FEDERAL PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION-2018
FOR RECRUITMENT TO POSTS IN BS-17
UNDER THE FEDERAL GOVERNMENT

Roll Number

GEOLOGY

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

NOTE: (i) **Part-II** is to be attempted on the separate **Answer Book.**

(ii) Attempt **ONLY FOUR** questions from **PART-II** by selecting **TWO** questions from **EACH SECTION. ALL** questions carry **EQUAL** marks.

(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.

(vi) Extra attempt of any question or any part of the attempted question will not be considered.

PART-II
SECTION-I

Q. No. 2. **(a)** Briefly describe internal structure and composition of the earth. **(10)**

(b) What do you know about Isostasy and Isostatic Adjustment? Explain. **(10)**

Q. No. 3. **(a)** Describe various modes of fossilization. **(15)**

(b) Briefly describe various lithostratigraphic units. **(5)**

Q. No. 4. **(a)** Describe various sedimentary structures of the clastic rocks. Also write down their importance in the field. **(10)**

(b) Describe various types of volcanic material and their characteristic features. **(10)**

Q. No. 5. **(a)** Write down the genetic classification of faults. Also relate principal stresses with all those faults. **(10)**

(b) Briefly describe the various types of plate boundaries and the associated earth features along them. **(10)**

SECTION-II

Q. No. 6. Briefly describe various types of gravity anomalies and their corrections. **(20)**

Q. No. 7. **(a)** What do you know about the trapping mechanism of hydrocarbons? Explain. Also describe various types of traps. **(15)**

(b) What do you know about bright spot technique? Explain. **(5)**

Q. No. 8. Write short notes on any **TWO** of the followings:- **(10 each)** **(20)**

(a) Stratigraphic Sequence.

(b) Copper deposits of Pakistan.

(c) Earthquakes (Elastic Rebound theory and Locating Epicenter)

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