testify the hypothesis
- xv) An increase in consumer income will increase demand for a _____ but decrease a demand for _____.
- a) Substitute good, inferior good
b) Normal goods, inferior goods
c) Inferior good, normal good
d) Normal good, complementary good

(B) Differentiate between the Following.

(05)

- i) Progressive & Digressive Tax
- ii) Intensive agriculture & Extensive agriculture
- iii) Balance of trade & Balance of payment
- iv) Rural development & Agricultural development
- v) Negative price & shadow price

**BALUCHISTAN PUBLIC SERVICE COMMISSION**

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF

LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Roll Number

ECONOMICS (MALE/FEMALE)

07-Nov-19

TIME ALLOWED: THREE HOURS**PART-I (OBJECTIVE): MAXIMUM 30 MINUTES****PART-I (OBJECTIVE): MAXIMUM MARKS: 20****PART-II: MAXIMUM MARKS: 80**

- NOTE:**
- Attempt **FOUR** questions from Part-II. All questions carry equal marks.
 - All the parts (if any) of each Question must be attempted at one place instead of at different places.
 - Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
 - No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-II

- Q-2** Define Economics in the words of Robbins and make a detailed criticism on his definition. (20)
- Q-3** Make a cost curve of a representative firm:
- Sketch a graph of the "Average Variable Cost Curve", "Average Total Cost Curve", "Marginal Cost Curve" (10)
 - Label the shutdown and breakeven point, explain why these are the firm's shutdown and breakeven points. (10)
- Q-4**
- What is meant by investment multiplier and on what factors it depends? Explain its role in determination of the level of national income. (15)
 - Explain the main causes of fragmentation of land in Pakistan. (05)
- Q-5** Explain the effects of the following factors on the value of money. (20)
- Increase in the volume of bank credit
 - Decrease in the liquidity preference
 - Excess of investment over saving
- Q-6**
- What is meant by "Functional Finance"? discuss its usefulness in the formation of Fiscal Policy in a developing economy. (15)
 - How Pakistan can turn its human resources into human capital? Suggest. (05)
- Q-7**
- Calculate the mode from the following distribution. (10)
- | Classes | 0-7 | 7-14 | 14-21 | 21-28 | 28-35 | 35-42 | 42-49 |
|-----------|-----|------|-------|-------|-------|-------|-------|
| Frequency | 19 | 25 | 36 | 72 | 51 | 43 | 28 |
- Find equilibrium price and equilibrium quantity. (10)
 - $Q_d = 20 - 5p$
 - $Q_s = 4 + 3p$
- Q-8** Examine the relative roles of taxation, borrowing and deficit financing in promoting economic development of a country. (20)



BALUCHISTAN PUBLIC SERVICE COMMISSION

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF

LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

MICROBIOLOGY (MALE/FEMALE)

Roll Number

07-Nov-19

TIME ALLOWED: THREE HOURS

PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20

PART-II: MAXIMUM MARKS: 80

NOTE:

- i. Attempt **FOUR** questions from Part-II. All questions carry equal marks.
- ii. All the parts (if any) of each Question must be attempted at one place instead of at different places.
- iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
- iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-II

- Q-2 All the living things are composed of cells. Differentiate between the cellular structure of prokaryotic cells and eukaryotic cells. Explain in detail the external structures of bacteria including pili, fimbriae and flagella. (20)
- Q-3 a) Write a detail note on viruses and their structure. (10)
- b) Explain the different methods of viral multiplication in detail. (10)
- Q-4 a) What is a culture media? Define the chemical and physical types of culture media. (10)
- b) Define the mechanism of action of blood agar and mannitol salt agar. (10)
- Q-5 The microorganisms may be pathogenic; to control the infection caused by different microbes, antibacterial drugs are used. Write a detail note on different types of antibacterial drugs with their mechanism of action. (20)
- Q-6 Some microorganisms are involved in food spoilage. Explain in detail the different methods of controlling food spoilage. (20)
- Q-7 Describe the growth curve. What are the different phases during the population growth of microorganisms? (20)
- Q-8 Define the following terminologies in detail: (4x5)
- i) Probiotics
 - ii) Facilitated diffusion
 - iii) Antibiotic resistance
 - iv) Toxins



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
CHEMISTRY (MALE/FEMALE)

Roll Number

06-Nov-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Attempt <u>FOUR</u> questions from Part-II. All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-II

- Q-2 Discuss the molecular orbital theory for coordination complexes. (20)
- Q-3 a) What is second order reaction? Discuss the kinetics of second order reaction when the initial concentration of the reactants are same. (10)
- b) Derive the expression for the half-life of second order reaction. (05)
- c) Deduce the units of second order reaction. (05)
- Q-4 Explain the basic principle and electronic transitions in UV-Visible spectroscopy. (20)
- Q-5 a) Write down the classification of carbohydrates. (10)
- b) Explain the tertiary structure of Protein. (10)
- Q-6 Explain the parameters involved in the reactivity of S_N1 and S_N2 reactions. (20)
- Q-7 a) Explain the Carnot cycle in terms of different stages. (10)
- b) Explain E1 and E2 mechanisms. Draw the energy profile with examples. (10)
- Q-8 Write down notes on any TWO of the following: (10+10)
- Steric effect or Steric hindrance
 - Greenhouse effect
 - Properties of actinides



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Roll Number

05-Nov-19

POLITICAL SCIENCE (MALE/FEMALE)

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Question No. 1 is COMPULSORY . All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-I

Q-1 (A) Select the correct answer. (10)

- i) Plato divided the human soul into three parts:
a) Parents, adult and child b) Wisdom, knowledge and emotion
c) Knowledge, courage and wisdom d) Reason, spirit and appetite
- ii) The book "The Prince" is written by:
a) Plato b) Aristotle c) Hegel d) Machiavelli
- iii) Name the Muslim philosopher who is known as "Second Teacher" with Aristotle as the First:
a) Ibn Khaldun b) Al-Mawardi c) Al-Farabi d) Al-Ghazali
- iv) The tenure of the Turkish president is:
a) 4 years b) 5 years c) 6 years d) 7 years
- v) The Supreme Leader of Iran is elected by the:
a) Guardian Council b) Majlis c) Assembly of experts d) None of these
- vi) Who commented that the Cripps Mission was a post-dated cheque on a crashing bank?
a) M. K. Gandhi b) Jawaharlal Nehru c) Sardar Patel d) Abul Kalam Azad
- vii) Pakistan joined United Nations on:
a) 15, September 1947 b) 19, September 1947 c) 27, September 1947 d) 30, September 1947
- viii) The power of removal of judges in Pakistan lies in:
a) Supreme Judicial Council b) The Supreme Court
c) The Parliament d) None of these
- ix) Who delivered the "Iron Curtain" speech?
a) Franklin Roosevelt b) Winston Churchill c) Joseph Stalin d) None of These
- x) The lower house of British Parliament is called:
a) House of Representatives b) House of Lords
c) Privy Council d) None of These

(B) Fill in the blanks. (05)

- i) "Muqaddimah" is written by _____.
- ii) The founder father of Communist China was _____.
- iii) NATO Stands for _____.
- iv) Article _____ of Indian Constitution gives autonomous status to the state of Jammu & Kashmir.
- v) In Pakistan Islam declared as state religion under the constitution of _____.

(C) Define the Following: (05)

- i) Aristocracy ii) Fascism iii) Diplomacy iv) Senatorial Courtesy v) Prize Court



BALUCHISTAN PUBLIC SERVICE COMMISSION
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LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
POLITICAL SCIENCE (MALE/FEMALE)

Roll Number

05-Nov-19

TIME ALLOWED: THREE HOURS

PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20

PART-II: MAXIMUM MARKS: 80

- NOTE:**
- Attempt **FOUR** questions from Part-II. All questions carry equal marks.
 - All the parts (if any) of each Question must be attempted at one place instead of at different places.
 - Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
 - No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-II

- Q-2 Examine the various aspects of Platonic thinking in "The Republic". (20)
- Q-3 Explain several strategies that Interest Groups use. Can they bypass democracy? (20)
- Q-4 Evaluate the charge that the US presidency has become too powerful. In what ways the British Prime Minister is less influential than the US President? (20)
- Q-5 Describe the power and functions of National Assembly under the Constitution of 1973. (20)
- Q-6 Define International Law. What are the sources of International Law? (20)
- Q-7 "Kashmir dispute seen as an anticipated threat fuelling a nuclear war between Pakistan and India". Comment analytically. (20)
- Q-8 Write down notes on any TWO of the following: (10+10)
- Cabinet Mission Plan 1946
 - Causes of Soviet Disintegration
 - Capitalism vs Marxism
 - Al-Farabi's Ideal Head of State



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Roll Number

01-Nov-19

ISLAMIAT (MALE)

TIME ALLOWED: THREE HOURS
 PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20
 PART-II: MAXIMUM MARKS: 80

NOTE: v. Question No. 1 is **COMPULSORY**. All questions carry equal marks.
 vi. All the parts (if any) of each Question must be attempted at one place instead of at different places.
 vii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
 viii. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-I

