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M.Sc. (IIIrd Semester) Examination, 2021
FARM FORESTRY

(Forest Surveying, Remote Sensing, GIS & GPS)

Time Allowed : Three Hours

Maximum Marks : 70

SECTION - A

Note : Attempt any ten questions. Each question carries

one mark.

10×1=10

Q. 1. Objective type :

(i) An imaginary line joining the points of equal

elevation on the surface of earth is known as

_____.

(ii) A body of water on a topographic map is

presented by _____ colour.

(2)

(iii) Survey of India, Map publication Directorate is

located at _____.

(iv) IIRS is located at _____.

(v) GPS unit utilizes _____ to locate points.

(vi) Optimum season for aerial photography for

teak in South India is _____ :

(a) July-August

(b) September-October

(c) January-February

(d) March-April

(vii) The quickest possible way for the inventory

and monitoring of the natural resources is

through the applications of _____

technologies :

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(3)

- (a) Remote sensing
 - (b) Geographic information system
 - (c) Global positioning system
 - (d) All the above
- (viii) NNRMS headquarter in India is located at :
- (a) Hyderabad
 - (b) Dehradun
 - (c) New Delhi
 - (d) Kolkata
- (ix) The vertical distance between consecutive contour lines is called _____ :
- (a) Isohyets
 - (b) Least count
 - (c) Ranging
 - (d) Contour interval

(4)

- (x) Chain survey deals with _____ measurement :
- (a) Linear
 - (b) Preliminary
 - (c) Aerial
 - (d) Traverse
- (xi) Maps are of following types :
- (a) Ortho photomaps
 - (b) Topographic
 - (c) Planimetric
 - (d) All the above
- (xii) The forest survey of India (FSI) conducts forest cover survey once in every ?
- (a) 2 years
 - (b) 10 years
 - (c) 5 years
 - (d) 4 years

(5)

SECTION - B

Note : Attempt any five questions. Each question carries 2 marks. **5×2=10**

Q. 2. Very Short Answer Type (25-30 words) :

- (i) Forest surveying
- (ii) Remote sensing
- (iii) Sensors
- (iv) Aerial photography
- (v) Forest maps
- (vi) Compass surveying
- (vii) Forest engineering

SECTION - C

Note : Attempt any five questions. Each question carries 4 marks. **4×5=20**

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(6)

Q. 3. Short Answer Type (250 words) :

- (i) Utility of forest maps.
- (ii) Use of GPS.
- (iii) Principles of remote sensing.
- (iv) Different methods of chain surveying.
- (v) Objectives of forest surveying.
- (vi) Classification of forest roads.
- (vii) Principles of forest engineering.

SECTION - D

Note : Attempt any three questions. Each question carries 10 marks. **3×10=30**

Q. 4. Essay Type (more than 500 words) :

- (i) Describe remote sensing and GIS applications in forestry.

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(7)

- (ii) Explain in detail about aerial photography and photogrammetry.
- (iii) Describe the proper orientation for ideal forest buildings.
- (iv) Describe the major principles of designing roads in remote forest areas along with diagram.

OR

Describe in detail about construction of timber and other bridges.

