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STD: XII

BIOLOGY

MARKS-50

I. CHOOSE THE CORRECT ANSWER :**30X1=30**

1. The scar left by funiculus in the seed is
 - a) Tegmen b) radicle c) epicotyl d) hilum
2. In majority of plants pollen is liberated at
 - a) 1 celled stage b) 2 celled stage c) 3 celled stage d) 4 celled stage
3. Progeny obtained as a result of repeat self pollination a cross pollinated crop to called
 - a) pure line b) pedigree line c) inbreed line d) heterosis
4. "Gametes are never hybrid". This is a statement of
 - a) Law of dominance b) Law of independent assortment
 - c) Law of segregation d) Law of random fertilization
5. Changing the codon AGC to AGA represents
 - a) missense mutation b) nonsense mutation
 - c) frameshift mutation d) deletion mutation
6. The time duration for sterilization process by using autoclave is _____ minutes and the temperature is _____
 - a) 10 to 30 minutes and 125° C b) 15 to 30 minutes and 121° C
 - c) 15 to 20 minutes and 125° C d) 10 to 20 minutes and 121° C
7. Solidifying agent used in plant tissue culture is
 - a) Nicotinic acid b) Cobaltous chloride c) EDTA d) Agar
8. Which of the given plant produces cardiac glycosides?
 - a) *Calotropis* b) *Acacia* c) *Nepenthes* d) *Utricularia*
9. *Ophrys* an orchid resembling the female of an insect so as to able to get pollinated is due to phenomenon of
 - a) Myrmecophily b) Ecological equivalents c) Mimicry d) None of these
10. Which of the following ecosystem has the highest primary productivity?
 - a) Pond ecosystem b) Lake ecosystem c) Grassland ecosystem d) Forest ecosystem
11. Desired improved variety of economically useful crops are raised by _____
 - (a) natural selection (b) hybridization (c) mutation (d) biofertilisers
12. Deforestation does not lead to
 - a) Quick nutrient cycling b) soil erosion
 - c) alternation of local weather conditions d) Destruction of natural habitat weather conditions
13. Find the wrongly matched pair.
 - (a) Endemism – Species confined to a region and not found anywhere else.
 - (b) Hotspots – Western ghats
 - (c) Ex-situ Conservation – Zoological parks

- (d) Sacred groves – Saintri hills of Rajasthan
 (e) Alien sp Of India – Water hyacinth
14. The plants which are grown in silivpasture system are _____
 (a) Sesbania and Acacia (b) Solenum and Crotalaria
 (c) Clitoria and Begonia (d) Teak and sandal
15. Statement I: The drug sources of Siddha include plants, animal parts, ores and minerals.
 Statement II: Minerals are used for preparing drugs with long shelf-life.
 a) Statement I is correct (b) Statement II is correct
 c) Both statements are correct (d) Both statements are wrong
16. The mode of reproduction in bacteria is by _____
 (a) Formation of gametes (b) Endospore formation
 (c) Conjugation (d) Zoospore formation
17. Mammalian egg is _____
 (a) Mesolecithal and non-cleidoic (b) Microlecithal and non-cleidoic
 (c) Alecithal and non-cleidoic (d) Alecithal and cleidoic
18. The Athlete's foot disease in human is caused by :
 (a) Protozoa (b) virus (c) Fungi (d) Bacteria
19. Three children of a family have blood groups A, AB and B. What could be the geno types of their parents?
 (a) $I^A I^B$ and ii (b) $I^A I^O$ and $I^B I^O$ (c) $I^B I^B$ and $I^A I^A$ (d) $I^A I^A$ and ii
20. Klinefelters' syndrome is characterized by a karyotype of _____
 (a) XYY (b) XO (c) XXX (d) XXY
21. A mRNA molecule is produced by
 (a) Replication (b) Transcription (c) Duplication (d) Translation
22. Which of the following is the correct sequence of event with reference to the central dogma?
 (a) Transcription, Translation, Replication
 (b) Transcription, Replication, Translation
 (c) Duplication, Translation, Transcription
 (d) Replication, Transcription, Translation
23. Which of the following was the contribution of Hugo de Vries?
 (a) Theory of mutation (b) Theory of natural Selection
 (c) Theory of inheritance of acquired characters (d) Germplasm theory
24. The age of fossils can be determined by _____
 (a) electron microscope (b) weighing the fossils
 (c) carbon dating (d) analysis of bones
25. Amphetamines are stimulants of the CNS, whereas barbiturates are _____
 (a) CNS stimulant (b) both a and b
 (c) hallucinogenic (d) CNS depressants
26. Which of the following pair is correctly matched for the product produced by them?
 (a) Acetobacter aceti – Antibiotics (b) Methanobacterium – Lactic acid
 (c) Penicilium notatum – Acetic acid (d) Saccharomyces cerevisiae – Ethanol
27. How many amino acids are arranged in the two chains of Insulin?
 (a) Chain A has 12 and Chain B has 13
 (b) Chain A has 21 and Chain B has 30 amino acids
 (c) Chain A has 20 and chain B has 30 amino acids

- (d) Chain A has 12 and chain B has 20 amino acids
28. The relationship between sucker fish and shark is _____
 (a) cellulose (b) pectinase (c) protease (d) lipase
29. Which one of the following are at high risk extinction due to habitat destruction?
 (a) Mammals (b) Birds (c) Amphibians (d) Echinoderms
30. As per 2017 statistics, the highest per capital emitter of Carbon dioxide in the world is _____
 (a) USA (b) China (c) Qatar (d) Saudi Arabia
31. Colostrum is rich in
 a. Ig E b. Ig A c. Ig D d. Ig M
32. Who is the founder of Modern Eugenics movement?
 a) Mendel b) Darwin c) Francis Galton d) Karl Pearson
33. Which of the following is an r-species
 a) Human b) Insects c) Rhinoceros d) Whale
34. Which of the following is not a sedimentary cycle
 a) Nitrogen cycle b) Phosphorous cycle c) Sulphur cycle d) Calcium cycle
35. A specific place in an ecosystem, where an organism lives and performs its functions is
 a) habitat b) niche c) landscape d) biome

II ANSWER ANY OF THE FOLLOWING :**3X5=15**

36. Compare the various types of blotting techniques.

OR

What are millets? What are its types? Give example for each type.

37. How will you prepare an organic pesticide for your home garden with the vegetables available from your kitchen?

OR

What is vaccine? What are its types?

38. Explain the structure of immunoglobulin with suitable diagram.

OR

Write a note on regeneration .