(10)

سوال نمبر: ۱ الف - درست جواب کا انتخاب کیجئے:

1. وہ کلام ہے سن کر اہل زبان وہی معنی سمجھ لے جس کے لیے روایا کیا جاتے ہیں؟
 ا: مفسر ب: محکم ج: مفسر د: مفسر
2. تفسیر نور القرآن میں ترجمہ قرآن کس کا دیوا ہے؟
 ا: مولانا محمود حسن ب: حسین احمد دہلوی ج: شبیر احمد حقانی د: شبیر احمد حقانی
3. لغت میں بقیۃ النبی کیا کہتے ہیں؟
 ا: حدیث ب: اثر ج: اثر د: اثر
4. مستند الہند کس مشہور محدث کا لقب ہے؟
 ا: شاہ ولی اللہ ب: شاہ عبدالعزیز ج: ابو رشاد کاشمیری د: ابو رشاد کاشمیری
5. حضرت سرہین صاحبہ کا مجموعہ حدیث کس نام سے معروف ہے؟
 ا: الصدوق ب: لؤمیر ج: لؤمیر د: لؤمیر
6. جو نقطہ اپنے معنی و دلالت کریں اسے کیا کہتے ہیں؟
 ا: مہاراجا ب: دلائل انص ج: انکشافات د: انکشافات
7. فرزند سود کس سن جبری میں واقع ہوئی؟
 ا: ۸ ب: ۱۰ ج: ۱۲ د: ۱۲
8. وہ دھرم جو بڑی تک پہنچ کر اس کی سفید کھول دے اسے کیا کہتے ہیں؟
 ا: موضوع ب: ناموس ج: جالند د: جالند
9. اسلام کو جاہلیت کے تمام اہتمام سے چھٹ کر الگ کرنے کو کیا کہتے ہیں؟
 ا: اجتہاد ب: تہجد ج: تہجد د: تہجد
10. ام السائکین کس کا لقب تھا؟
 ا: حضرت سوز ب: حضرت زینب ج: حضرت عائشہ د: حضرت عائشہ

(05)

ب۔ خالی جگہوں کو مناسب الفاظ سے پُر کریں:

1. قرآن کریم کی موجودہ ترتیب _____ ہے۔
2. آنحضرت ﷺ کو دودھ پلانے والی اہلبی کی والدہ کردہ کیز کا نام _____ ہے۔
3. عکک کے موقع پر مسلمانوں نے مکہ سے ایک منزل دوسرے _____ میں منزل کی۔
4. اسلام اور _____ دو جڑواں بہائی ہیں (الحمد)
5. مزدت کا مترادف لفظ _____ ہے۔

(05)

ج۔ لفظ واضح کریں۔

- ۱۔ من اور لیت ۲۔ دین اور قرین ۳۔ لفظ اور لفظ ۴۔ شرک اور تہجد ۵۔ ہائل اور ہائل



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
ISLAMIAT (MALE)

Roll Number

04-Nov-19

TIME ALLOWED: THREE HOURS
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-II: MAXIMUM MARKS: 80

NOTE: v. Attempt FOUR questions from Part-II. All questions carry equal marks.
vi. All the parts (If any) of each Question must be attempted at one place instead of at different places.
vii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
viii. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-II

- (20) سوال نمبر: ۲ علوم القرآن کا مفہوم واضح کرتے ہوئے طم بائن و منسوب باہما مع لوٹ لکھیں۔
- (20) سوال نمبر: ۳ خصائص نبوی ﷺ کے ہرے میں آپ کیا جانتے ہیں؟ مفہوم بیان کرتے ہوئے قرآن و حدیث کی روشنی میں اہم خصائص نبوی ﷺ بیان کریں۔
- (20) سوال نمبر: ۴ ریاست مدینہ پہلی اسلامی ریاست تھی، اس ریاست کے اہم خدوخل بیان کریں۔
- (20) سوال نمبر: ۵ فقہی مسائل کے اعتبار میں علماء کا اختلاف ایک فقہی ماسر ہے۔ اس کو نوٹھ نظر رکھتے ہوئے فقہی اختلافات کے اہم اسباب پر تفصیل سے روشنی ڈالیں۔
- (20) سوال نمبر: ۶ آپ کی نظر میں مصرع حاضر میں پاکستان کو کون کون سے اہم معاشی مسائل درپیش ہیں؟ ان کی نظامی کرتے ہوئے اسلامی تعلیمات کی روشنی میں واضح حل پیش کریں۔
- (20) سوال نمبر: ۷ مکالمہ بین المذاہب کا مفہوم واضح کرتے ہوئے اسلامی تعلیمات کی روشنی میں اس کے اہم اصول زیر بحث لائیں۔
- (20) سوال نمبر: ۸ اسلام نے سکرانوں کی نفاذی اور اہم ذمہ داریوں کو کس طرح واضح کیا ہے؟ تفصیلی نوٹ تحریر کریں۔



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
SOCIOLOGY (MALE)

Roll Number

31-Oct-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Question No. 1 is COMPULSORY . All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-I

Q-1 (A) Select the correct answer. (10)

- i) Population density means:
 - a) Population per square meter
 - b) Population per square yard
 - c) Population per square kilometre
 - d) Population per square mile
- ii) The "Mafia" is an example of:
 - a) White-collar crime
 - b) Organized crime
 - c) Non-criminal deviance
 - d) Global terrorism
- iii) Third Population Census of Pakistan was conducted in:
 - a) 1970
 - b) 1971
 - c) 1972
 - d) 1973
- iv) The four types of social actions described by Weber are:
 - a) Instrumentally rational, affectual, effective values, traditions
 - b) Values, rationalism, effectiveness, traditions
 - c) Instrumentally rational, effective traditions, values, rational
 - d) None of the above
- v) Post-Modernist writers believes:
 - a) We live in superficial, fragmented images
 - b) No theory is better than other
 - c) Society is changing day by day
 - d) All of the above
- vi) Domhoff considered which of following not as a process of decision-making:
 - a) The ideology process
 - b) The exploitation process
 - c) The policy-formation process
 - d) Interaction process
- vii) An open society is one that:
 - a) Grants every member equal status
 - b) Has permissive attitude towards sexual behaviour
 - c) Allow people to move between level of hierarchy
 - d) All of the above
- viii) Identification of actual problem can be done by the help of:
 - a) Survey techniques
 - b) Target population
 - c) Pretesting of question
 - d) All of these
- ix) The term "Secondary deviation refers to:
 - a) Stigmatization of acts of deviancy
 - b) The labelling of an act as deviant through social interaction
 - c) The way deviant act affects future action
 - d) All of the above
- x) Flick's Law describes concept of:
 - a) Division of Force
 - b) Diffusion
 - c) Total Institution
 - d) None of these

(B) Fill in the blanks.

(05)

- i) _____ is founder of the concept of Bureaucracy.
- ii) _____ is a form of power.
- iii) Religion is Unified System of _____ and _____.
- iv) Society is a product of _____ among the individual.
- v) Aggregate of people having particular geographical locality & common culture is known as _____.

(C) Differentiate between the following.

(05)

- i) Mob & Public
- ii) Panic and Riot
- iii) Cultural complex and Cultural traits
- iv) Cultural Variability and Cultural Relativism
- v) Acculturation and Amalgamation



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

SOCIOLOGY (MALE)

Roll Number

31-Oct-19

TIME ALLOWED: THREE HOURS

PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20

PART-II: MAXIMUM MARKS: 80

NOTE:

- Attempt **FOUR** questions from Part-II. All questions carry equal marks.
- All the parts (if any) of each Question must be attempted at one place instead of at different places.
- Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
- No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-II

- Q-2** Discuss "Sociology as Science of Society" with proper arguments that can explain Sociology as a scientific subject. (20)
- Q-3** Discuss any Sociological theory with its practical importance with example. (20)
- Q-4** Discuss Terrorism as a major social problem. (20)
- Q-5** Social stratification refers to arrangement of any social group or society. Explain. (20)
- Q-6** Competitive completion and conflict is necessary for social progress. Do you agree or not? Defend your point of view with arguments. (20)
- Q-7** Discuss Sociological Research Methods also describe major type of Research Methods. (20)
- Q-8** Describe the ethnography and ethno-methodological approach in detail. (20)



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Roll Number

30-Oct-19

ZOOLOGY (FEMALE)

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Question No. 1 is COMPULSORY . All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-I

Q-1 (A) Select the correct answer. (10)

- An organism often used as an index fossil is a:
a) Horse b) Trilobite c) Tulip d) Teacher
- All of the following are storage polysaccharides except:
a) Cellulose b) Starch c) Glycogen d) Dextran
- The enzyme photolyase is used in ____ method of genome repair:
a) Base excision b) Photo reactivation c) Nucleotide excision d) None of these
- In *E. coli*, during lactose metabolism repressor binds to:
a) Regulator gene b) Operator gene c) Structural gene d) Promoter gene
- The special type of predation in which the predator and prey are from the same species is called:
a) Mutualism b) Predation c) Competition d) Cannibalism
- The vertebrate lungs are derived from:
a) Ectoderm b) Mesoderm c) Endoderm d) Notochord
- All reptiles have 3 chambered heart except members of order:
a) Crocodilia b) Testudines c) Squamata d) Serpentes
- A stop codon in DNA is introduced by ____ mutation.
a) Non sense b) Silent c) Missense d) Translocation
- Plate tectonic is the scientific mechanism of:
a) Continental drift theory b) Land bridge theory
c) Theory of permanence d) Barrier theory
- Which of the following is most likely a cosmopolitan species:
a) Ostriches b) Crows c) Penguins d) Humpback whale

(B) Fill in the blanks. (05)

- _____ most commonly used groups of microfossils in petroleum exploration.
- Change in gene sequence of the chromosome following breakage and reunion of the segment of chromosome is _____.
- Macrophytes and phytoplanktons are consumers of _____ ecosystem.
- Segmental arrangement of body parts in an animal is called _____.
- Negative charge of DNA is due to its _____.

