

Topic :- Microbes In Human Welfare

- Which of the following microbe convert milk into curd?
a) Bacteria b) Virus c) Fungi d) Protozoa
- Consider the following statements about organic farming
I. Organic farming promotes the use of crop rotations and cover crops and encourages balanced host/predator relationships
II. Integrated pest and weed management and soil conservation systems are valuable tools on an organic farm
III. Organic farming protects the environment, minimize soil degradation and erosion and decrease pollution
Which of the statements given above are correct?
a) I, II and III b) I and II c) I and III d) II and III
- Saccharomyces cerevisiae* is used for commercial production of
a) Butanol b) Ethanol c) Methanol d) Acetic acid
- In the sewage treatment bacterial flocs are allowed to sediment in a settling-tank. This sediment is called as
a) Activated sludge b) Primary sludge c) Anaerobic sludge d) Secondary sludge
- Genetic diversity in agricultural crops is threatened by
a) Introduction of high yielding varieties b) Intensive use of fertilizers
c) Extensive intercropping d) Intensive use of biopesticides
- Which one of the following is used as biological insecticide?
a) Tiger beetle b) Caterpillar c) Silkworm d) *Mazra poka*
- During the primary treatment of sewage, solid particles that settle down are called
a) Activated sludge b) Secondary sludge c) Primary sludge d) Anaerobic sludge
- Recently discovered anti-cancer drug is obtained from
a) *Taxus* b) *Tagetes* c) *Tamarix* d) *Thea*
- Triticum aestivum*, the common bread wheat is

- a) Triploid with 21 chromosomes b) Hexaploid with 42 chromosomes
c) Tetraploid with 30 chromosomes d) Diploid with 14 chromosomes
10. In plant A, $2n = 12$ and in plant B, $2n = 16$. Then the ploidy number of cross breeding plant is
a) 7 b) 21 c) 14 d) 28
11. BOD of waste water is estimated by measuring the amount of
a) Total organic matter b) Biodegradable organic matter
c) Oxygen evolution d) Oxygen consumption
12. Secondary sewage treatment is mainly a
a) Chemical process b) Physical process
c) Mechanical process d) Biological process
13. Producer gas differs from biogas in having
a) Methane b) Carbon monoxide
c) Carbon dioxide d) Formed by fermentation
14. *Bacillus thuringiensis* is used as
a) Biofungicide b) Biopesticide c) Biocontroller d) Bioweapon
15. The high yielding hybrid crop varieties to exploit hybrid vigour, the farmers to purchase fresh hybrid seed every year because
a) Hybrid vigour is not long standing due to inbreeding depression
b) They are not allowed to grow their own seed
c) It is always associated with increased heterozygosity
d) Government has accepted Dunkel's proposals
16. The residue left after methane production from cattle dung is
a) Burnt b) Buried in land fills
c) Used as manure d) Used in civil construction
17. Morphine obtained from opium is
a) Latex b) Pome c) Alkaloid d) Tannin
18. Ethanol is commercially produced through a particular species of
a) *Clostridium* b) *Trichoderma* c) *Aspergillus* d) *Saccharomyces*
19. *Bacillus thuringiensis* is used to control
a) Bacterial pathogens b) Viral pathogens c) Protozoans d) Insect pests
20. Which of the following statements regarding baculoviruses as bio-control agents is/are correct?
I. Baculoviruses are pathogens that attack insects and other arthropods

II. Most of these biocontrol agents belong to the genus *Nucleopolyhedro* virus

III. They do not harm plants mammals, birds, fish and other non-target insects

IV. Baculoviruses are helpful in Integrated Pest Management (IPM) programme, in which beneficial insects are conserved

Choose the correct option

a) I, II and III

b) I, II and IV

c) II, III and IV

d) All of these

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