

Total No. of Printed Pages—4

6 SEM TDC GEO M 5

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(May)

GEOLOGY

(Major)

Course : 605

(Environmental Geology and Remote Sensing)

Full Marks : 48

Pass Marks : 19

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

UNIT—23.1

(Environmental Geology)

(Marks : 24)

1. Define flood. Describe the different causes of flood. Write on the preventive measures to be adopted for mitigation of flood hazard. 1+4+3=8

Or

What are the different types of landslides?
Write on the causes of landslide and
preventive measures to be taken to avoid
landslide.

2+3+3=8

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Or

What are the different types of landslides?
Write on the causes of landslide and
preventive measures to be taken to avoid
landslide.

$2+3+3=8$

(2)

2. How does groundwater get polluted? What are the pollutants found in groundwater? What are the means to be adopted to prevent groundwater pollution?

3+2+3=8

Or

Write on environmental impacts due to opencast mining giving examples from North-East India.

8

3. Write briefly on any *two* of the following :

3×2=6

- (a) Earthquake preparedness
- (b) Pollution of marine water
- (c) Radioactive waste disposal
- (d) Riprap and gabion

4. Expand the abbreviations :

1+1=2

- (a) BOD
- (b) EIA

(3)

UNIT—23.2

(Remote Sensing)

(Marks : 24)

5. Describe the technique of taking aerial photographs. 8

Or

Write on various remote sensing platforms.
Describe the components of an MSS sensor.

4+4=8

6. Write on the methods of interpretation of satellite data. 8

Or

Write on applications of remote sensing and aerial photography in identification of various rocks.

7. Write briefly on any *two* of the following : 3×2=6

- (a) Electromagnetic spectrum
- (b) Pushbroom scanner
- (c) GPS
- (d) Raster and vector data

8. Fill in the blanks :

1+1=2

- (a) It is possible to take aerial photographs during a rainy/foggy day using — sensor.
- (b) The first Indian remote sensing satellite IRS-1A recorded data in — bands.

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