

Q.1 Choose the correct option.

- 1) The best quality silk obtained from *Bombyx mori* is
 - (a) Tussar silk
 - (b) Eri silk
 - (c) Mulberry silk
 - (d) pure silk
- 2) Most used substrate for industrial production of beer is
 - (a) barley
 - (b) wheat
 - (c) corn
 - (d) sugarcane molasses
- 3) Sericulture is a branch of science which deals with
 - (a) rearing of fishes
 - (b) rearing of snakes
 - (c) rearing of honeybees
 - (d) rearing of silkworms
- 4) Antibiotic Chloromycetin is obtained from
 - (a) *Streptomyces erythraeus*
 - (b) *Penicillium chrysogenum*
 - (c) *Streptomyces venezuelae*
 - (d) *Streptomyces griseus*
- 5) Removal of large pieces of floating debris, oily substances, etc. during sewage treatment is called
 - (a) primary treatment
 - (b) secondary treatment
 - (c) final treatment
 - (d) amplification
- 6) Which one of the following is free living bacterial biofertilizer?
 - (a) *Azotobacter*
 - (b) *Rhizobium*
 - (c) *Nostoc*
 - (d) *Bacillus thuringiensis*
- 7) Most commonly used substrate for industrial production of beer is
 - (a) barley
 - (b) wheat
 - (c) corn
 - (d) sugarcane molasses
- 8) Which is an inherent ability of living plant cell, to grow, divide and give rise to a whole plant?
 - (a) Morphogenesis
 - (b) Totipotency
 - (c) Cell culture
 - (d) Inoculation
- 9) Which one of the following is not considered as chemical mutagens?
 - (a) mustard gas
 - (b) Nitrous acid
 - (c) Colchicine
 - (d) X-rays
- 10) One of the free-living anaerobic nitrogen-fixers is
 - (a) *Azotobacter*
 - (b) *Beijerinckia*

(c) Rhodospirillum (d) Rhizobium

11) ____ can be achieved through conventional selective breeding practices.

- (a) Inoculation (b) Hybridization
- (c) Biofortification (d) Insemination

12) Plant breeding is a method of

- (a) altering the genetic pattern of plants
- (b) altering physical appearance
- (c) altering phenotypes
- (d) interspecific cross

13) The plant breeding is done to increase

- (a) crop yield, improve quality,
- (b) increase tolerance to environmental stresses
- (c) make the plants resistant to pathogens and increase tolerance to insect pest
- (d) All the above

14) GANGA-3 is a hybrid variety of

- (a) Jowar (b) Bajra
- (c) Maize (d) Wheat

15) 'Red rot' of sugarcane is caused by

- (a) Bacteria (b) Fungi
- (c) Viruses (d) Algae

16) Hisardale is the outcome of.....

- (a) inbreeding
- (b) cross breeding
- (c) interspecific hybridization
- (d) outbreeding

17) 'Apiculture' is a scientific method of _____

- (a) rearing poultry
- (b) rearing silkworm
- (c) rearing honeybees
- (d) rearing fishes

18) 'Hisardale' is a breed of

- (a) Sheep (b) Goat (c) Buffalo (d) Cow

19) Inland fishery includes fishes from

- (a) freshwater bodies
- (b) saline water bodies
- (c) pure water
- (d) filtered water

20) The main effect of polyamines in the tissue culture system is

- (a) Promotion of shoot formation
- (b) Adventitious root formation
- (c) Promotion of tuber and bulb formation
- (d) Somatic embryogenesis

