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MGH 451

Second Semester M.Sc. Degree Examination, September/October 2022
(CBCS)
MARINE GEOLOGY
Structural Geology and Hydrogeology

Time : 3 Hours

Max. Marks : 70

Instruction : Answer **all** the questions.

I. Define/state the following :

(10×1=10)

- 1) Graded bedding
- 2) Dip and strike
- 3) Axis and axial plane
- 4) Torsion force
- 5) Master joints
- 6) Aquiclude
- 7) Specific capacity
- 8) Drainage basin
- 9) Spring
- 10) Piezometric surface.

II. Write short notes on **any five** of the following :

(5×4=20)

- 11) Relationship of structural geology with other branches of geology.
- 12) Stress and strain diagram.
- 13) Recognition of unconformity in the field.
- 14) Mechanism of faulting.
- 15) Types of aquifer.
- 16) Rainwater harvesting.
- 17) Physical and chemical properties of water.
- 18) Porosity and permeability.

P.T.O.



III. Answer **any four** of the following :

(4×5=20)

- 19) Ramsay's classification of fold.
- 20) Genetic classification of faults.
- 21) Types of unconformity.
- 22) Artificial recharge of groundwater.
- 23) Darcy's law and its validity.
- 24) Electrical resistivity method in groundwater investigation.

IV. Answer the following :

(2×10=20)

- 25) What is a fold ? Give the classification of folds with neat diagrams and label the parts.

OR

What are joints ? Give the classification of joints with neat diagrams.

- 26) Discuss in detail the saline water intrusion phenomenon and how it affects the coastal groundwater system.

OR

Explain in detail various sources and causes of groundwater pollution. Discuss about its affect on human health.
