FEDERAL PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION-2019
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) 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 question will not be considered.

PART – II
SECTION – I

Q. No. 2. What characteristics a sedimentary strata should contain to be designated as a "Formation"? How the formation is divided into sub-units? Describe the characters of Salt Range Formation. **(20)**

Q. No. 3. Elaborate the Plagioclase Series of Feldspar group of rock forming minerals. Describe the physical and optical characteristics of the series. **(20)**

Q. No. 4. What is Pull-apart basin? Describe the characteristics of transform movement between two continental blocks. Where you find similar features in Pakistan? **(20)**

Q. No. 5. What are Pegmatites? Discuss the texture and mineralogical composition of pegmatites. What precious minerals are associated with acidic pegmatites? **(20)**

SECTION-II

Q. No. 6. What methods of geophysical exploration are used for metallic ore deposits? What instruments are used for acquisition and interpretation of data? **(20)**

Q. No. 7. Differentiate between volcanic and fissure eruptions. Describe types of materials exhaled by volcanoes. How these materials are hazardous to men and environment? **(20)**

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

(a) Source sediments of petroleum.

(b) Site investigation for highway construction.

(c) Site investigation for tunnel construction.

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