

**MA RURAL DEVELOPMENT**  
**Fourth Semester (Repeat)**  
**RURAL TECHNOLOGY (MDC)**  
**(MRD – 406)**

**Duration: 3Hrs.**

**Full Marks: 70**

Part-A (Objective) =20  
Part-B (Descriptive) =50

**(PART-B: Descriptive)**

**Duration: 2 hrs. 40 mins.**

**Marks: 50**

**Answer any four from Question no. 2 to 8**  
**Question no. 1 is compulsory.**

1. Define Rural Technology. What are the aims and objectives of Science and Technology for Rural Development? (5+5=10)
2. Define Mushroom cultivation. Explain the medicinal importance of Mushroom. (5+5=10)
3. What is RBH? Explain the process of establishing RBH. (2+8=10)
4. What is Vermiculture? Explain the steps involved in vermicompost. (2+8=10)
5. What is Bio gas? Explain the composition of Biogas. Point out the uses of Biogas. (2+3+5=10)
6. Define Pisciculture. Explain the economic importance of Fish. (2+8=10)
7. What are Aquatic weeds? What are the methods for control of the Aquatic weeds? (2+8=10)
8. What is Apiculture? Explain the importance of Honey. (5+5=10)

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**Duration: 20 minutes**

**Marks – 20**

**(PART A - Objective Type)**

**I. Choose the correct answer:**

**1×20=20**

1. Vermiculture produces .....times more plant nutrients.  
a. 10-20 times                      b. 20-30 times  
c. 50 times                              d. more than 50 times
2. For Vermicompost tank .....per cent humidity is required.  
a. less than 30 %                      b. 30-40 %  
c. 50 %                                      d. 60-70 %
3. IRDP was launched for poverty alleviation in the .....five year plan.  
a. 4<sup>th</sup> five year plan                      b. 5<sup>th</sup> five year plan  
c. 6<sup>th</sup> five year plan                      d. 7<sup>th</sup> five year plan
4. Rural Business Hubs is an initiative by the Ministry of:  
a. Agriculture                              b. Panchayat Raj  
c. Health                                      d. HRD
5. For 30kg of wastes .....kg of worm is required for vermicompost.  
a. 1 kg                                      b. 2 kg  
c. 3 kg                                      d. 4 kg
6. CAPART was set up as a pioneer organisation in September:  
a. 1980                                      b. 1985  
c. 1986                                      d. 1990
7. Green plant material such as grass clippings are relatively high in:  
a. Carbon                                      b. Nitrogen  
c. Moisture                                      d. Phosphorous
8. Brown plant material such as fall leaves and branches are relatively high in:  
a. Nitrogen                                      b. Phosphorous  
c. Carbon                                      d. None of the above
9. Solar energy is considered as:  
a. Non-renewable energy                      b. Renewable energy  
c. Working energy                              d. None of the above

10. Fish Liver Oil is a natural source of:  
a. Vitamin –A                              b. Vitamin B  
c. Vitamin C                                      d. None of these
11. Mushrooms are one of the best sources of Vitamins especially:  
a. Vitamin A                                      b. Vitamin B  
c. Vitamin C                                      d. Vitamin D
12. A honey bee colony typically consists of .....kinds of adult bees.  
a. 5                                      b. 4                                      c. 3                                      d. 2
13. A farmer who keeps bees for their honey:  
a. Apiarist                                      b. Apiary  
c. Apiaron                                      d. Apitic
14. Decomposer need ..... for energy for vermicompost.  
a. Nitrogen                                      b. Phosphorous  
c. Carbon                                      d. Sodium
15. Decomposer need .....for growth for vermicompost.  
a. Nitrogen                                      b. Phosphorous  
c. Carbon                                      d. Sodium
16. In mushroom, the .....content is very low.  
a. Carbohydrates                              b. Fat  
c. Protein                                      d. None of the above
17. Wild mushroom contains much higher amount of:  
a. Vitamin D<sub>3</sub>                                      b. Vitamin D<sub>2</sub>  
c. Vitamin D                                      d. Vitamin E
18. The place where the honey bees are reared is called a:  
a. Apicy                                      b. Epiary  
c. Apiary                                      d. Epicy
19. Queens are the .....in the honey comb.  
a. Worker bee                                      b. Small bee  
c. Fertile Female                                      d. None of the above
20. Historically, mushrooms were classified among the so-called .....plants.  
a. Higher                                      b. Medium  
c. Lower                                      d. None of the above

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