PAPER CODE:5104

M.Sc. Sem.-III Examination
JULY-SEP- 2021
Botany : EBO - 501 (Old Course)
(Biofertilizer Technology)

કુલ સમય :– ૬૦ મીનીટ કુલ પ્રશ્નો : ૫૦ વિદ્યાર્થીએ ટીક કરવાના પ્રશ્નો : ૩૫

નોંધ : વિદ્યાર્થીએ માત્ર ૩૫ પ્રશ્નો જ ટીક કરવાના રહેશે. જો વધારે ટીક કરેલ હશે તો પ્રથમ ૩૫ પ્રશ્નો જ ગણતરીમાં લેવામાં આવશે.

(1) Mushroom's nutrition is ……
(a) Parasitic (b) Symbiont (c) Autotrophs (d) Saprophytic

(2) Which of the following is not true as a role of biofertilizer in agriculture ?
(a) Increase in the crop yields (b) Weakens the soil structure
(c) Reduces the expenses as compared to chemical fertilizers
(d) Maintains stomatal functioning and transpiration

(3) What is the full name of IPM?
(a) *Integrated Pest Management* (b) *Integrated Pest Manufacture*
(c) *Integrated Plant Management* (d) *Integrated Plant Manufacture*

(4) Nitrogen fixing Biofertilizers are ……
(a) *Rhizobium* (b) *Azotobactor* (c) *Azospirillium* (d) All of these

(5) In paddy fields, …… serve as an important bio-fertilizer.
(a) *Azospirillum* (b) *Anabaena* (c) *Azotobacteria* (d) *Rhizobium*

(6) Green manuring increases the crop yield by:
(a) 5-10% (b) 30-50% (c) 80-90% (d) 15-25%

(7) Spraying of DDT increase pollution in:
(a) Only Air (b) Air and Soil only (c)Air and Water only (d) Air, Water and Soil

(8) Which is used as a biofertilizer for soybean crop?
(a) *Azospirillum* (b) *Azotobacter* (c) *Rhizobium* (d) *Nostoc*

(9) Insecticides generally attack:
(a) *Respiratory system* (b) *Muscular system*
(c) *Circulatory system* (d) *Nervous system*

(10) Rhizobium is a ……type of bacteria.
(a) gram-positive (b) gram-negative (c) bacillus (d) None

(11) Which bacteria cannot fix atmospheric nitrogen?
(a) *Nostoc* (b) *Anabaena* (c) *Lactobacillus* (d) *Rhizobium*

(12) *Rhizobium* bacteria enters into the plant through ……
(a) Root hairs (b) Stem (c) Flower (d) Leaf

(13) Which of the following is an endomycorrhiza?
(a) *Rhizobium* (b) *Glomus* (c) *Nostoc* (d) *Agaricus*

(14) *Azolla* is used as biofertilizer, because it has:
(a) *Rhizobium* (b) Cyanobacteria
(c) Mycorrhiza (d) large quantity of humus

(15) Green manure plants used by farmers mainly belong to:
(a) Compositae (b) Solanaceae (c) Leguminosae (d) Poaceae

(16) Biofertilizer having:
(a) Urea (b) Potassium (c) Micro-organisms (d) None of these

(17) Cyanobacteria are commonly known as …….
(a) Green algae (b) Brown algae (c) Red algae (d) Blue-Green algae

(18) Symbiotic biofertilizers are ……
(a) *Nitrosomonas* (b) *Rhizobia* (c) *Azotobacter* (d) *Azospirilium*

(19) Which of the following nitrogen fixers are found in rice fields associated with *Azolla?*
(a) *Tolypothrix* (b) *Frankia* (c) *Anabaena* (d) *Spirulina*

(20) Symbiotic nitrogen-fixing cyanobacteria are absent in ……
(a) *Azolla* (b) *Gnetum* (c) *Anthoceros* (d) *Cycas*

(21) Which of the following is not a biofertilizer?
(a) Mycorrhiza (b) *Rhizobium* (c) *Agrobacterium* (d) *Noctoc*

(22) Enzymes are
(a) vitamins that act as biocatalysts (b) proteins that act as biocatalysts
(c) minerals that act as biocatalysts (d) carbohydrates that act as biocatalysts

(23) Which is not used in organic farming?
(a) Snail (b) Earthworm (c) *Oscillatoria* (d) *Glomus*

(24) Mycorrhizae is associated with the following:
(a) Found mostly in roots of seed plants (b) Hyphae penetrating only in soil
(c) Found mostly in lower plants (d) Soil erosion

(25) Bio-herbicides have been recommended for:
(a) prevent eco-degradation (b) their ready availability
(c) their cheap rates (d) their abundance

(26) ……. is not a plant growth regulator.
(a) Abscisic acid (b) Gibberellins (c) Cytokinins (d) Acetic acid

(27) The most quickly available source of nitrogen to plants are:
(a) Ammonia nitrate fertilizers (b) Amide fertilizers
(c) Ammonia fertilizers (d) Nitrate fertilizers

(28) Enzymes involved in nitrogen fixation are ……
(a) Nitrogenase and hydrogenase (b) Nitrogenase and hexokinase
(c) Nitrogenase and peptidase (d) Nitrogenase and hydrolyase

(29) Which of the following are biofertilizers?
(a) *Salmonella and E.coli* (b) *Rhizobium and grasses*
(c) *Nostoc and legume* (d) *Azolla and BGA*

(30) Organisms associated with sorghum and cotton, which provide nutrition to them are:
(a) *Azospirillium, Azotobacter* (b) *Azotobacter, Anabaena*
(c) *Nostoc, Rhizobium* (d) *Rhizobium, Azotobacter*

(31) Which fern is used as biofertilizer?
(a) *Salvinia* (b) *Azolla* (c) *Pteridium* (d) *Nephrolepis*

(32) Which is green manure/ biofertilizer?
(a) Wheat (b) *Sesbania* (c) Oat (d) Maize

(33) The culture obtained in the conical flask is called as …….
(a) Starter culture (b) Medium culture (c) Flask culture (d) None of the above

(34) Most effective pesticide is:
(a) Organophosphates (b) Organochlorides (c) Carbamates (d) All of these

(35) The function of biofertilizers are ……..
(a) to increase chemical process (b) to increase physiological process
(c) to increase biological process (d) to increase photosynthesis process