MA RURAL DEVELOPMENT
FOURTH SEMESTER
RURAL TECHNOLOGY
MRD-406 (MDC)

(Use separate answer scripts for Objective & Descriptive)

Duration : 3 hrs. Full Marks : 70

[PART-A : Objective]

Time : 20 min. Marks : 20

Choose the correct answer from the following: *1x20=20*

1. Vermiculture produces .....times more plant nutrients.
   a. 10-20 b. 20-30
   c. 30-40 d. 40-50

2. For Vermicompost tank.....per cent humidity is required.
   a. 60-70 b. 50
   c. 20-30 d. 40-50

3. Wild Mushroom contains much higher amount of vitamin.....
   a. D b. D_2
   c. A d. C

4. Brown plant materials such as fall leaves and branches are relatively high in.....
   a. Carbon b. O_2
   c. N d. H_2O

5. Rural Business Hubs is an initiative by the Ministry of.....
   a. Agriculture b. Rural Development
   c. Panchayat Raj d. HR

6. Apis dorsata commonly called as.....
   a. Asian bee b. Little bee
   c. Rock bee d. European bee

7. The aquatic weeds can be defined as .....and.....plants.

8. Solar energy is considered as.....
   a. Renewable Energy b. Non-Renewable Energy

9. Fish liver oil is a natural source of.....
   a. Vitamin A b. Vitamin B
   c. Vitamin D d. Vitamin A &D

10. The place where the honey bees are reared is called.....
    a. Apicy b. Epiary
    c. Apiary d. Epicy

11. Drones are the .....in the honey comb.
    a. Worker bee b. Small bee
    c. Fertile male d. None of the above

12. Decomposer need .....for growth for vermicompost.
a. Nitrogen b. Phosphorous
c. Carbon d. Sodium

13. Decomposer need .....for energy for vermicompost.
a. Nitrogen b. Phosphorous
c. Carbon d. Sodium

14. CAPART was set up as a pioneer organization in September:
a. 1980 b. 1985
c. 1986 d. 1990

15. A farmer who keeps bees for their honey:
a. Apiarist b. Apiary
c. Apiaron d. Apitic

16. Green plant material such as grass clippings are relatively high in:
a. Carbon b. Nitrogen
c. Moisture d. Phosphorous

17. IRDP was launched for poverty alleviation in the .....five year plan.
a. 4th five year plan b. 5th five year plan
c. 6th five year plan d. 7th five year plan

18. Mushrooms are one of the best sources of Vitamins especially:
a. Vitamin A b. Vitamin B
c. Vitamin C d. Vitamin D

19. Mushrooms also contain vitamin.....in small amounts.
a. Vitamin A b. Vitamin B
c. Vitamin C d. Vitamin D

20. A honey bee colony typically consists of 4 kinds of adult bees.
a. True b. False

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(PART-B : Descriptive)

Time : 2 hrs. 40 min. **Marks : 50**

[Answer question no.1 & any four (4) from the rest]

1. a. What are the significances of Science and Technology in Rural Development? 5+5=10
b. What are the aim and objectives of Science and Technology in Rural Development?

2. a. What is RBH? 2+8=10
b. Explain the process of establishing RBH.

3. a. Give an account of Vermiculture. 2+8=10
b. Explain the steps involved in vermicompost.

4. a. What are Aquatic weeds? 2+8=10
b. What are the controlling methods for Aquatic weeds?

5. a. Define Pisciculture. 2+6+2=10
b. Explain the economic importance of Fish.
c. Give an outline of Fish preservation techniques.

6. a. What are the characteristics of Apis indica? 5+5=10
b. Give an account of Apis dorsata.

7. a. Define Apiculture. 2+8=10
b. Give an account of Honeybee Farming Scope in India.

8. a. What is energy? 2+8=10
b. What is Renewable and Non-renewable energy? Explain with suitable examples.

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