(C) Sketch and label the following: (05)

- Types of feathers in birds
- Glycine
- Guanine
- Amniotic egg



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
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IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Roll Number

30-Oct-19

ZOOLOGY (FEMALE)

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Attempt FOUR questions from Part-II. All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-II

- Q-2** a) Define transposons and briefly describe the types of transposons with examples. (10)
- b) Define Linkage? What is the relationship between linkage and recombination. (10)
- Q-3** a) Discuss the stem cells and its types in detail. (10)
- b) How do the sheets of cells move during gastrulation explain diagrammatically? (10)
- Q-4** a) Discuss the process of gaseous exchange and temperature regulation in amphibians. (10)
- b) Describe diversity in mammals and enlist the classification of mammals upto order level. (10)
- Q-5** a) Define Game reserve and describe important Game reserves of Balochistan. (10)
- b) Give an account of plate tectonic theory. (10)
- Q-6** a) Describe the role of ribosomes and endoplasmic reticulum in post translational processing. (10)
- b) Enlighten the role of microtubules, microfilaments and Intermediate filaments in cytoskeleton of cell. (10)
- Q-7** a) Discuss the phylogenetic consideration of Phylum Cnidaria. (08)
- b) Describe the diversity and adaptive features of Phylum Mollusca that contribute its success and classify the phylum Mollusca up to class level. (12)
- Q-8** Write down notes on any TWO of the following: (10+10)
- Pathway of amino acid degradation
 - Oxidative phosphorylation and oxidation of fatty acids
 - DNA sequencing and its significance



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
SOCIOLOGY (FEMALE)

Roll Number

29-Oct-19

TIME ALLOWED: THREE HOURS
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-II: MAXIMUM MARKS: 80

NOTE: v. Attempt **FOUR** questions from Part-II. All questions carry equal marks.
vi. All the parts (if any) of each Question must be attempted at **one place** instead of at **different places**.
vii. Candidate must write **Q. No. In the Answer Book** in accordance with **Q. No. in the Q. Paper**.
viii. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-II

- Q-2** Describe origin and development of sociology in detail, also discuss practical importance of sociology. (20)
- Q-3** What do you know about perspective? Discuss major theoretical perspective in detail. (20)
- Q-4** What is deviant behaviour? Also explain how we can reduce the problem of deviancy by the help of social control. (20)
- Q-5** What is Social research? Discuss major types of social research. (20)
- Q-6** What do you know about propaganda? Also explain role of propaganda in forming public opinion. (20)
- Q-7** Conflict cause serious threat to social stability. Discuss in detail. (20)
- Q-8** Culture play vital role in forming & transforming behaviour by help of social values. Explain. (20)



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
SOCIOLOGY (FEMALE)

Roll Number

29-Oct-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: v. Question No. 1 is COMPULSORY . All questions carry equal marks. vi. All the parts (if any) of each Question must be attempted at one place instead of at different places. vii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. viii. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-I

Q-1 (A) Select the correct answer. (10)

- i) In 1998 census, literacy rate of Pakistan was:
a) 45% b) 55% c) 50% d) 35%
- ii) Social problem is a condition which people do not like & want to get rid of through collective effort:
a) Durkheim b) Max Weber c) Sumner d) Horton & Hunt
- iii) Population density of Balochistan Province is:
a) 18 persons b) 81 persons c) 67 persons d) 220 persons
- iv) Which of the following is not having Research purpose:
a) Triangulation b) Explanation c) Description d) Exploration
- v) A survey do not ask:
a) Fixed choice questions b) Short questions
c) Leading questions d) Funnelled questions
- vi) Pre-testing is useful for:
a) Find out important respondent b) Texting research techniques
c) Getting idea of research target population d) Identify problems with questions
- vii) Population welfare programme was implemented in:
a) 1980 b) 1981 c) 1982 d) 1983
- viii) Structural functionalist describe society as:
a) Complex network of interaction at micro level b) A source of conflict
c) Unstable structure of social relation d) A normative frame of rules & institution
- ix) The rise of new social movement indicates that:
a) People rate according to pragmatic issues & concerns
b) Individual identities are important then class identity
c) Personal, cultural & environmental issues can mobilise political consciousness
d) All of these
- x) Persons argued that function of modern families were:
a) Secondary socialization & strict discipline
b) Emotional support & gratification
c) Primary socialization & personality stability.
d) Oppressing women & reproducing the labour force

(B) Fill in the blanks.

(05)

- i) Social values that are in written form called _____.
- ii) Pattern of behaviour that is rigid in nature is called _____.
- iii) _____ is known as web of social relationship.
- iv) _____ is man-made environment.
- v) Social conditioning is a part of _____ process.

(C) Differentiate between the following.

(05)

- i) Fed & Fashion ii) Riots & Rumours iii) Mores & Laws
- iv) Qualitative & quantitative research methods v) Structural & functionalism

**BALUCHISTAN PUBLIC SERVICE COMMISSION**

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF

LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

MATHEMATICS (MALE/FEMALE)

Roll Number

28-Oct-19

TIME ALLOWED: THREE HOURS**PART-I (OBJECTIVE): MAXIMUM 30 MINUTES****PART-I (OBJECTIVE): MAXIMUM MARKS: 20****PART-II: MAXIMUM MARKS: 80**

- NOTE:**
- Attempt **FOUR** questions from Part-II. All questions carry equal marks.
 - Use of a scientific calculator is allowed.
 - All the parts (if any) of each Question must be attempted at one place instead of at different places.
 - Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
 - No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-II

- Q-2 a)** Applying the Lagrangian Formulism obtain the equation of motion for a single particle in plane polar coordinates. (10)

OR

Find a QR factorization of

$$A = \begin{bmatrix} 1 & 0 & 0 \\ 1 & 1 & 0 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$$

- b)** Find the extreme values of the function $f(x)$ by the second derivative test. (10)
Where $f(x) = x^4 - x^2$:

- Q-3 a)** Show that if f is analytic within and on a simple closed contour C and z_0 is not on C . (10)
Then

$$\int_C \frac{f'(z)}{z - z_0} dz = \int_C \frac{f(z)}{(z - z_0)^2} dz$$

- b)** Write the curve represented by the following equation in rectangular coordinate system (10)

$$r = a \sin \theta, \quad a > 0.$$

- Q-4 a)** Let a and b be the two vectors (10)

$$a = 2\hat{i} + 3\hat{j} - \hat{k} \quad \text{and} \quad b = \hat{i} - \hat{j} + 2\hat{k}$$

Find the projection of a on b and the projection of b on a .

- b)** Solve the following second order differential equation (with y absent). (10)

$$y'' = 2x(y')^2.$$

- Q-5 a)** Compute the curvature and torsion of the following curve (10)

$$\alpha(t) = (3t - t^3, 3t^2, 3t + t^3).$$

OR

If X and Y are two topological spaces, and if $X \sim Y$ means that X and Y are homeomorphic. Then show that this \sim relation is reflexive, symmetric, and transitive.

- b)** Find an equation defining the subspace W of R^3 spanned by (10)

$$V_1 = (1, -3, 2), \quad V_2 = (-2, 1, 2), \quad V_3 = (-3, -1, 6).$$

P. T. O.

Q-6 a) Given the data

x	0	1	2	4	6
$f(x)$	1	5	11	20	30

Interpolate the function $f(x)$ at $x = 4.2$.

b) Find the general solution of the Laplace equation

$$\nabla^2 u = u_{rr} + \frac{1}{r} u_r + \frac{1}{r^2} u_{\theta\theta} + u_{zz} = 0$$

In cylindrical coordinate system.

Q-7 a) If G is a finite abelian group whose order is divisible by a prime p , then G contains an element of order p .

