

PUNJAB PUBLIC SERVICE COMMISSION

**COMBINED COMPETITIVE EXAMINATION FOR
RECRUITMENT TO THE POSTS OF
PROVINCIAL MANAGEMENT SERVICE-2019**

SUBJECT: GEOLOGY (PAPER-I)

TIME ALLOWED: THREE HOURS

MAXIMUM MARKS: 100

NOTE: Attempt Five Questions in All. Attempt in Urdu or English.

Q No. 1: Describe the geology, mode of occurrence and significance of uranium deposits of Pakistan. **(20)**

Q No. 2: Explain Remote Sensing and Geographic Information System (GIS) and discuss their application in mineral prospecting and engineering geology. **(20)**

Q No. 3: Describe the following: (10+10=20)

- i. Geothermal Energy
- ii. Geological Significance of Fossils

Q No. 4: Discuss various modes of slope failure and explain slope stability methods. **(20)**

Q No. 5: Describe the properties of natural occurring materials used as aggregate in cement concrete. **(20)**

Q No. 6: Discuss the following: (10+10=20)

- i. Site investigation of Dams
- ii. Climate changing phenomena

Q No. 7: What are the Principles of Stratigraphy? Discuss the Stratigraphy of Salt Range. **(20)**

Q No. 8: Writes short notes on the following: (4x5=20)

- i. Clastic Rocks
- ii. Types of Joints
- iii. Classification of Folds
- iv. Glacial Landforms