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

Roll Number

GEOLOGY, PAPER-II

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 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)**
(b) Aquifer types **(10)**

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