



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
<p>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</p> <p>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.</p> <p>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</p> <p>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</p> <p>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</p> <p>(vi) Extra attempt of any question or any part of the question will not be considered.</p>		

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.
