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Question Paper Code: 59171

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Open elective

Computer Science and Engineering

15UCE971- REMOTE SENSING AND GIS

(Common to ECE, EEE, EIE, Mechanical, IT, Chemical)

(Regulation 2015)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. Leaf reflectance depends primarily on: CO1- R
(a) The pigments (b) internal cell structure
(c) equivalent water content (d) All of these
2. A reduction of nitrogen nutrient in plants CO1- R
(a) affects leaf colour (b) reduces pigment concentration
(c) increase the visible reflectivity (d) All of these
3. The altitude of a Geo-stationary satellite from the earth surface is CO2- R
.....
(a) 30,000 km (b) 36,000 km (c) 26,000 km (d) 44,000 km
4. A scanning system used to collect data over a variety of different CO2- R
wavelength ranges is called
(a) RADAR systems (b) Multispectral scanning
(c) Microwave sensors (d) Active sensors
5. The arrangement of individual objects in distinctive nature is CO3- R
(a) Pattern (b) Association (c) Texture (d) Tone

6. Drawing of boundaries around distinct regions of the image characterized by specific tones or texture is called CO3- R
- (a) Association (b) Texture
(c) Tone (d) Delineation
7. The attributes refers to the properties of spatial entities is CO4- R
- (a) Spatial data (b) Non spatial data (c) Complex data (d) Above the all
8. The graphical representation of the earth features is called CO4- R
- (a) Scale (b) Map (c) Projection (d) None of these
9. ----- is made up of pixels and also referred to as grid cells. CO5- R
- (a) Spatial data (b) Raster data (c) Vector data (d) All the above
10. The 'boundary model' is sometimes also called CO5- R
- (a) Topological data model (b) Temporal data model
(c) Topological discrete model (d) Temporal discrete model

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Explain the atmospheric interaction with electromagnetic radiation. CO1- U (8)
12. Describe the various types of resolutions of satellite imageries. CO2- U (8)
13. What are the differences between supervised and unsupervised classification? CO3-U (8)
14. Discuss about GIS data base file management.. CO4- U (8)
15. Explain the data entry methods used in GIS. CO5- U (8)

