



**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2023**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**GEOLOGY**

<b>TIME ALLOWED: THREE HOURS</b> <b>PART-I(MCQS): MAXIMUM 30MINUTES</b>	<b>PART-I (MCQS)    MAXIMUM MARKS = 20</b> <b>PART-II            MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b> <b>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. All questions carry EQUAL marks.</b> <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b> <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b> <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b> <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>	

**PART-II**  
**SECTION-I**

- Q. No. 2.**      Discuss the history and component of geological time scale. **(20)**
- Q. No. 3.**      Discuss the trilobites and their significance in Paleozoic stratigraphy. **(20)**
- Q. No. 4.**      Write a comprehensive note on IUGS classification of volcanic rocks. **(20)**
- Q. No. 5.**      How salt can be identified in the field? Discuss the stratigraphic, physiographic, and geometric criteria. **(20)**

**SECTION-II**

- Q. No. 6.**      Discuss in detail the mostly applied geophysical techniques in mineral exploration. **(20)**
- Q. No. 7.**      Explain the primary and secondary migration of Hydrocarbons. **(20)**
- Q. No. 8.**      What are mostly conducted modes of subsurface investigations at dam sites? Discuss comprehensively with figures where required. **(20)**

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