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GIS 454

II Semester M.Sc. Degree Examination, September/October 2022

(CBCS)

GEOINFORMATICS

Applied Geomorphology and Geo-Environmental Sciences

Time : 3 Hours

Max. Marks : 70

Instruction : Answer *all* the questions.

I. Define **any five** of the following :

(5×2=10)

- 1) Ocean floor.
- 2) Geomorphic evolution.
- 3) SWM.
- 4) Cartography.
- 5) DEM.
- 6) Open cast mining.
- 7) Noise Standards.

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

(5×4=20)

- 8) Hinter Land Terrains.
- 9) EMP.
- 10) Coastal Regulation Zone.
- 11) Risk area mapping.
- 12) Karst and Dune.
- 13) Forest Fire.
- 14) IKONOS Satellite.

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

(4×5=20)

- 15) Explain the concept of modern geomorphology.
- 16) Define mid-ocean ridge and explain the same.
- 17) What are the steps involved in reconnaissance mapping of mining area ?
- 18) Explain the impacts of slope in geomorphic environment.
- 19) Discuss the geometry of aerial photographs.

IV. Essay type questions.

(2×10=20)

- 20) What is the role of Geomorphology and GIS techniques in exploration of minerals ?

OR

How quantitative interpretations of risk area mapping is done on Tsunami affected terrains using GIS tools ?

- 21) Explain the preparedness and mitigation in handling hazardous waste from nuclear power plants.

OR

With the help of flowchart explain the development of smart city plan for coastal city.
