

**BA / B.Sc. RURAL DEVELOPMENT  
THIRD SEMESTER  
RURAL TECHNOLOGY  
BRD – 931 [IDMj]**

**SET  
A**

**[USE OMR SHEET FOR OBJECTIVE PART]**

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

**(Objective)**

Marks: 20

*Choose the correct answer from the following:*

*1 × 20 = 20*

1. Science and technology play a crucial role in rural development because:  
a. It enhances agricultural productivity      b. It improves healthcare access  
c. It helps in fostering education            d. All of the above
2. Technological innovations that have shown remarkable promise in reducing poverty:  
a. Geospatial technology                        b. Artificial intelligence  
c. Machine learning                                d. All of them
3. Bio gas contains.....% methane and.....% Carbon dioxide.  
a. 55 and 30-40                                    b. 45 and 30-34  
c. 55 and 25-30                                    d. None of the above
4. Sufficient space of.....sq meter is needed for producing one cubic meter of gas.  
a. 5-10    b. 10-12  
c. 8-10    d. None of the above
5. CAPART is an autonomous body established in the year.....  
a. 1986    b. 1955  
c. 1982    d. 1971
6. The objective of Grameen Vikash Andolan is to conduct:  
a. Encouraging organic farming                b. Sensitization of polio eradication  
c. Awareness generation, Advocacy and      d. All the above  
sensitization of cleanliness
7. CAPART is an autonomous body established in the Ministry of:  
a. Agriculture                                        b. Rural Development  
c. Industry & Commerce                        d. None of the above
8. Wind energy is a clean.....forms of energy.  
a. Renewable                                        b. Non-renewable  
c. Biotic    d. Abiotic

9. The Ministry of.....has been implementing a central sector scheme of Rural Business Hub.
- |                        |                      |
|------------------------|----------------------|
| a. Agriculture         | b. Rural Development |
| c. Industry & Commerce | d. None of the above |
10. Neem is an.....
- |                   |                      |
|-------------------|----------------------|
| a. Aromatic plant | b. Medicinal plant   |
| c. Fungi          | d. None of the above |
11. The major system of indigenous medicine include.....
- |                |                      |
|----------------|----------------------|
| a. Allopathic  | b. Unani             |
| c. Homeopathic | d. None of the above |
12. Nearly 8000 herbal remedies have been codified by.....system in India.
- |          |                             |
|----------|-----------------------------|
| a. AYUSH | b. WHO                      |
| c. AIIMS | d. Medical Council of India |
13. Spawn is the.....of mushroom.
- |              |           |
|--------------|-----------|
| a. Flower    | b. Fruit  |
| c. Mycellium | d. Pollen |
14. Vermicompost is a/an.....
- |                         |                          |
|-------------------------|--------------------------|
| a. Toxic material       | b. Organic biofertilizer |
| c. Inorganic fertilizer | d. Synthetic fertilizer  |
15. Apis dorsata refers to.....
- |               |                 |
|---------------|-----------------|
| a. Rock bee   | b. Little bee   |
| c. Indian bee | d. European bee |
16. Wild mushroom contain high amount of Vitamin:
- |      |       |
|------|-------|
| a. A | b. C  |
| c. E | d. D2 |
17. Cage system of fish farming is an example of.....type of farming system.
- |                |                |
|----------------|----------------|
| a. Intensive   | b. Extensive   |
| c. Monoculture | d. Polyculture |
18. If more than single species of fish is cultured at a time, then it is called
- |                 |                 |
|-----------------|-----------------|
| a. Poly culture | b. Mori culture |
| c. Mono culture | d. Aqua culture |
19. Azolla is an example of which type of aquatic weeds?
- |                   |                  |
|-------------------|------------------|
| a. Floating weed  | b. Emergent weed |
| c. Submerged weed | d. Marginal weed |

20. In which methods animals are used to control aquatic weeds
- a. Manual
  - b. Biological
  - c. Mechanical
  - d. Chemical

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**( Descriptive )**

Time : 2 Hr. 30 Mins.

Marks : 50

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

- |  |            |
|--|------------|
| 1. a) What do you mean by Rural Technology?  | 1+4+5      |
| b) Write the importance of Science and Technology for Rural Development?   |            |
| c) What are the objectives of Science and Technology for Rural Development?  |            |
| 2. a) What is the difference between CAPART and Rural Business Hub?  | 2+4+4=10   |
| b) What are the mission objectives of CAPART and Rural Business Hub?   |            |
| c) Discuss the key areas of impact of CAPART and Rural Business Hub.   |            |
| 3. a) Define Vermiculture and Vermicompost. Write down its process   | 2+4+4=10   |
| b) Explain the steps involve in mushroom cultivation   |            |
| 4. a) What do you mean by apiculture? Write down the classification.   | 1+4+5=10   |
| b) Explain the Scope of Honeybee farming in India.   |            |
| 5. a) Define renewable energy.   | 2+6+2=10   |
| b) Explain different types of renewable energy.  |            |
| c) What are the benefits of renewable energy?  |            |
| 6. a) What is Bio-gas?   | 1+3+6=10   |
| b) What are the materials used in Bio-gas production?  |            |
| c) What are the advantages and dis-advantages of Bio-Gas production?   |            |
| 7. a) What is Pisciculture? Write the details about types of Pisciculture.   | 1+4+1+4=10 |
| b) What is an Aquatic weed? Explain the types of Aquatic weeds.  |            |
| 8. a) Explain the importance of Medicinal and Aromatic plants for treatment of common ailments in human being along with some illustrations. | 4+3+3=10   |
| b) What are the prospects of Medicinal and Aromatic plants in Indian economy?  |            |
| c) Describe the challenges in implementation of Medicinal and Aromatic plants in India.  |            |

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