FEDERAL PUBLIC SERVICE COMMISSION



COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2012

Roll Number

GEOLOGY, PAPER-I

TIME ALLOWED:	(PART-I MCQs)	30 MINUTES	MAXIMUM MARKS: 20		
THREE HOURS	(PART-II)	2 HOURS & 30 MINUTES	MAXIMUM MARKS: 80		
NOTE: (i) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.					
(ii) Attempt ONLY FOUR questions. ALL questions carry EQUAL marks.					
(iii) Extra attempt of any question or any part of the attempted question will not be considered.					

PART-II

Q. 2.	Discuss the internal structure of the earth in the light of seismic velocities.	(20)
Q. 3.	Briefly describe the theory of plate tectonic. Also comment on Indian-Eurasian collision and formation of Himalayas.	(20)
Q. 4.	Discuss the physical properties of minerals dependant on light.	(20)
Q. 5.	Discuss the process of fossilization in detail.	(20)
Q. 6.	Discuss the six general shapes of unit cell.	(20)
Q. 7.	Describe the stratigraphy of Khewra Gorge.	(20)
Q. 8.	Discuss the regional metamorphism with relation to Indian plate margin in Pakistan.	(20)

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TIME ALLOWED:

(b) Aquifer types

THREE HOURS

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Roll Number

(10)

MAXIMUM MARKS: 20

MAXIMUM MARKS: 80

GEOLOGY, PAPER-II

30 MINUTES

2 HOURS & 30 MINUTES

(PART-I MCQs)

(PART-II)

NOTE	: (i) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. P.				
(ii) Attempt ONLY FOUR questions. ALL questions carry EQUAL marks.					
	(iii) Extra attempt of any question or any part of the attempted question will not be considered.				
	PART-II				
Q. 2.	Discuss the mineralization associated with pegmatites.	(20)			
Q. 3.	Discuss the genesis of primary kaolin deposits of Pakistan. Also describe the different end uses of this commodity.	(20)			
Q. 4.	Describe the theories regarding the origin of hydrocarbons. Also discuss the primary migration of hydrocarbons.	(20)			
Q. 5.	Discuss the occurrence, stratigraphy and reserves of coal deposits in Salt range (Cis and Trans Indus).	(20)			
Q. 6.	Discuss the different types of slope failure and their stability techniques.	(20)			
Q. 7.	Discuss the different geochemical prospection techniques.	(20)			
Q. 8.	Write notes on the following: (a) Hydrological cycle	(10)			