OR

Show that every finite dimensional subspace Y of a normed space X is complete.

b) Evaluate the following

I) $\int \frac{1}{(x^2-1)\sqrt{x^2+1}} dx.$

II) $\lim_{x \rightarrow 0} \frac{(1+x)^{1/x} - e}{x}.$

Q-8 Attempt any two of the following:

i) If f is bounded and integrable on $[a, b]$ and $|f|$ is also bounded and integrable on $[a, b]$ then show that

$$\left| \int_a^b f(x) dx \right| \leq \int_a^b |f(x)| dx$$

ii) Discuss the continuity and differentiability of the function

$$f(x) = |x-1| + |x-2|$$

In the interval $[0, 3]$.

iii) Using the rules of the covariant derivatives of contravariant, covariant and mixed vectors, show that

$$A_{j;k}^i = \frac{\partial A_j^i}{\partial x^k} + \Gamma_{kl}^i A_j^l - \Gamma_{kj}^l A_l^i$$



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
MATHEMATICS (MALE/FEMALE)

Roll Number

28-Oct-19

TIME ALLOWED: THREE HOURS
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-II: MAXIMUM MARKS: 80

NOTE: i. Question No. 1 is **COMPULSORY**. All questions carry equal marks.
ii. All the parts (if any) of each Question must be attempted at one place instead of at different places.
iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-I

Q-1 (A) Select the correct answer. (10)

i) Let $A = [a_{ij}]$ be a square matrix of order n and $a_{ij} = 0$ for all $i \neq j$, while $a_{ij} = 2$ for all $i = j$, then the matrix is called:

- a) Upper triangular matrix b) Skew-symmetric matrix
c) Scalar matrix d) Lower triangular matrix

ii) For two square matrices of same order $(A^{-1}B)^{-1}$ is equal to:

- a) AB^{-1} b) $A^{-1}B^{-1}$ c) $B^{-1}A^{-1}$ d) $B^{-1}A$

iii) A linear equation of the form $ax + by + cz + d = 0$ is called homogeneous when:

- a) a, b, c, d all are zero b) a and c are zero
c) b is zero d) d is zero

iv) Which of the following statement is false:

- a) The medians of a triangle are concurrent.
b) The diagonals of a parallelogram are parallel to each other.
c) The midpoint of the hypotenuse of a right triangle is equidistant from its vertices.
d) The line segment joining the midpoints of two sides of a triangle is parallel to the third side.

v) If the three vectors $\hat{i} + \lambda\hat{j} - \hat{k}$, $3\hat{i} + 2\hat{j} + 2\hat{k}$ and $\hat{i} + \hat{j} - \hat{k}$ are coplanar then λ is:

- a) 0 b) 1 c) 2 d) 3

vi) The real valued function $f(x) = |x - 1|$ defined in the interval $[0, 2]$ is:

- a) Both continuous and differentiable throughout the interval
b) Continuous but not differentiable throughout the interval
c) Differentiable but not continuous throughout the interval
d) Both non-continuous and non-differentiable throughout the interval

vii) The period of the function $f(x) = 2\cos(4x)$ is:

- a) 4π b) π c) $\frac{\pi}{2}$ d) $\frac{\pi}{4}$

viii) The function $f(x) = x^3$ is increasing for:

- a) all $x > 0$ b) all $x < 0$
c) all $x > -1$ d) all real numbers

ix) The area of a triangular region whose vertices are $(1, 2)$, $(2, 3)$ and $(3, 5)$ is:

- a) 2 b) 1 c) $\frac{1}{2}$ d) $\frac{1}{3}$

P. T. O.

- x) The set of all points, the sum of whose distances from two fixed points is a fixed positive constant is called:
 a) Circle b) Parabola c) Ellipse d) Hyperbola
- xi) Let $y = 2^x$, then $\frac{dy}{dx}$ is:
 a) 2^{x-1} b) 2^{x+1} c) $2^x \ln(x)$ d) $2^x \ln(2)$
- xii) Let $f(x)$ be a real valued continuous and differentiable function in an interval $[a, b]$ with $f(a) \neq f(b)$ and let $c \in (a, b)$ be an extreme value of $f(x)$, i.e. $f'(c) = 0$, then which of the following statement is true:
 "The tangent to the curve of the function $f(x)$ at $x = c$ is"
 a) Parallel to y - axis
 b) Parallel to x - axis
 c) Parallel to the secant line through $(a, f(a))$ and $(b, f(b))$
 d) None of above
- xiii) Let e be the eccentricity of a conic section then for $e > 1$ the conic section is a:
 a) Circle b) Parabola c) Ellipse d) Hyperbola
- xiv) The partial differential equation $\frac{\partial T}{\partial t} = \alpha \frac{\partial^2 T}{\partial x^2}$ is a:
 a) Parabolic partial differential equation
 b) Hyperbolic partial differential equation
 c) Elliptic partial differential equation
 d) Laplace equation
- xv) The Laplace transform of the function $f(t) = e^{-at}$ is:
 a) $\frac{1}{s-a}$ b) $\frac{1}{s+a}$ c) $\frac{1}{s^2-a^2}$ d) $\frac{1}{s^2+a^2}$
- xvi) The basis vectors $(1, 0), (0, 1)$ span:
 a) The entire real line b) The entire xy - plane
 c) The entire xyz - cube d) None of the a, b and c.
- xvii) A set of n quantities A^i , which transform as $(A')^i = \frac{\partial (x')^i}{\partial x^j} A^j$, $i, j = 1, 2, \dots, n$ are called:
 a) Components of contravariant tensor b) Scalars
 c) Components of covariant tensor d) None of a, b and c
- xviii) Let $p = \frac{dy}{dx}$ then a differential equation of the form $y = xp + f(p)$ is called
 a) Homogeneous equation b) Clairaut's equation
 c) Exact equation d) Riccati equation
- xix) A matrix of order $1 \times n$ is called:
 a) Rectangular matrix b) Row vector
 c) Column vector d) Identity matrix
- xx) If the inverse of a square matrix does not exist, then its determinant is:
 a) -1 b) 0 c) 1 d) ∞



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Roll Number

25-Oct-19

PHYSICS (MALE/FEMALE)

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Question No. 1 is COMPULSORY . All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-I

Q-1 (A) Select the correct answer. (10)

- i) The enhancement type MOSFET works only with:
a) large positive gate voltage
b) large negative gate voltage
c) large positive drain voltage
d) large negative drain voltage
- ii) The electronic polarizability of monoatomic gas atoms is:
a) Proportional to temperature
b) Proportional to pressure of gas
c) Proportional to radius of atoms of gas
d) Proportional to mass of gas
- iii) The parallel axis theorem has the form:
a) $I_{cm} + MH$
b) $I_{cm} + M^2H$
c) $I_{cm} + MH^2$
d) None of these
- iv) The half-life of a radioactive isotope is 140 days. In how many days does the decay rate of a sample of this isotope decrease to one-fourth of its initial decay rate:
a) 105 days
b) 280 days
c) 35 days
d) None of these
- v) Depletion region is formed by:
a) Diffusion
b) Recombination
c) Ionization
d) All of these
- vi) Hall effect is used to:
a) Determine type of charge carriers
b) Determine magnetic flux density
c) differentiate between metal and semiconductors
d) All of these
- vii) Which one of the following is NOT needed in Nuclear Fission reactor:
a) Fuel
b) Accelerator
c) Moderator
d) None of these
- viii) If the length, width and separation between the plates of a parallel plate capacitor is doubled then its capacitance becomes:
a) Double
b) Four-times
c) Half
d) Eight-times
- ix) Energy radiation absorbed at the rate of one joule per kilogram is called:
a) 1 Rad
b) 1 Curie
c) 1 Sievert
d) 1 Gray
- x) A Fahrenheit thermometer and Celsius thermometer show the same reading at
a) 200 degrees
b) -40 degrees
c) 100 degrees
d) None of these

**BALUCHISTAN PUBLIC SERVICE COMMISSION**

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF

LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

PHYSICS (MALE/FEMALE)

Roll Number

25-Oct-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Attempt FOUR questions from Part-II. All questions carry equal marks. ii. The use of a scientific calculator is allowed. iii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iv. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. v. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-II