- 21)** What is the term for the ability of single cells to divide and produce all the differentiated cell in the organism?
 (a) Unipotent (b) Pluripotent
 (c) Multipotent (d) Totipotency
- 22)** Which one is NOT the basic component of culture media used for plant cultivation?
 (a) Amino acids Complex mixture of salts
 (b) Complex mixture of salts
 (c) Serum albumin
 (d) Sugar/ sucrose
- 23)** Which is NOT a plant growth regulator?
 (a) Auxin (b) Cytokinin
 (c) Polyphenols (d) Absciscic acid
- 24)** Chemical Mutagens are _____
 (a) Nitrous acid (b) Mustard gas
 (c) Colchicine (d) All above
- 25)** Heterocyst are _____
 (a) Carbon fixation cells
 (b) Oxygen fixation cells
 (c) Hydrogen fixation cells
 (d) Nitrogen fixation cells
- 26)** The method which involves breeding of animals of two different but related species.
 (a) Artificial insemination
 (b) Inoculation
 (c) Interspecific hybridization
 (d) Crossbreeding
- 27)** Nitrogen fixing microorganism are called _____
 (a) Diazotrophs (b) Disotrophs
 (c) Azeotrophs (d) Azotrophs
- 28)** Nosemalacustaea protozoais NOT used as biocontrol agent of
 (a) Grasshopper (b) Caterpillar
 (c) Crickets (d) Locust
- 29)** Protein present in milk is
 (a) Keratin (b) Ferritin
 (c) Elastin (d) Casein
- 30)** Fermentation of Dosa and Dhokla is from
 (a) Leuconostoc bacteria
 (b) Streptococcus bacteria
 (c) both a & b
 (d) none of the above
- 31)** Which is NOT correctly matched from the following combinations of microbes and organic acid?
 (a) Citric acid - Aspergillus niger

- (b) Gluconic acid- *Saccharomyces cerevisiae*
 (c) Acetic acid - *Acetobacter aceti*
 (d) Fumaric acid –*Rhizopus arrhizus*
- 32)** Microorganisms also help in production of food like
 (a) bread (b) alcoholic beverages
 (c) vegetables (d) pulses
- 33)** MOET technique is used for
 (a) production of hybrids (b) inbreeding
 (c) outbreeding (d) outcrossing
- 34)** Mule is the outcome of
 (a) inbreeding
 (b) artificial insemination
 (c) interspecific hybridization
 (d) outbreeding
- 35)** One of the free-living anaerobic nitrogen-fixer is
 (a) *Azotobacter* (b) *Beijerinckia*
 (c) *Rhodospirillum* (d) *Rhizobium*
- 36)** Ethanol is commercially produced through a particular species of
 (a) *Aspergillus* (b) *Saccharomyces*
 (c) *Clostridium* (d) *Trichoderma*
- 37)** Breeding crops for improving nutritional quality of the plant is known as
 (a) Biofortification
 (b) Bioremediation
 (c) Biomagnification
 (d) Biomining
- 38)** The main effect of cytokines in the tissue culture system is
 (a) Adventitious shoot formation
 (b) Induction of somatic embryos
 (c) Adventitious root formation
 (d) Shoot elongation
- 39)** Famous wine of Goa, 'Fenny' is made by fermenting
 (a) Almonds (b) Pistachio
 (c) Raisins (d) Cashew
- 40)** *Bacillus thuringiensis* is used as biocontrol agent against
 (a) Cockroach (b) Birds
 (c) Butterfly (d) Locust
- 41)** Enzyme Lipase is obtained from
 (a) *Candida lipolytica*
 (b) *Candida konigii*
 (c) *Trichoderma konigii*
 (d) *Aspergillus niger*

----- All the Best -----

11. Enhancement of Food Production Keys

- 1) Ans. (c)**
- 2) Ans. (a)**
- 3) Ans. (d)**
- 4) Ans. (c)**
- 5) Ans. (a)**
- 6) Ans. (d)**
- 7) Ans. (d)**
- 8) Ans. (b)**
- 9) Ans. (d)**
- 10) Ans. (b)**
- 11) Ans. (c)**
- 12) Ans. (a)**
- 13) Ans. (d)**
- 14) Ans. (b)**
- 15) Ans. (b)**
- 16) Ans. (b)**
- 17) Ans. (c)**
- 18) Ans. (a)**
- 19) Ans. (a)**
- 20) Ans. (c)**
- 21) Ans. (d)**
- 22) Ans. (c)**
- 23) Ans. (c)**
- 24) Ans. (d)**
- 25) Ans. (d)**
- 26) Ans. (c)**

27) Ans. (a)

28) Ans. (d)

29) Ans. (d)

30) Ans. (c)

31) Ans. (b)

32) Ans. (d)

33) Ans. (a)

34) Ans. (c)

35) Ans. (b)

36) Ans. (b)

37) Ans. (a)

38) Ans. (a)

39) Ans. (d)

40) Ans. (c)

41) Ans. (a)