PUNJAB PUBLIC SERVICE COMMISSION

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

SUBJECT:	GEOLOGY (PAPER-IT)
TIME ALLOWED: THREE HOURS	MAXIMUM MARKS: 100

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

- Make a sketch of cross section of the earth indicating the main subdivision of Q No. 1: the earth's interior and also give their names, thickness of the various layers of the earth and discuss their major composition.
- Q No. 2: Define geological fold by giving its anatomy with the help of a sketch of the symmetrical anticline. Also discuss various types of folds.
- Some sedimentary structures can be used to identify the tops and bottoms of Q No. 3: beds, discuss with the help of figures how the following structures can be applied to determine the top and bottom. € (20)
 - a. Determination of anticline by Ripple marks
 - b. Determination of syncline by Cross bedding
- Q No. 4: 7 How clastic sedimentary rocks are produced give step wise procedure for formation of these rocks by giving examples from Pakistan. (20)
- Q No. 5: Discuss the Pre-Cambrian and Cambrian sequence of Salt range of Pakistan.

(20)

Q No. 6: What is a diagenesis, discuss what type changes and effects occur during deep burial.

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Discuss in detail physical properties of minerals.

(20)

Q No. 8: Write short notes on the following. (5x4=20)

- Laccolith and Phacolith
- Metamorphic rocks
- Convolute Bedding and Lamination.
- Flaser and lenticular bedding

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