

## FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2020 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

(10 each)

**(20)** 

## **GEOLOGY**

	PART-I (MCQS) PART-II	MAXIMUM MARKS : MAXIMUM MARKS :	
Attempt ONLY FOUR questions from	PART-II by selecti	ing TWO questions from	EACH
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different			
<ul> <li>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</li> <li>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</li> </ul>			
(vi) Extra attempt of any question or any part of the question will not be considered.			
9		rtation. Elaborate the	(20)
What are lithostratigraphic and chrolaws of stratigraphy.	nostratigraphic unit	? Discuss the various	(20)
Explain isomorphism and polymorphism through examples. Give a detailed account of classification of silicate minerals.			(20)
		ious structural controls	(20)
SECTION-II			
			(20)
•		rocks. Elaborate the	(20)
	Part-II is to be attempted on the separattempt ONLY FOUR questions from SECTION. ALL questions carry EQUALL the parts (if any) of each Question places.  Write Q. No. in the Answer Book in a No Page/Space be left blank between must be crossed.  Extra attempt of any question or any provided in a second s	Part-II is to be attempted on the separate Answer Book. Attempt ONLY FOUR questions from PART-II by select SECTION. ALL questions carry EQUAL marks. All the parts (if any) of each Question must be attempted a places.  Write Q. No. in the Answer Book in accordance with Q. N. No Page/Space be left blank between the answers. All the must be crossed.  Extra attempt of any question or any part of the question of the question of the question of various agents and types of weathering.  Differentiate between weathering, erosion and transpositions agents and types of weathering.  What are lithostratigraphic and chronostratigraphic unit laws of stratigraphy.  Explain isomorphism and polymorphism through exama account of classification of silicate minerals.  Differentiate between lineation and foliation. Discuss varion the mechanical properties of materials.  SECTION-II  Differentiate between eustatic and relative sea level relationship between eustacy, accommodation space and second	Part-II is to be attempted on the separate Answer Book. Attempt ONLY FOUR questions from PART-II by selecting TWO questions from SECTION. ALL questions carry EQUAL marks. All the parts (if any) of each Question must be attempted at one place instead of at oplaces. Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper. No Page/Space be left blank between the answers. All the blank pages of Answer must be crossed. Extra attempt of any question or any part of the question will not be considered.  PART - II SECTION - I  Differentiate between weathering, erosion and transportation. Elaborate the various agents and types of weathering.  What are lithostratigraphic and chronostratigraphic unit? Discuss the various laws of stratigraphy.  Explain isomorphism and polymorphism through examples. Give a detailed account of classification of silicate minerals.  Differentiate between lineation and foliation. Discuss various structural controls on the mechanical properties of materials.  SECTION-II  Differentiate between eustatic and relative sea level curve. Discuss the relationship between eustacy, accommodation space and sedimentation.  Differentiate between hydrocarbon source and reservoir rocks. Elaborate the

- Q. No. 8. Write short notes on any TWO of the following:
  (a) Coal rank and coal series.
  - **(b)** Geological controls on the selection of mega dam sites.
  - (c) Occurrences of Radioactive deposits in Pakistan.

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