

Roll No :

Total No. of Questions : 11]

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SP-691

M.Sc. (Final) Examination, 2021

GEOLOGY

Paper - VI

(Sedimentology and Petroleum Geology)

Time : 1½ Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit 50 words). Each question carries 2 marks.

(खण्ड-अ)

(अंक : 2 × 10 = 20)

नोट :- सभी दस प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 50 शब्द)। प्रत्येक प्रश्न 2 अंक का है।

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit 200 words). Each question carries 5 marks.

(खण्ड-ब)

(अंक : 5 × 5 = 25)

नोट :- सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन कीजिए (उत्तर-सीमा 200 शब्द)। प्रत्येक प्रश्न 5 अंक का है।

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit 500 words). Each question carries 10 marks.

(खण्ड-स)

(अंक : 10 × 3 = 30)

नोट :- पाँच में से किन्हीं तीन प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 500 शब्द)। प्रत्येक प्रश्न 10 अंक का है।

BI-332

(1)

SP-691 P.T.O.

Section–A

2 each

1. (i) Describe Soil Profile.
- (ii) Explain Mineral Stability.
- (iii) Write note on Sediment Maturity.
- (iv) Explain the Petrography of Rudaceous Rocks.
- (v) Define Basin Analysis.
- (vi) Describe Shallow Water Carbonates.
- (vii) Describe chemical and physical properties of Petroleum.
- (viii) Write note on Migration of Petroleum.
- (ix) Describe Isopach Map.
- (x) Name the Formations Act as Source Rocks and Hart Rocks of Petroleum in Jaisalmer Basin.

Section–B

5 each

2. Discuss mineral composition of elastic rocks.

Or

Discuss mechanical structures of sedimentary rocks.

3. Describe modes of transportation of elastic sediments.

Or

Discuss the petrography of sandstones.

4. Describe deep sea basin.

Or

Outline the process of reconstruction of Palaeoenvironment.

5. Discuss the classification of pore space ?

Or

Discuss the classification of reservoir rocks.

6. Write about elements of well drilling and logging.

Or

Discuss the geology of Petroliferous Basins of Assam.

Section–C

10 each

7. Discuss textures of elastic rocks.

8. Discuss the classification of sedimentary rocks.

9. Define Sedimentary Environments. Explain the factors affecting sedimentary environment.

3+7=10

10. Describe various types of Reservoir Traps.

11. Discuss the principles and techniques of petroleum exploration.