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E-7433

M.Sc. (III[rd] 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.

(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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(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

(x) Chain survey deals with _____ mesurement :

(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

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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**

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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(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.

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