

**MA RURAL DEVELOPMENT  
THIRD SEMESTER  
RURAL TECHNOLOGY  
MRD-304**

**Duration: 3 Hrs.**

**Marks: 70**

PART : A (OBJECTIVE) = 20  
PART : B (DESCRIPTIVE) = 50

[ PART-B : Descriptive ]

**Duration: 2 Hrs. 40 Mins.**

**Marks: 50**

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

1. What are the significances of Science and Technology for Rural Development? What are the aim and objectives of Science and Technology for Rural Development? (5+5=10)
2. What is Rural Technology? Explain the role of Rural Technology for Poverty eradication. (2+8=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 energy? What is Renewable and Non-renewable energy? Define Solar Energy. (2+4+4=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? What are the types of Bees in a honeycomb? What is the importance of honey? (2+4+4=10)

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**[ PART-A : Objective ]**

**Choose the correct answer from the following :**

**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 organization 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 D.
  - d. Both A and D.
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 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.
- Nitrogen
  - Phosphorous
  - Carbon
  - Sodium
16. In mushroom, the .....content is very low.
- Carbohydrates
  - Fat
  - Protein
  - None of the above
17. Wild mushroom contains mush higher amount of:
- Vitamin D<sub>3</sub>
  - Vitamin D<sub>2</sub>
  - Vitamin D
  - Vitamin E
18. The place where the honey bees are reared is called a:
- Apicy
  - Epiary
  - Apiary
  - Epic
19. Drones are the .....in the honey comb.
- Worker bee
  - Small bee
  - Fertile male
  - None of the above
20. Mushrooms also contain vitamin..... in small amounts.
- C
  - A
  - B
  - D

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# UNIVERSITY OF SCIENCE & TECHNOLOGY, MEGHALAYA



**[PART (A) : OBJECTIVE]**

Duration : 20 Minutes

Serial no. of the  
main Answer sheet

Course : .....

Semester : ..... Roll No : .....

Enrollment No : ..... Course code : .....

Course Title : .....

Session : ..... 2017-18 ..... Date : .....

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### Instructions / Guidelines

- The paper contains twenty (20) / ten (10) questions.
- Students shall tick (✓) the correct answer.
- No marks shall be given for overwrite / erasing.
- Students have to submit the Objective Part (Part-A) to the invigilator just after completion of the allotted time from the starting of examination.

Full Marks	Marks Obtained
20	

Scrutinizer's Signature

Examiner's Signature

Invigilator's Signature