- Q-2 a) Explain the Divergence of a vector field with its physical significance. (06)
- b) What is line Integral? Under what condition it is used to calculate the work done. (06)
- c) Consider three vectors: (08)
- $$\vec{A} = -3\hat{i} + 3\hat{j} + 2\hat{k} \quad \vec{B} = -2\hat{i} - 4\hat{j} + 2\hat{k} \quad \text{and} \quad \vec{C} = 2\hat{i} + 3\hat{j} + 2\hat{k}$$
- Find (i) $\vec{A} \cdot (\vec{B} \times \vec{C})$ and (ii) $\vec{A} \times (\vec{B} \times \vec{C})$
- Q-3 a) What do you mean by phase velocity and group velocity? Derive a relation between a group and phase velocity. (06)
- b) What do you understand by nuclear fission? How was it explained theoretically based on liquid drop model? (08)
- c) Explain construction and working of a Geiger Muller Counter. (06)
- Q-4 a) What is 'L-S' and 'j-j' coupling? How can we show a configuration given with j-j coupling in LS coupling or vice-versa? (10)
- b) Both the Bohr's and Schrodinger theories of hydrogen atom predict the same ground-state energy. Do they agree about the angular momentum in the ground state? Explain. (10)
- Q-5 a) Derive equation of Lorentz velocity transformations and show that speed of light is independent of the relative motion between the frames of reference. (07)
- b) Discuss various quantum numbers to describe the complete behavior of an electron in an orbital. (06)
- c) Describe Maxwell's equations in differential and tensor notation. (07)
- Q-6 a) Differentiate between Fermi-Dirac, Bose-Einstein and Maxwell-Boltzman statistics. (07)
- b) Show that the entropy remains constant in a reversible process but increases in an irreversible one. (06)
- c) How slowly must an electron be moving for its de-Broglie wavelength equal to 1mm? (07)
- Q-7 a) Quantum mechanically calculate the mean energy of one dimensional simple harmonic oscillator. Show that at higher temperature mean energy of quantized oscillator is similar to classical oscillator and use this result to derive Dulong-Petit Law. (10)
- b) What are Phonons? Explain Normal and Umklapp process of Phono-Phonon Interaction. Discuss the role of these interactions in thermal resistance of pure crystals? What other factors influence the thermal resistance of crystals? (10)

P. T. O.

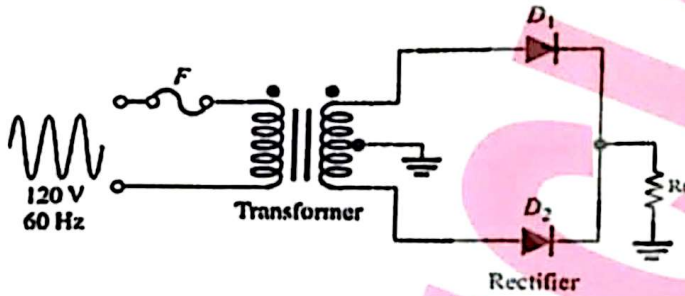
Q-8

a) Voltage across primary coil of center tapped transformer 120 V as shown in figure. If the number of turns in secondary are half of the number of turns in primary.

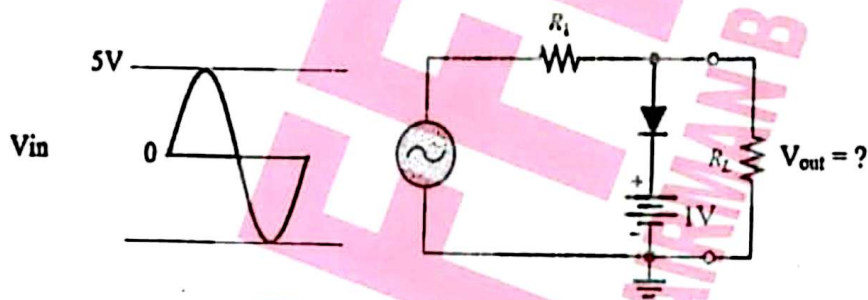
(i) What will be the value of PIV across non conducting diode? (Consider D2 is not conducting) (05)

(ii) What will be the voltage across load resistor? (05)

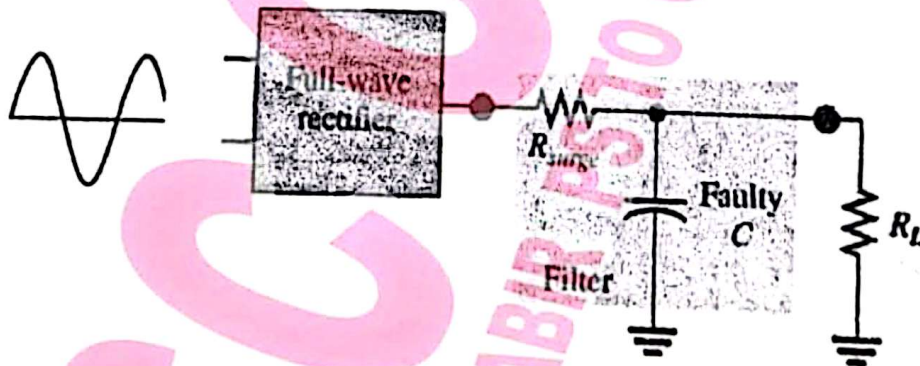
Note: Solve both parts for practical diode mode



b) i) Name the circuit given below and draw out put wave shape with positive and negative peak values. Consider the diode as practical diode model (05)



ii) Consider a full wave rectifier with AC input signal. If the capacitor C is faulty and becomes short. What will be shape of output signal? (05)





BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
GEOGRAPHY (MALE/FEMALE)

Roll Number

25-Oct-19

TIME ALLOWED: THREE HOURS
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-II: MAXIMUM MARKS: 80

NOTE: i. Question No. 1 is **COMPULSORY**. All questions carry equal marks.
ii. All the parts (if any) of each Question must be attempted at one place instead of at different places.
iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-I

Q-1

(A) Select the correct answer.

(10)

- i) The strait of Gibraltar connect the Atlantic Ocean to:
a) Mediterranean Sea b) Red Sea
c) Persian Gulf d) Caspian Sea
- ii) A large number of islands are referred collectively as:
a) Island Ring b) Isthmus
c) Atoll d) None of these
- iii) Who was the greatest and the most important cartographer in the ancient world?
a) Ptolemy b) Pythagoras
c) Plato d) Aristotle
- iv) The largest producer of rubber in Asia is:
a) Indonesia b) Malaysia
c) Thailand d) India
- v) The origin of agriculture was somewhere in:
a) China b) Central Asia
c) Middle East d) North America
- vi) The Sector Model of urban function was developed by:
a) Burgess b) Hoyt
c) Christaller d) Harris and Ullman
- vii) In which sea would you find the Great Barrier?
a) Bering Sea b) Red Sea
c) Tasman Sea d) Coral Sea
- viii) Equator passes through:
a) Malta b) Colombia
c) Malaysia d) Indonesia
- ix) Fossils are most common in which rock type?
a) Igneous Rock b) Sedimentary Rock
c) Metamorphic d) All of these
- x) Which of the following is a land locked country?
a) Hungary b) Switzerland
c) Belarus d) All of these

P. T. O.

(B) Fill in the blanks.

(05)

- i) ITCZ stands for _____.
- ii) The largest peninsula in the world is _____.
- iii) _____ is known as the founder of human geography.
- iv) _____ pass provides the only link between Dir and Chitral.
- v) Sunder Ban forest are located in _____.

(C) Mark the following statements as TRUE or FALSE.

(05)

- i) Dravidian's language is Balochi.
- ii) China is the world's largest producer of jute.
- iii) The Concentric Zone Model in urban geography was first introduced by Burgess.
- iv) Baku is the capital of Uzbekistan.
- v) The river Sawaan belong to potwar plateau.

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BALUCHISTAN PUBLIC SERVICE COMMISSION

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF

LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Geography (Male/Female)

Roll Number

25-Oct-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Attempt FOUR questions from Part-II. All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. In the Q. Paper. iv. No Page/Space be left blank between the answers . All the blank pages of Answer Book must be crossed.	

PART-II

- Q-2 Describe the types and explain the distribution of forests in Pakistan. (20)
- Q-3 Explain the role of river as Geomorphic Agent. (20)
- Q-4 Discuss the relationship between atmospheric pressure belt and wind system. (20)
- Q-5 What is Malthusian Theory of population? Discuss in detail. (20)
- Q-6 Define urbanization. Discuss the characteristics and problems of urban places. (20)
- Q-7 Illustrate the causes and important remedial measures to be taken for the control of waterlogging and salinity. (20)
- Q-8 Write down the geographical importance of Pakistan. (20)

**BALUCHISTAN PUBLIC SERVICE COMMISSION**

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF

LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Pakistan Studies (Male/Female)

Roll Number

24-Oct-19

TIME ALLOWED: THREE HOURS

PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20

PART-II: MAXIMUM MARKS: 80

NOTE:

- Question No. 1 is **COMPULSORY**. All questions carry equal marks.
- All the parts (if any) of each Question must be attempted at one place instead of at different places.
- Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
- No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-I

Q-1 (A) Select the correct answer.

