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**6 SEM TDC GEO M 5**

**2 0 1 9**

( 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. What are the causes of landslides? Describe the various types of landslides. 4+4=8

Or

Write on environmental impact of opencast mining and dumping of mine wastes. 4+4=8

( 2 )

2. Describe the causes of marine water pollution. Write on its effects and the preventive measures. 4+4=8

Or

Write on the Indian Environmental Laws. 8

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

- (a) Earthquake mitigation
- (b) Industrial waste disposal
- (c) Preparedness for mitigation of flood damage

4. Fill in the blanks : 1×2=2

- (a) \_\_\_\_\_ is a method of waste disposal where solid waste is subjected to combustion.
- (b) The permissible limit of flouride in drinking water is \_\_\_\_\_ mg/litre.

UNIT—23.2

( Remote Sensing )

( Marks : 24 )

5. Describe the electromagnetic spectrum. Different remote sensing sensors are used in different parts of the electromagnetic spectrum. Correlate the sensors with parts of the spectrum. 2+6=8



Or

Describe the basic principles and procedure of taking aerial photographs. 8

6. Describe the characteristics of horizontal and dipping beds, folds and fault in aerial photograph and remote-sensing data. 8

Or

What is GIS? Write briefly on the components and data structures of GIS. 2+6=8

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

(a) Geostationary and polar orbiting remote-sensing satellites

(b) Pushbroom scanner

(c) Interpretation of digital satellite data

8. Fill in the blanks : 1×2=2

(a) Hot objects can be detected in night using \_\_\_\_ sensor.

(b) Full form of SLAR is \_\_\_\_.

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