

**B-7**

Roll No. \_\_\_\_\_

Total No. of Questions : 14]

[Total No. of Printed Pages : 4

**XIIRSZJF19**  
**22007**  
**GEOLOGY**

Time : 3 Hours]

[Maximum Marks : 70

(Long Answer Type Questions)

5 each

1. Give a detailed account of pyroclastic materials thrown out by a volcano.

*Or*

What do you mean by the term Seismology ? Give Richter scale of earthquake intensity in detail.

2. Name the various methods for the finding of age of the earth. Explain  $C^{14}$  method in detail.

*Or*

Explain the internal structure of Earth with a suitable diagram.

3. Describe the morphological features of typical Bivalvia with a neat sketch. Mention any *two* genera of this class.

*Or*

Write morphological features of Trilobita with a neat diagram. Mention any *two* genera of this class.

XIIRSZJF19-22007

Turn Over

**B-7**

4. Discuss in detail the distribution of petroleum deposits in India.

*Or*

What are the important ores of Aluminium ? Explain in detail the various areas of their distribution in India.

**(Short Answer Type Questions)**

3 each

5. Mention any *three* seismic belts of the world.
6. Explain any *six* applications of remote sensing in our life.
7. Name any *three* remote sensing platforms. Explain any *one* of them in concise form.
8. Explain uranium lead ratio method for finding age of the Earth.
9. Give the systematic position of Spirifer.
10. Explain tertiary coal fields of Gondwanaland.
11. Name any *four* types of aerial photographs. Explain concisely any *one* of them.
12. Give physical characters of Haematite and Chalcopyrite.

**(Very Short Answer Type Questions)**

2 each

13. Answer the following very short answer type questions in a few words or a few sentences :
- (i) Distinguish between Crater and Caldera.
- (ii) What do you mean by Mohorovicic discontinuity ?
- (iii) Give the systematic age of Productus and Paradoxides.

- (iv) Explain asymmetrical fold and overturned fold.
- (v) Name localities of Sapphire and Bauxite in J & K state.
- (vi) Name any *two* types of unconformities.
- (vii) Differentiate between Horst and Graben.
- (viii) Explain briefly normal fault in your own words.

**(Objective Type Questions)**

1 each

14. (A) Fill in the blanks with suitable and most appropriate answer :
- (i) The age of Pecten is .....
  - (ii) The core consists of Nickel and .....
- (B) Give one word substitution for the below given sentences :
- (iii) If the dip of the fault is in upthrow side it is called.
  - (iv) Ladda in J & K is famous for which type of coal.
- (C) Write True or False in your answer-book :
- (v) The density of Earth's crust is  $5.51 \text{ g/cm}^3$ .
  - (vi) Remote sensing helps us in weather forecasting.
- (D) Choose the most correct answer and write it in your answer-book : <https://www.jkboseonline.com>
- (vii) Unconformities help us in locating :
    - (A) Petroleum deposits
    - (B) Geological past
    - (C) Missing time
    - (D) All of these

- (viii) The range of shallow focus earthquakes is
- (A) Less than 70 km
  - (B) Less than 30 km
  - (C) Greater than 70 km
  - (D) None of these
- (ix) Large faults within the Earth's crust result from the *action* of :
- (A) Plate tectonic
  - (B) Surface causes
  - (C) Volcanic causes
  - (D) All of these
- (x) Volcanoes benefit us by means of :
- (A) Volcanic ash used in many soap *making*
  - (B) Forming fertile land
  - (C) Geothermal power, precious gems and minerals
  - (D) All of these