(10)

- When was the National Anthem of Pakistan first played?
a) August 14, 1948
b) March 23, 1949
c) May 17, 1990
d) August 13, 1954
- Give the date on which the 1956 constitution was promulgated in the country:
a) 15 February, 1956
b) 23 March, 1956
c) 31 March, 1956
d) 6 April, 1956
- Which Prime Minister piloted the Objective Resolution in the first Constituent Assembly:
a) Nazimuddin
b) Liaquat Ali Khan
c) Feroze Khan Noon
d) Muhammad Aftab Khan
- Balochistan Muslim Students Federation was established in the year of:
a) 1945
b) 1943
c) 1942
d) 1944
- The Himalaya Mountain lie to the:
a) South of Pakistan
b) West of Pakistan
c) East of Pakistan
d) North of Pakistan
- In Pakistan, the Kharif crops are sown:
a) Between January and February
b) Between February and March
c) Between April and June
d) Between June and July
- Pakistan's Prime Minister Liaquat Ali Khan visited USA in:
a) May 1950
b) June 1950
c) July 1950
d) August 1950
- The Muslim Deputation met the Viceroy in 1906 in:
a) Delhi
b) Lahore
c) Simla
d) Calcutta
- Urdu was declared National Language of Pakistan in:
a) April, 1950
b) June 1952
c) April, 1954
d) August, 1950
- Who wrote National Anthem of Pakistan?
a) Allama Iqbal
b) Mirza Adeeb
c) Hafeez Jallundari
d) Saqar



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
Pakistan Studies (Male/Female)

Roll Number

24-Oct-19

TIME ALLOWED: THREE HOURS

PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20

PART-II: MAXIMUM MARKS: 80

- NOTE:**
- Attempt **FOUR** questions from Part-II. All questions carry equal marks.
 - All the parts (if any) of each Question must be attempted at one place instead of at different places.
 - Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
 - No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-II

- Q-2** Discuss in detail the importance of Pak—China—India relations in the current regional scenario. (20)
- Q-3** Corruption is one of the major problems of Pakistan. Write your suggestions to eradicate this evil. (20)
- Q-4** Write a detail note on Islamic Provisions of the Constitution of Pakistan. (20)
- Q-5** Discuss the importance of the strategic location of Pakistan. (20)
- Q-6** Analyse the factors which resulted in the creation of Pakistan. (20)
- Q-7** Give an account on the services of Sir Syed Ahmed Khan for the educational and social uplift of the Muslim of subcontinent. (20)
- Q-8** Write notes on any TWO of the following: (10+10)
- Canal Water Dispute
 - Democracy in Pakistan
 - The Kashmir Problem
 - The Red Cliff's Award

(B) Fill in the blanks.

(05)

- i) Quled-i-Azam resigned from the Indian National Congress in _____.
- ii) The Indus Basin Treaty was signed in _____.
- iii) Pakistan became the member of UNO in _____.
- iv) Partition of Bengal took place in the year of _____.
- v) RCD was established in the year _____.

(C) Mark the following as TRUE or FALSE. (Justify if you think the statement is FALSE) (05)

- i) The largest river of Balochistan is Kabul River.
- ii) The total number of Agencies included in the erstwhile FATA were ten.
- iii) Bangladesh came into existence on 14 December 1971.
- iv) The second OIC summit was held in Lahore in the year 1973.
- v) First president of Pakistan was Ayub Khan.



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
STATISTICS (MALE/FEMALE)

Roll Number

23-Oct-19

TIME ALLOWED: THREE HOURS

PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20

PART-II: MAXIMUM MARKS: 80

NOTE:

- Question No. 1 is **COMPULSORY**. All questions carry equal marks.
- All the parts (if any) of each Question must be attempted at one place instead of at different places.
- Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
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PART-I

(A) Fill in the blanks.

(10)

- All odd order central moments of normal distribution are _____.
- If the characteristic function $\phi_X(t) = 1 + it + (it)^2 + \dots$, then $\mu'_2 =$ _____.
- A dice is thrown two times, the probability of not getting a doublet is _____.
- If $X \sim \text{Bin}(k, \theta)$, then the standard deviation of X is _____.
- The standardized death ratio is defined as _____.
- A general procedure for finding a minimal sufficient statistic is provided by the _____ theorem.
- Failing to reject the null hypothesis when it is false is called _____.
- The _____ test is used to check the overall significance of regression coefficients.
- The median of 55, 40, 20, 50, 55, and 10 is _____.
- The _____ nonparametric test is the alternative to the independent t-test.

(B) Define the terms.

(10)

- Estimate and Estimator
- Confidence and Credible Intervals
- Parametric and nonparametric tests
- Sampling and non-sampling errors
- Ogive and frequency polygon

**BALUCHISTAN PUBLIC SERVICE COMMISSION**

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF

LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Roll Number

STATISTICS (MALE/FEMALE)

23-Oct-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Attempt FOUR questions from Part-II. All questions carry equal marks. ii. The use of a scientific calculator and statistical tables are allowed. iii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iv. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. v. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-II

Q-2 a) What are probability and nonprobability sampling methods? Discuss important types of probability sampling. (10)

b) The masses, measured to the nearest kg, of 50 boys are noted and the distribution formed. (10)

Mass (in kg)	60-64	65-69	70-74	75-79	80-84	85-89
Frequency	2	6	12	14	10	6

- Calculate the mean and variance of the data.
- Find the median mass and interquartile range. Also, find the mode and comment on the skewness of the distribution.
- What would be the 10 to 90 percentile range?

Q-3 a) Let X be a random variable with pdf $f(x) = \frac{1}{\Gamma(\theta)k^\theta} x^{\theta-1} e^{-\frac{x}{k}}$, $x > 0$. (10)

Derive the moment generating function of X and use it to calculate the mean and variance of X .

b) A rare disease exists with which only 1 in 500 is affected. A test for the disease exists, but of course, it is not infallible. A correct positive result (patient actually has the disease) occurs 95% of the time, while a false positive result (patient does not have the disease) occurs 1% of the time. If a randomly selected individual is tested and the result is positive, what is the probability that the individual has the disease? (10)

Q-4 a) What is statistical inference? Write about three types of statistical inference. (12)

b) The same test was given to a group of 100 males and to a group of 144 females. The mean score of the males was 27.53 and the mean score for the females was 26.81. Assuming a common population standard deviation of 3.48, test, using a 5% level of significance, whether the males' performance in the test was better than that of the females. Assume that the scores are normally distributed. (08)

Q-5 a) Why the stochastic disturbance term u_i is included in the regression model $y_i = \beta_1 + \beta_2 x_i + u_i$? Explain in detail, at least five reasons. (10)

b) Summary quantities of a data are as follows: (10)

$$n = 20, \sum y_i = 1843.21, \sum y_i^2 = 170044.53, \sum x_i = 23.92, \sum x_i^2 = 29.29, \text{ and } \sum x_i y_i = 2214.66$$

- Fit a simple linear regression model of y on x .
- Test the significance of regression.
- Find a 95% confidence interval for the slope of the regression and for $\mu_{Y|x_0}$, where $x_0 = 1.00$.

P. T. O.

- Q-6**
- a) The chi-square distribution has many important applications in statistics. Write down the main properties of the chi-square distribution. What are its applications? (12)
- b) To determine the effect of four different chemicals on the strength of a fabric, an experiment was performed. Five fabric samples were selected, and a RCBD was run by testing each chemical type once in random order on each fabric sample. The data are provided in the following table: (08)

Chemical Type	Fabric Sample				
	1	2	3	4	5
1	1.3	1.6	0.5	1.2	1.1
2	2.2	2.4	0.4	2.0	1.8
3	1.8	1.7	0.6	1.5	1.3
4	3.9	4.4	2.0	4.1	3.4

Test for differences in means using an ANOVA with $\alpha = 0.01$.

- Q-7**
- a) What are the four main properties of a good estimator? Discuss each in detail. (12)
- b) Let X_1, X_2, \dots, X_n denote a random sample from a Poisson distribution that has a mean $\theta > 0$. Show that \bar{X} is an MLE and efficient estimator for θ . (08)
- Q-8** Write short on the following: (20)

- i) Latin Square Design
- ii) Kruskal Wallis test
- iii) Types of Index Numbers
- iv) Bayesian estimation



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
BIOCHEMISTRY (MALE/FEMALE)

Roll Number

23-Oct-19

TIME ALLOWED: THREE HOURS
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-II: MAXIMUM MARKS: 80

NOTE: i. Attempt **FOUR** questions from Part-II. All questions carry equal marks.
ii. All the parts (if any) of each Question must be attempted at one place instead of at different places.
iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-II

- Q-2 What are storage polysaccharides? Give a brief description of each of them. (20)
- Q-3 a) Define Transamination. Write down the chemical reaction catalyzed by aminotransferase. (05)
- b) Explain urea cycle in detail. (15)
- Q-4 Give structure, sources, Biochemical roles and deficiency diseases of vitamin C. (20)
- Q-5 a) Describe the structure and function of phosphoglycerides. (10)
- b) Explain different types of enzyme inhibitions with suitable examples. (10)
- Q-6 Describe the steps involve in protein synthesis with the help of diagram. (20)
- Q-7 Explain the chemistry, metabolism and biological function of thyroid hormones. (20)
- Q-8 Write notes on any TWO of the following: (10+10)
- i) Polymerase chain reaction structure
 - ii) Types and functions of Immunoglobulins
 - iii) Tertiary structure of protein

**BALUCHISTAN PUBLIC SERVICE COMMISSION**

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF

LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

BIOCHEMISTRY (MALE/FEMALE)

Roll Number

23-Oct-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Question No. 1 is COMPULSORY . All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-I**Q-1 (A) Select the correct answer.****(10)**

