

2008

10097

FORESTRY (Optional)

वनशास्त्र (वैकल्पिक)

Time : 3 hours

Maximum Marks : 200

Note :

- (i) *In all attempt Five questions.*
- (ii) *Question number 1 is compulsory.*
- (iii) *Of the remaining questions, attempt Any Four by selecting one question from each section.*
- (iv) *Numbers of optional questions up to the prescribed number in the order in which questions have been solved, will only be assessed and excess answers of the question/s will not be assessed.*
- (v) *Candidate should not write roll number, any name (including his/her own), signature, address or any indication of his/her identity anywhere inside the answer book otherwise he/she will be penalised.*

1. Answer in short *any four* of the following : 4x10=40
 - (a) Describe the problems of neem seed.
 - (b) Explain the concept of provenance and seed source.
 - (c) Explain sustained yield.
 - (d) Give the importance of forest working plans.
 - (e) Describe the merits and demerits of WTO for India.

SECTION - A

2. Give short answers of the following :
 - (a) Write advantages of bare rooted and containerized seedlings. Also quote some examples of each type. 15
 - (b) Explain shelterwood system with examples of trees. 15
 - (c) Describe the methods to raise seedlings of *Eucalyptus*. 10
3. Answer the following questions in brief :
 - (a) Explain the methods to raise plantations on alkaline soil. 15
 - (b) Explain selection system with the examples. 15
 - (c) List out the methods for regeneration of teak. 10

P.T.O.

SECTION - B

4. (a) Define agroforestry. What are its advantages ? 15
 (b) Explain nutrient cycling in forest ecosystems. 15
 (c) List out the effects of global warming on forests. 10
5. Give answers of the following questions in short :
- (a) Explain JFM particularly its impact. 15
 (b) Describe the symptoms of micro-nutrients and their remedies. 15
 (c) Name the pollutants affecting the soil. Explain remedial measures for them. 10

SECTION - C

6. Answer the following questions in brief :
- (a) Explain the types of rotations. What is their effect on yield ? 20
 (b) Describe the types of increments. How these are related with productivity ? 10
 (c) Describe the methods to develop trenches. 10
7. Answer in brief :
- (a) Define social forestry. Name important species and give its impact on Indian society. 20
 (b) Explain the advantages of Remote Sensing and GSI techniques. What are their shortcomings ? 10
 (c) Describe the methods for development of terraces. 10

SECTION - D

8. Answer in short :
- (a) Describe the structural aspects of an ecosystem. 10
 (b) Explain the methods for extraction of *katha*. 10
 (c) Define succession. Explain this process on sand dune areas with examples of plants. 20
9. (a) Explain the role of climate in the distribution of plants. 10
 (b) Describe forest based industries in brief. 10
 (c) Define wildlife. What are the methods for conservation of wildlife ? 20

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