

AQ - 1035

Third Semester M. Sc. (Part - II) Examination

ENVIRONMENTAL SCIENCE

Paper - X

(Remote Sensing - GIS and Computer Applications)

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

Note : All questions are compulsory and carry equal marks.

1. Describe in brief :—

- (a) Historical perspective of remote sensing. 5
- (b) EMR spectrum (Electromagnetic Radiation). 5
- (c) Black body and real body radiation. 6

OR

- (d) Hemispheric reflectance. 5
- (e) Absorbance 5
- (f) Application of remote sensing in water resources. 6

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2. Describe in brief :—

(g) Interaction of electro magnetic radiation with earth surface 5

(h) Spectral signature. 5

(i) Types of remote sensing. 6

OR

(j) Geostationary satellites. 5

(k) Scattering and absorption in the atmosphere. 5

(l) Characteristics of remote sensing. 6

3. Define aerial photography. Describe in detail various types of films.

OR

Describe in detail applications of remote sensing in agriculture, forestry water resource and wetland mapping. 16

4. Describe in brief :—

(m) Characteristics of computer. 5

(n) Main parts of PC. 5

(o) Chi-square test 6

OR

(p) Arithmetic Mean. 5

(q) Linear equation. 5

(r) Application of computers. 6

5. Describe in detail definition, capabilities and advantages of Geographical information system.

OR

Define data structure. Describe in detail relational and hierarchical data structure. 16

