ARUNACHAL PRADESH PUBLIC SERVICE COMMISSION, ITANAGAR

SUBJECT : FORESTRY

Time: 3 Hours

Full Marks: 200

10×4=40

Note: Attempt Five questions in all. Question No. 1 is compulsory. All questions carry equal marks.

Q. No. 1 Attempt any 10 (ten).

- A. What is the main source of funds for WWF? List out the names of projects that have received WWF assistance in India.
- B. What is pecking order?
- C. What are fillers and their functions?
- D. Write on role of producers, consumers and decomposers in an ecosystem.
- E. What is riparian buffer?
- F. What are shelterbelts and windbreaks?
- G. Write down the distinguishing features of an ecotone.
- H. Write down the composition of state wild life advisory board.
- I. What information is provided by floral diagram?
- J. What are polyaxial and mono axial trees?
- K. What is case hardening?
- L. What are coppice, seedling coppice, stool coppice and root collar shoots?
- Q. No. 2. Attempt any 8 (eight).
- A. What are the requirements of a good fire retardant agent? Name five chemicals that are used in protection of timber.
- B. Explain mutualism and commensalism with suitable examples.
- C. What are the principle activities of FSI?
- D. What is the importance of phenology in silviculture?
- E. What were the paramount needs for formulation of National Forest Policy of 1952?
- F. Write down the advantages and disadvantages of power saws.
- G. Explain the use of satellite and large scale imagery in resource mapping.
- H. Write down the reasons of root coiling in polythene bags. How will you overcome this problem?
- I. What precautions are taken while using calliper and tape?
- J. What are general combining ability and specific combining ability?
- Q. No. 3. Attempt any 5(five).
- A. What are thermosetting and thermoplastic adhesives? Discuss some important synthetic adhesives used in composite woods.
- B. What do you know about generic name and specific epithets?
- C. What rules should be followed during felling of trees in forest?
- D. Write a note on protection of forest trees against injury by insects.
- E. Describe the photomensurational techniques used in preparation of stand and tree volume tables.

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5×8=40

8×5=40

F. Discuss the common methods of testing the seed viability.G. Write down on skidding practices used for transportation of timbers.	
Q. No. 4. Attempt any 4 (four).	4×10=40
 A. Discuss the advantages of cross banded construction of plywood over use of solid w B. What is the role of NGOs in JFM activities? C. Discuss the functions and achievements of IBWL. D. Explain the benefits from agroforestry. E. Write down the principle of Christen's hypsometer and its uses. 	rood.
Q. No. 5. Attempt any 2 (two).	2×20=40
A. Differentiate between gums and resins. Discuss true resins and their uses.B. What are seed orchards? Discuss the establishment and management of seed orchard.C. Explain briefly the shelter wood coppice system.	rds.
Q. No. 6.	40
"Forests play a vital role in socio-economic and cultural life of tribal people." statement.	Discuss this
Q. No. 7.	40
Give important reasons for changes in plant names mentioning examples of Indi trees. Give a brief account of the International code of Botanical Nomenclature the most important articles.	

Q. No. 8.

What is water pollution? Discuss its causes, effects and control measures.

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