

## FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2021 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

## **GEOLOGY**

TIME ALLOWED: THREE HOURS PART-I (MCQS) MAXIMUM MARKS =				
PART-I(MCQS): MAXIMUM 30 MINUTES PART-II MAXIMUM MARKS = 80				
NOTE: (i) (ii)	Part-II is to be attempted on the separate Answer Book.  Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH			
(II)	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)				
(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.			
(1) Entite attempt of any question of any part of the question will not be considered.				
PART – II				
<u>SECTION – I</u>				
Q. No. 2.	c. 2. Classify pyroxene group of minerals based on chemical composition. Also mention their physical and optical properties.			
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Q. No. 3.	Elaborate various laws of stratigraphy, use suitable sketches/examples in support (20)			
	of your answer.			
Q. No. 4.	Elaborate the fundamental silica tetrahedral structure (SiO <sub>4</sub> ). Give possibilities of			<b>(20)</b>
	SiO <sub>4</sub> linkage to give rise to six silicate structural groups.			
Q. No. 5.	Describe the test compositions of order Foraminiferida. Discuss their ecology and (20)			
	how it plays important role in Tertiary biostratigraphy.			
SECTION-II				
	<u>520</u>			
Q. No. 6.	Elaborate characteristics of effective tra	rap-rocks. Describe principal types of (20		
hydrocarbon traps with examples.				
Q. No. 7.	1			
	of Pakistan and how it can be reduced?			
Q. No. 8.	Write short notes on any TWO of the following: (10 each)			(20)
	(a) Geothermal energy			
	<b>(b)</b> Eustatic curve			
	(c) Physical weathering			
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