and land cover mapping?

Course Code : SH/ENV/305/SEC-1

SH-III/ENV/305/SEC-1/19

B.Sc. 3rd Semester (Honours) Examination, 2019-20 ENVIRONMENTAL SCIENCE

Course ID : 31815

Course Title: Remote Sensing, Geographic Information System and Modeling

Time: 1 Hour 15 Minutes Full Marks:	25
The figures in the margin indicate full marks.	
1. Answer any <i>five</i> questions:	1×5=5
(a) What is EMS?	
(b) What is network analysis in GIS?	
(c) Define spatial resolution.	
(d) What is IFOV?	
(e) What is vector data structure?	
(f) Among the three measures of central tendency, which is most sensitive?	
(g) What is simple random sampling?	
(h) What do you mean by Linear regression?	
2. Answer <i>any two</i> questions: 5:	×2=10
(a) What is GIS? Briefly describe the different key components of GIS?	1+4
(b) Answer <i>any two</i> from the given below:	2·5×2
(i) Data manipulation (ii) Spectral signature (iii) LANDSAT	
(c) Define Sun-synchronous satellite. What are the major application of these satellite?	1+4
(d) Discuss about different types sensors used in the remote sensing.	
3. Answer any <i>one</i> question: 10:	×1=10
(a) Describe how remote sensing and GIS techniques are used for natural resource management.	
(b) How can one apply the best use of remote sensing and GIS technology as a tool for lar	nd use