

Total No. of printed pages = 3

63/2 (SEM-3) BIT 306

2022

(Held in 2023)

BIOTECHNOLOGY

(Theory Paper)

Paper Code : BIT-306

**(Mushroom Cultivation Technology,
Vermicompost and Value Added Products)**

Full Marks – 50

Pass Marks – 20

Time – Two hours

The figures in the margin indicate full marks
for the questions.

1. Answer the following questions questions :

1×5=5

(a) pH of vermiculture is kept at

(i) Near neutral

(ii) Alkaline

(iii) Acidic

(iv) Highly alkaline

(Choose the correct option)

[Turn over

- (b) *Trichoderma viride* is a black mould of mushroom. (Write Yes/No)
- (c) Wet spot disease is caused by *Mycogone pernicioso*. (Write True/False)
- (d) Oyster mushroom contains a bioactive component called Lovastatin. (Write Yes/No)
- (e) Wet spot disease is caused by *Mycogone pernicioso*. (Write True/False).

2. Answer the following questions : $2 \times 5 = 10$

- (a) What are the utility of medicinal mushrooms ?
- (b) Distinguish between dry bubble and wet bubble disease.
- (c) What are the environmental parameters essential for the growth of basic mushrooms ?
- (d) Why N-E Region of India is regarded as paradise for mushrooming ?
- (e) What is value addition ? Why value addition are done in food products ?

3. Answer any *five* of the following questions :

- (a) Write a short note on Biology of *Eisenia foetida*. $5 \times 5 = 25$
- (b) Discuss the preparation of master spawn.

(c) Describe Medicinal Mushrooms.

(d) Justify why mushrooms are regarded as superfood.

(e) Elaborate the hurdles in establishing the problems faced by entrepreneurs to establish their startups.

(f) Describe the cultivation of paddystarw mushroom.

(g) Explain the cultivation of milky mushroom.

(h) Write a short note on Biomagnification.

4. Answer any *one* of the following questions :

$10 \times 1 = 10$

(a) Describe the short and long method of Compost preparation of button mushroom. $5 + 5 = 10$

(b) 'Mushroom as an ideal tool for development of agro business in North-East perspective'. Discuss. 10