

**MA RURAL DEVELOPMENT**  
**Third Semester**  
**RURAL TECHNOLOGY**  
**(MRD-14)**

**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 *five* of the following questions**

1. What is rural technology? Critically discuss the role of science and technology in rural development. 2+8=10
2. Write the nutritional value of mushroom. Discuss the historical background of mushroom cultivation in India. 4+6=10
3. Define Apiculture. Write the scope of apiculture in India. Discuss about its origin in India. 2+4+4=10
4. What is vermiculture? Explain the factors affecting the production of vermiculture. 2+8=10
5. Explain the concept of rural business hub. Discuss the role of CAPART rural development. 5+5=10
6. "Fossil fuels are depleting very fast and there is little success in population stabilisation". Comment and discuss the alternative energy sources. 10
7. Briefly explain the economic values of fish. Discuss the process of fish preservation and processing. 3+7=10
8. What is solar energy? Explain the collection and storage of solar energy. 2+8=10

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**Duration: 20 minutes**

**Marks – 20**

**(PART A - Objective Type)**

**I. Choose the correct answer:**

**1×20=20**

1. National Innovation Foundation was set up in December 2000 under the department of-
  - a. Science and technology
  - b. IGNITE
  - c. Both a and b
  - d. None of these
2. The study of honeybees is known as-
  - a. Apiology
  - b. Apilogy
  - c. Apiary
  - d. None of these
3. In India, the development of bee keeping was hastened by-
  - a. Khadi and Village Commission
  - b. Khadi and Village Industries Commission
  - c. Both a and b
  - d. None of these
4. Who is known as the father of modern Apiculture?
  - a. Petro Prokopovych
  - b. Jan Dzierzon
  - c. Morres Quinby
  - d. None of these
5. Pisciculture is a branch of-
  - a. Aquaculture
  - b. Animal husbandary
  - c. Both a and b
  - d. None of these

6. Chara is an example of –
- a. Filamentous weeds
  - b. Planktonic weeds
  - c. Hydrophytes
  - d. None of these
7. The process of autolysis is known as-
- a. Enzymatic action
  - b. Microbial action
  - c. Bacterial action
  - d. None of these
8. The major states known for coal reserves are-
- a. Bihar, Orissa, West Bengal and Maharashtra
  - b. Karnataka, Assam and U.P
  - c. Gujarat, U.P. and Kerala
  - d. None of these
9. The first solar water heater was installed in 1982 at-
- a. Punjab
  - b. Haryana
  - c. Kerala
  - d. None of these
10. Who constructed the first major tidal electric plant?
- a. France
  - b. Britain
  - c. China
  - d. None of these
11. Which country is the largest exporter of preserved mushrooms with a market share of 41.82%?
- a. China
  - b. France
  - c. Japan
  - d. None of these
12. *Agaricus biporus* is locally known as-
- a. Champignon
  - b. Italian mushroom
  - c. Button mushroom
  - d. All the above.
13. Which organization of rural technology was launched in Seventh Five Year Plan? –
- a. NIF
  - b. CAPART
  - c. Honeybee
  - d. MYRADA

14. *Eichhornia crassipes* is commonly known as-
- a. Aligator weed
  - b. Water hyacinth
  - c. Hydrilla
  - d. All the above
15. Who is known as the pioneer of mushroom cultivation in India?
- a. Mr. Seth
  - b. S.S. Jain
  - c. P.S. Jain
  - d. None of these
16. Which one from the following is required in the process of vermi culture?
- a. Amoeba
  - b. Bacteria
  - c. Fungi
  - d. Virus
17. In India, the production of mushroom has been estimated as-
- a. 48000 tonnes per annum.
  - b. 48500 tonnes per annum.
  - c. 5800 tonnes per annum
  - d. None of these
18. The per capita consumption of mushroom in India is currently about
- a. 25 g per year
  - b. 35 g per year
  - c. 26 g per year
  - d. None of these
19. Mushrooms are rich in-
- a. Folic acid
  - b. Vitamin B-12
  - c. Both a and b
  - d. None of these
20. The duration for spawning of mushroom is approximately-
- a. 14 to 21 days
  - b. 22 to 30 days
  - c. 16 to 20 days
  - d. None of these

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