

(b) Pratts Hypothesis. 4

(c) Types of Geosyncline. 4

OR

(d) Core of the Earth. 4

(e) Airy's Hypothesis. 4

(f) Evolution of Geosyncline. 4

5. What are plate-Tectonics ? Describe the various types of plate margin along with its characteristics.

OR

What is continental drift ? Describe the F.B. Taylor concept of continental drift. 12

6. Describe in detail the occurrence and distribution of Ground water.

OR

What is Aquifer ? Describe the various types of aquifer in detail. 12

AR - 585

Fifth Semester B. Sc. (Part - III) Examination

5S: GEOLOGY

P. Pages : 5

Time : Three Hours]

[Max. Marks : 80

Note : (1) All questions are compulsory.
(2) Draw neat sketches wherever necessary.

1. Fill in the blanks :—

(i) Crust and Mantle is separated by an —.

(ii) The geological formation of impervious material which does not transmit ground water is known as —.

(iii) Near the craton, where there is a thinner development of sediments with lacks of volcanic rock are —.

(iv) The type of overturned fold in which axial plane is almost horizontal is called —. 2

(B) Choose the correct alternatives :—

(i) The attitude of bed is composed of

(a) Strike (b) Dip

(c) Strike and dip (d) None of above.

(ii) The least porous and permeable rock are

- (a) Granite (b) Limestone
(c) Sandstone (d) Clay.

(iii) The concept of continental drift first time proposed by

- (a) Alfred Wegner (b) William Gilbert
(c) F. B. Taylor (d) J. W. Morgan

(iv) The zone in which the water held by the roots of plants is known as —

- (a) Zone of Airation
(b) Zone of saturation
(c) Soil-water zone
(d) Capillary-zone. 2

(C) Answer in **one** sentence :—

- (i) What are Tensional-joints ?
(ii) Define Isostasy.
(iii) What is perched water-table ?
(iv) What are Mid-oceanic ridges ? 4

2. Explain the following :—

- (a) Recognition of unconformity. 4

(b) Brunton compass. 4

(c) Disconformity. 4

OR

(d) True thickness and apparent thickness. 4

(e) Para unconformity. 4

(f) Onlap-offlap. 4

3. Explain the following :—

(a) Fold and its parts. 4

(b) Monocline and Homocline. 4

(c) Geometrical classification of joints. 4

OR

(d) Recognition of fold in the field. 4

(e) Columnar joints. 4

(f) Significances of joints. 4

4. Describe the following :—

(a) Crust of the Earth. 4

7. Describe the following :—

- | | |
|------------------------------------|---|
| (a) Deccan-trap-province. | 4 |
| (b) Influent and Effluent seepage. | 4 |
| (c) Cone of depression. | 4 |

OR

- | | |
|--|---|
| (d) Pre-cambrian crystalline province. | 4 |
| (e) Darcy's law. | 4 |
| (f) Recharge of Ground water. | 4 |



