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6 SEM TDC GEO M 5

2017

(May)

GEOLOGY

(Major)

Course : 605

(Environmental Geology and Remote Sensing)

Full Marks : 48

Pass Marks : 19/14

Time : 2 hours

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

UNIT—23.1

(Environmental Geology)

(Marks : 24)

1. Write on the causes and types of landslides
(mass movement). 4+4=8

Or

Describe how dumpings of mine wastes
impact on environment. Write on the
processes of reclamation of the waste for
useful purpose. 5+3=8

(2)

2. Write on the effects of earthquake. Describe the methods of coping with earthquake hazard. 4+4=8

Or

Explain the causes of pollution of ground-water. Give an account of groundwater contamination in Assam. 5+3=8

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

- (a) Industrial waste disposal
- (b) The Environment (Protection) Act, 1986
- (c) The Forest (Conservation) Act, 1980

4. Fill in the blanks : 1×2=2

- (a) Vitrification is the process of management of _____ waste.
- (b) Gabions are used to prevent erosion due to _____.

UNIT—23.2

(Remote Sensing)

(Marks : 24)

5. Write on various remote sensing platforms and their uses. 8

Or

Write on the uses of different aerial photographs. What are the advantages and limitations of aerial photographs over remote sensing data? 5+3=8

6. Describe how various geological structures are interpreted in remote sensing data. 8

Or

Write on the methods of interpretation of satellite data. 8

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

- (a) Microwave sensors
- (b) Components of GIS
- (c) Electromagnetic spectrum

8. Fill in the blanks : 1×2=2

- (a) Minimum _____ number of satellites are essential to locate the plate with GPS.
- (b) The first remote sensing satellite which used two pushbroom scanners was _____.
