

First Semester B. Sc. (Part - I) Examination

New

GEOLOGY

I.S.

P. Pages : 4

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) All the questions are compulsory.
(2) Draw neat and well labelled diagram where necessary.

1. (A) Fill in the blanks :—

- (i) Garnet is _____ between cross-nicol.
- (ii) Crystals are classified on the basis of—
_____.
- (iii) Vibration within the Earth crust are called as _____.
- (iv) The Mineral_____ shows cherry red colour streak. 2

(B) Choose the correct alternatives :

- (i) Nicol are said to be crossed when nicol are :
 - (a) Right angle to each other.
 - (b) Parallel to each other.
 - (c) Oblique to each other.
 - (d) None of above.

(ii) Diamond is characterised by :

- (a) Waxy luster. (b) Silky luster.
(c) Admantine luster. (d) Earthy luster.

(iii) Universely agreed figure about the age of Earth is :

- (a) 6.4 B.Y. (b) 4.2 B.Y.
(c) 3.4 B.Y. (d) 4.6 B.Y.

(iv) The instrument which design to record earth motion set up by seismic waves is called —

- (a) Seismograph. (b) Seismogram.
(c) Cardiogram. (d) Hologram. 2

(C) Answer the following in One/Two sentences:

- (i) What are Sand-dune ?
(ii) What is Becke-line ?
(iii) What is Lithosphere ?
(iv) What is Radio-activity ? 4

2. Explain the following :—

- (a) Scope and importance of Geology. 4
(b) Crust of Earth 4
(c) C¹⁴ method. 4

OR

- (d) Nebular Hypothesis. 4
- (e) Composition of core. 4
- (f) Potassium-Argon method. 4

3. Explain the following :—

- (a) Frost wedging. 4
- (b) Wind-erosion. 4
- (c) Meanders and oxbow lake. 4

OR

- (d) Sand-dunes. 4
- (e) Water fall. 4
- (f) Spheroidal weathering. 4

4. What are Volcanoes ? Describe the different types of volcanic eruption.

OR

What is diastrophism ? Describe the orogenic and epeirogenic movement in detail. 12

5. What is Mineral ? Describe the various physical properties of mineral.

OR

Describe the various structures of silicates. 12

6. Explain the following :—
- (a) Contact Goniometer. 4
 - (b) Law of symmetry. 4
 - (c) Symmetry characters of Tetragonal system. 4

OR

- (d) Element of crystal. 4
 - (e) Classification of crystals. 4
 - (f) Centre of symmetry. 4
7. Explain the following :—
- (a) Equipments of surveying. 4
 - (b) Numbering of Toposheet. 4
 - (c) Latitude and longitude. 4

OR

- (d) Theodolite survey. 4
- (e) Conventional sign. 4
- (f) Uses and aim of surveying. 4

