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School of Biological and Life sciences

Bachelor of Science Honours in Microbiology

Semester End Examination - Nov 2023

Duration : 180 Minutes

Max Marks : 100

Sem V - C2UC504T - Food and Agricultural MicrobiologyGeneral Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Which type of earthworm can be used for vermicomposting. K1 (2)
- 2) Define Tissue culture. K2 (4)
- 3) What is cryopreservation? Name some cryoprotectants. K2 (6)
- 4) Elaborate the various types of plant tissue culture. K3 (9)
- 5) Give some examples of Transgenic crops. K3 (9)
- 6) Inspect any three of the following: K5 (10)
 - A) Sterilization (including surface sterilization) in plant tissue culture.
 - B) Factors affecting organic matter decomposition
 - C) Totipotency, differentiation and re-differentiation
 - D) Commercial application of plant tissue culture.
- 7) Differentiate between sterilization and disinfection. Name some instruments used for sterilization and some common disinfectants used in food industry. K4 (12)
- 8) Summarize the use of Physical and Chemical methods of food preservation K5 (15)
- 9) Write note on following: K5 (15)
 - A) Carotenoids
 - B) Various types of mushroom
 - C) Lycopene
- 10) Conclude the beneficial effects of nutraceuticals and write note on FSSAI regulation in India. K6 (18)