

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POST OF PMS (2022)
(EVERYDAY SCIENCE)

Time Allowed: 03 Hours

Maximum Marks: 100

Note: Attempt any **FIVE** questions.

- Q1.** (a) Write the contributions of at least five Muslim Scientists in the field of science (10)
(b) Briefly explain the impact of science on society with practical examples from everyday life. (10)
- Q2.** Explain the following (4+4+4+4+4)
(i) Astronomy
(ii) Solar System
(iii) Solar system units
(iv) Galaxy
(v) Universe
- Q3.** (a) What do you mean by energy? Explain the law of conservation of energy and write the various available sources of energy in Pakistan (10)
(b) What is renewable energy and how many different types of renewable energy are there. Elaborate each type of renewable energy with example (10)
- Q4.** (a) What do you mean by ceramics? Write various types and uses of ceramics in the modern technological world. (10)
(b) What is a computer? Write the different input and output devices of a computer. Also explain the difference between hardware and software with suitable examples (10)
- Q5.** Write short notes on the following (5+5+5+5)
(i) Laser
(ii) Microscope
(iii) Camera
(iv) Television
- Q6.** (a) Explain the structure and types of a Cell in Biology with diagrams (10)
(b) What do you mean by chromosomes? Explain the function of chromosomes in the human body. (10)
- Q7.** (a) Differentiate between animals and plants in detail. (10)
(b) Explain DNA and RNA. (10)
- Q8.** (a) Describe the function of arteries, veins, and capillaries (10)
(b) Explain the cardiac cycle in detail (10)