- i) Which of the following sugar is found in RNA?
a) 2-deoxy Ribose b) 3-deoxy Ribose
c) D-Ribose d) D-Xylulose
- ii) A hetero polysaccharide among the following is:
a) Inulin b) Cellulose
c) Heparin d) Dextrin
- iii) Sulphur containing amino acid is:
a) Methionine b) Leucine
c) Valine d) Asparagine
- iv) Pepsin is an example for the class of enzyme namely:
a) Oxidoreductases b) Transferases
c) Hydrolases d) Ligases
- v) The functionally active form of vitamin D is:
a) Cholecalciferol b) Ergocalciferol
c) Dehydrocholesterol d) Calcitriol
- vi) The number of ATP produced when a molecule of acetyl CoA is oxidized through citric acid cycle:
a) 15 b) 24
c) 38 d) 12
- vii) The codon that terminate protein biosynthesis:
a) UAA b) UAG
c) UGA d) All of them
- viii) Glucagon is a pancreatic hormone responsible for:
a) Increases protein synthesis b) Inhibits lipolysis in adipocytes
c) Increases gluconeogenesis in liver d) Stimulates muscle glycogenolysis
- ix) During denaturation of proteins, all of the following are disrupted except:
a) Primary structure b) Secondary structure
c) Tertiary structure d) Quaternary structure
- x) The hormones which act in the vicinity of their site of production are:
a) General hormones b) Autocrine hormones
c) Local hormones d) Paracrine hormones

P. T. O.

(B) Fill in the blanks.

(05)

- i) The lipids that are not the structural components of biological membranes are _____.
- ii) The pyrimidine present in DNA but absent in RNA is _____.
- iii) The non-protein part of holoenzyme is _____.
- iv) A polysaccharide which is often called animal starch is _____.
- v) In the presence of glucose and lactose, transcription of lac operon is _____.

(C) Differentiate between the following.

(05)

- i) Nucleosides and Nucleotides
- ii) Homo polysaccharides and Hetero polysaccharides
- iii) Essential amino acids and nonessential amino acids
- iv) Zymogens and Iso enzymes
- v) Lecithins and Cephalins

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BALUCHISTAN PUBLIC SERVICE COMMISSION

WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF

LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

HOME ECONOMICS (FEMALE)

Roll Number

22-Oct-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Attempt FOUR questions from Part-II. All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-II

- Q-2 Write down the classification, functions and sources of carbohydrates. (20)
- Q-3 Define design. What are the different types of design and how are they used in daily life? (20)
- Q-4 What is Home Economics Education? Describe in detail. (20)
- Q-5 Define food and nutrition in detail. (20)
- Q-6 What is clothing and textiles? (20)
- Q-7 Write the importance of saving? (20)
- Q-8 Explain the principles of child development. Describe a Nursery School. (20)



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
HOME ECONOMICS (FEMALE)

Roll Number

22-Oct-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Question No. 1 is COMPULSORY . All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-I

Q-1 (A) Select the correct answer.

(15)

- i) While selecting a dress which of the following consideration should come first:
a) Cost
b) Colour
c) Both a & b
d) None of these
- ii) Which of the following elements give special importance to protein:
a) Carbon
b) Oxygen
c) Hydrogen
d) Nitrogen
- iii) What steps should be taken to avoid fatigue:
a) Work simplification
b) Work without planning
c) Work with intervals
d) None of these
- iv) What is necessary for the proper growth of body:
a) Meat
b) Fruits
c) Balanced diet
d) Vegetables
- v) In manufacturing processes of all fabrics the last process is:
a) Dyeing
b) Boiling
c) Ginning
d) Ironing
- vi) Which of the following is not a food nutrient:
a) Carbohydrate
b) Protein
c) Legumes
d) Fat & Oil
- vii) The development that comes from exercise and effort is:
a) Skill
b) Growth
c) Maturation
d) Learning
- viii) Early development is :
a) Easy
b) Difficult
c) Critical
d) Slow
- ix) Vit D is essential for the absorption of:
a) Iron
b) Phosphorus
c) Calcium
d) Iodine
- x) Symbol, design, word or letter which aids to distinguish a manufacturer's product is called:
a) Grade Mark
b) Trade Mark
c) Label
d) Tag

P. T. O.

- vi) Thomas Aquinas's cosmological arguments argue for:
- The existence of knowledge
 - The existence of God
 - Nihilism
 - The existence of other intelligent life
- vii) What does *tabula rasa* mean?
- New knowledge
 - Rise tomorrow
 - Red tablet
 - Clean slate
- viii) The philosophical study of value called:
- Valuation
 - Axiology
 - Ethics
 - Ontology
- ix) Who is widely known as the first existentialist, despite never having used the word existentialism?
- Soren Kierkegaard
 - Hannah Arendt
 - Alan Watts
 - Jean-Paul Sartre
- x) Aristotle says that what makes things be what they are—their essence—does not exist apart from individuals that exist in the world. So if all the members of a species were destroyed, then their essence or form:
- Would likewise be destroyed.
 - Would be destroyed only if there were no one around to remember the species.
 - Would continue existing (as with Plato's Forms) in some other realm of being.
 - Would not be destroyed because there was no essence or form originally to be destroyed, there are only individuals, not universal essences or nature of things.

(B) Mark the following statements as True or False.

(05)

- One of the primary aims of philosophy is to see how our beliefs compare with those of other who can and do raise objections against those beliefs.
- Philosophical questions are generally more concerned with identifying how beliefs differ among persons or cultures than with how those different beliefs can be justified.
- According to ethical egoism, you should do whatever you desire to do whatever gives you the most immediate pleasure.
- Kant believes that we should not treat persons merely as a means except when society's welfare is at stake.
- Mill asserts that happiness is the sole end of human action.

(C) Differentiate between the following.

(05)

- Categorical Imperative and hypothetical Imperative.
- Pantheism and Monotheism
- Primary qualities and secondary qualities
- Corporeal being and incorporeal being
- Intuition and revelation



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Roll Number

PHILOSOPHY (MALE)

22-Oct-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Question No. 1 is COMPULSORY . All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-I

- 1-1 (A) Select the correct answer. (10)
- i) Philosophy is concerned with identifying beliefs about human existence and evaluating arguments that support that beliefs. These activities can be summarized in two questions that drive philosophical investigations:
- Why should we bother? And what are the consequences of our believing one thing over other.
 - What do you mean? And how do you know?
 - Who really believes? And how can we explain differences in people's belief?
 - How do philosopher argue? And are there differences important?
- ii) To say that "Philosophy" (like "love" or "art") is not closed concept means that we cannot stat the necessary and sufficient conditions by which it is defined. Rather, philosophic issues are identifiable as having "family resemblance" in one another, in other words:
- There is no one distinguishing feature that identifies an issue as philosophic, only an overlapping of issues roughly associated with one another.
 - The way we come to think about philosophy, love, or art really depends on how we were raised by our families to identify things as resembling one another.
 - The necessary and sufficient condition for something to be considered philosophic is that it answers either of these questions, what does it mean? And who do you know?
 - Philosophy is not a closed discipline in so far as it is willing to accept any answer suggested by the "human family" as being true.
- iii) Whereas the social sciences (e. g. psychology, sociology, economics) ask questions about how people think and act, philosophy is the study of:
- How people with different beliefs or backgrounds disagree with one another.
 - What beliefs mean and whether people with different beliefs are justified in having them.
 - The reason why philosophic questions never have better or worse answers.
 - Questions that can be answered better by appealing to scientific experiments.
- iv) According to Socrates, the value or quality of one's life depends on understanding the principles of, or basic rationale for human existence, without such knowledge (he suggests) life lacks virtue, because:
- Acting virtuously means acting in way that is informed about what one is doing and why?
 - Someone who does not understand existence philosophically could never do anything right.
 - To have the power or ability to do anything at all requires that we know what we are doing.
 - Not only is virtue knowledge but also the unexamined life is not worth thing.
- v) According to Plato, what is knowledge?
- There is no such thing as true knowledge.
 - That which can be proven.
 - Opinion.
 - Justified true belief.

