

Total No. of Questions :5]

SEAT No. :

[Total No. of Pages :2

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[5215] - 12

F.Y.B.Sc.

GEOLOGY

Physical Geology and Palaeontology

(2013 Pattern) (Paper - II)

Time : 3 Hours]

[Max. Marks :80

Instructions to the candidates:

- 1) All questions are compulsory.*
- 2) Figures to the right indicate full marks.*
- 3) Neat labelled diagrams must be drawn wherever necessary.*

Q1) Answer the following questions:

[16]

- a) Define Palaeontology.
- b) What are disasters?
- c) Draw diagram to show various types of septa in corals.
- d) Define Isostasy.
- e) Give any two uses of fossils.
- f) What is continental drifting?
- g) What are residual mountains.
- h) Define sampling. Mention two types of sampling methods.

Q2) Answer the following questions (any four)

[16]

- a) Describe the Earth's Lithosphere.
- b) Explain the different types of sutures in Ammonoids.
- c) Explain the concept of Plate tectonic theory.
- d) Briefly describe the hard part morphology of Lamellibranch Shell.
- e) Describe the various effects of disasters.
- f) Describe the Apical disc in Regular Echinoids.

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Q3) Answer the following questions (any four) **[16]**

- a) Explain the life during Mesozoic Era.
- b) Describe the various products of Volcanic activity.
- c) Explain the internal structure of the Earth.
- d) What are Echinoids? Give their geological and geographical distribution.
- e) What are Earthquakes? Explain the terms focus, epicentre and isoseismal lines.
- f) Describe Imprints and Carbonisation mode of fossil preservation.

Q4) Answer the following questions (any two) **[16]**

- a) Describe
 - i) Potholes
 - ii) Mushroom Rock
 - iii) Yardangs.
- b) Give an account of any four forms shown by Gastropod Shells.
- c) Explain the erosional landforms formed by sea action.
- d) Describe the hard part morphology of a Trilobite.

Q5) Define Geology. Explain the Nebular Hypothesis to explain the origin of the Solar System. Add a note on the size, shape and average density of the earth. **[16]**

OR

- a) Describe the hard part morphology of a typical Brachiopod Shell. **[8]**
- b) Define a fossil. Explain the conditions necessary for fossilization. **[8]**