P.T.O



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
PHILOSOPHY (MALE)

Roll Number

22-Oct-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Attempt FOUR questions from Part-II. All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-II

- Q-2 On Descartes's view, can we ever know that other minds exist? Why or why not? How does Descartes use the notion of divisibility to argue that the mind exists independently from the body? (20)
- Q-3 Does Mills's utilitarianism conflict with the common moral principle that people have inalienable rights? Explain. Suppose the theory does conflict in this way. What should be done about this problem? Reject the theory, modify it, or combine it with some other theory. (20)
- Q-4 State and examine Mill's methods of Experimental Inquiry. Are these methods sufficient to discover causal relation? (20)
- Q-5 The idea of *Khudi* (self) is central to Iqbal's system of thought. *Khudi* (self) to Iqbal is not reason but *Amr* (direction). Discuss in detail. (20)
- Q-6 Kierkegaard's analysis of the "Three Stages" represent a sharp contrast to Hegel's theory of gradual development of a person's self-consciousness. Discuss. (20)
- Q-7 If Rationalism and Empiricism are the avenue of Knowledge. Which of them will you prefer as a theory of Knowledge and why? Discuss. (20)
- Q-8 Write short notes on the following: (4x)
- Unmoved Mover
 - Philosopher King
 - Nous
 - Socratic Method



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
Botany (Male/Female)

Roll Number

22-Oct-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Attempt FOUR questions from Part-II. All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-II

- Q-2** a) Write down disaccharides and polysaccharides in detail. (10)
b) What is the chemical composition of plasma membrane? Write modern concepts. (10)
- Q-3** a) What is double fertilization? Discuss its significance. (10)
b) What factor effect the rate of transpiration? (10)
- Q-4** a) Explain test cross and back cross with the help of examples. (10)
b) Give the significance of Meiosis. (10)
- Q-5** a) What is Succession? Explain Xerosere (10)
b) Write harmful and beneficial effects of Fungi. (10)
- Q-6** a) What is Gene Mutation? Explain small-scale and large-scale mutation. (10)
b) Explain, Passive absorption of minerals. (10)
- Q-7** Describe life cycle of Pinus in detail. (20)
- Q-8** Write notes on any TWO of the following: (10+10)
i) Economic importance of Poaceae.
ii) Z-Scheme (light reaction)
iii) Asexual reproduction in volvox.
iv) Internal structure of leaf.



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
Botany (Male/Female)

Roll Number

12-Oct-19

TIME ALLOWED: THREE HOURS
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-II: MAXIMUM MARKS: 80

- NOTE:**
- Question No. 1 is **COMPULSORY**. All questions carry equal marks.
 - All the parts (if any) of each Question must be attempted at one place instead of at different places.
 - Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
 - No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

PART-I

Q-1 (A) Select the correct answer.

(10)

- Greenhouse effect is caused by:**
a) CO
b) CO₂
c) H₂
d) CFC
- The bacteria involved in symbiotic nitrogen fixation are:**
a) Rhizobium
b) Clostridium
c) Nitrosomonas
d) Pseudomonas
- The plants which grow best in full sunlight are:**
a) Hydrophytes
b) Sciophytes
c) Heliophytes
d) Xerophytes
- Gibberellin was first obtained from:**
a) Plant
b) Algae
c) Fungi
d) Bacteria
- Casparian Strips are present in:**
a) Epidermis
b) Xylem
c) Cortex
d) Endodermis
- Inflorescence in family Euphorbiaceae is:**
a) Head
b) Catkin
c) Cyathium
d) Spike
- The granule-like structure present in chloroplast is:**
a) Grana
b) Thylakoid
c) Stroma
d) Intergranum
- The structure used to store starch in algae is:**
a) Chloroplast
b) Nucleus
c) Mitochondria
d) Pyrenoid
- The group or mass of hyphae is:**
a) Filament
b) Sporophore
c) Mycelium
d) Sclerotium
- The cup-shaped vegetative reproductive bodies present in Bryophytes are called:**
a) Androgonia
b) Gemma
c) Tuber
d) Jacket

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(B) Fill in the blanks.

(05)

- i) The filaments without cross walls are called _____ filament.
- ii) The protostele in which xylem core is star-like is called _____.
- iii) The arrangement of the leaves on the stem is called _____.
- iv) The number of moles of a _____ per liter of a solution is called molarity.
- v) During prophase in mitosis, the _____ condense to form chromosomes.

(C) Define the terms.

(05)

- i) Respiratory quotient
- ii) Photolysis
- iii) Polyploidy
- iv) Community
- v) Waterlogging

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BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Roll Number

Environmental Sciences (Male/female)

21-Oct-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Attempt FOUR questions from Part-II. All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-II

- Q-2 a) What are the major layers in the atmosphere? (10)
- b) How ozone is produced in the lower atmosphere and why is it harmful? Justify your answer with suitable example. (10)
- Q-3 What is Global Warming and Climate Change? Write down effects on Pakistan's agriculture, water resources, food and forests. (20)
- Q-4 a) What do you know about the concept of "tragedy of commons"? (02)
- b) What are the main stages in the process of EIA? Support your answer with the help of suitable example. (10)
- c) What is the difference between phase I and phase II of EIA? (08)
- Q-5 a) How many types of fishes are there in Pakistan? (05)
- b) What are the existing reasons for its decline and its potential in the national economy? (10)
- c) What are the possible management options? (05)
- Q-6 a) What is the difference between research article and review article? (05)
- b) What are the types of survey questions should be used to get more survey responses? Support your answer with suitable example. (10)
- c) Define variable. How many types of variables are there? Support your answer with suitable example. (05)
- Q-7 a) How many seasons are there present in Pakistan? Briefly describe the climatic zones of Pakistan. (10)
- b) What causes global wind system? Write down its types. (10)
- Q-8 Write short note on the following: (10+10)
- i) National Rangeland Policy
- ii) Hydrological Cycle



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)
IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT
Media Studies (Male/Female)

Roll Number

21-Oct-19

TIME ALLOWED: THREE HOURS	PART-I (OBJECTIVE): MAXIMUM MARKS: 20
PART-I (OBJECTIVE): MAXIMUM 30 MINUTES	PART-II: MAXIMUM MARKS: 80
NOTE: i. Attempt <u>FOUR</u> questions from Part-II. All questions carry equal marks. ii. All the parts (if any) of each Question must be attempted at one place instead of at different places. iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.	

PART-II

- Q-2 What is media hegemony and how the content of media is shaping the global cultural order? (20)
- Q-3 Media and Communication technologies play an important role in the "mediation" of Globalization Theories processes and are sometimes even viewed as key drivers of globalization. Discuss. (20)
- Q-4 Explain six (06) point Public Relation Planning Model with a case study. (20)
- Q-5 Write down the characteristics of newspapers of the first phase of press in Balochistan. (20)
- Q-6 What are the structural and functional differences in Feature, Column and an Editorial? (20)
- Q-7 Explain in details how PEMRA ordinance facilitated the mushroom growth of media in Pakistan. (20)
- Q-8 Give a detailed evolutionary history of media laws in Pakistan and how the Prevention of Electronic Crimes Act 2016 restricts social media to play its role as an alternative media. (20)



BALUCHISTAN PUBLIC SERVICE COMMISSION
WRITTEN EVALUATION TEST FOR RECRUITMENT TO THE POST(S) OF
LECTURER (B-17)

IN THE COLLEGES, HIGHER AND TECHNICAL EDUCATION DEPARTMENT

Environmental Sciences (Male/female)

Roll Number

21-Oct-19

TIME ALLOWED: THREE HOURS

PART-I (OBJECTIVE): MAXIMUM 30 MINUTES

PART-I (OBJECTIVE): MAXIMUM MARKS: 20

PART-II: MAXIMUM MARKS: 80

NOTE:

- i. Question No. 1 is **COMPULSORY**. All questions carry equal marks.
- ii. All the parts (if any) of each Question must be attempted at one place instead of at different places.
- iii. Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
- iv. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed

PART-I

Q-1

(A) Select the correct answer.

(05)

- i) Which of the following is not an MDG:
 - a) Improve maternal health
 - b) Achieve universal access to safe drinking water, sanitation and hygiene
 - c) Ensure environmental sustainability
 - d) Achieve universal primary education
- ii) What does it mean if two variables have a positive correlation?
 - a) As one variable increases, so does the other
 - b) As one variable increase, the other decreases
 - c) The correlation between the two variables is 0
 - d) The correlation between the two variables is greater than 1.0
- iii) The sound of which intensity is regarded as the safe noise level for a city?
 - a) 80 dB
 - b) 60 dB
 - c) 120 dB
 - d) 45 dB
- iv) According to the U.N. (FAO), Pakistan is forested as about:
 - a) 2.9%
 - b) 2.2%
 - c) 9.2%
 - d) 22%
- v) Sometimes, a company that generates pollution will pay extra taxes, based on the amount of pollution it produces. These are known as:
 - a) Control taxes
 - b) Green taxes
 - c) Trade taxes
 - d) Subsidy taxes

(B) Mark the following as TRUE or FALSE. (Justify if you think the statement is FALSE)

(05)

- i) More than 100 countries have legislation of EIA.
- ii) Organic Farming causes harm to human health.
- iii) Environmental health hazards are usually easy to spot.
- iv) Your smoke alarm will alert you to dangerous levels of carbon monoxide in your home.
- v) Water in pristine streams and lakes is safe to drink.

P. T. O

(C) Match the columns.

(05)

Column A	Column B
Separation Technique	Mycotoxin
Fungi	Organic Pollutant
Extraction Technique	Heat Transfer
Chlorofluorocarbon	Chromatography
Conduction	Distillation

(D) Differentiate each of the following by quoting suitable examples.

(05)

- i) Toxin and Toxicant
- ii) Conduction and Convection of Heat
- iii) Synergistic and Additive Effect
- iv) Weather and Climate
- v) EIA and IEE