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Subject: Biology

Q1. Potometer is used to measure

a) Osmosis 2. b) Deplasmolysis 3. c) Transpiration 4. d) Endosmosis

Q2. Which one of the following leaves would dry up last?

a) Lower surface greased. b) Both surfaces c) Both surfaces greased d) Upper surface greased

Q3. Pellagra is caused due to deficiency of:

a) B1 b) B3 c) B12 d) B2

Q4. Binary fission in some organisms occur in definite orientation in relation to the cell structures. One such organism is:

a) Leishmania b) Plasmodium c) Amoeba d) Bacteria

Q5. Collenchyma are characterised by the presence of

a) Elongated cells with deposits of cellulose and pectin all over the wall b) Isodiametric cells with deposits of cellulose and pectin at the corners

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c) Elongated cells with thickening at the corners d) Isodiametric cells with thickening all over the wall

Q6. Proteinaceous part of maize endosperm is

a) Apophysis b) Scutellum c) Aleurone layer d) Peripheral layer

Q7. Gibberellins are chemically

a) Phenolic derivatives b) Triterpenoid derivatives c) Adenine derivatives d) Alkaloid derivatives

Q8. The sequence of development of embryo sac is

a) archesporium->megaspore->megasporangium->embryosac b) archesporium->megasporangium->megaspore->embryosac c) megasporangium->megaspore->archesporium->embryosac d) archesporium->megaspore mother cell->megaspore->embryosac

Q9. Plant group with largest ovule, largest trees and largest gametes

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a) Pteridophyte b) Angiosperms c) Gymnosperms d) Bryophytes

Q10. Most primitive vascular plants are

a) Kelps b) Mosses c) Cycads d) Ferns

Q11. In raceme the flowers are

a) Arranged in basipetal succession b) Arranged in acropetal succession c) Of separate sexes d) Of the same sexes

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a) Spadix b) Spike c) Head d) None of these

Q13. One of the plant is of great medicinal value

a) Brassica oleraceae b) Rauwolfia serpentine c) Coffea robusta d) Crypostegia grandiflora

Q14. The flax fibres are obtained by

a) Cannabis sativa b) Crotolaria juncea c) Cocos nucifera d) Linum usitissimum

Q15. If there are 4 cells in anther what will be the no. Of pollen grains

a) 4 b) 8 c) 12 d) 16

Q16. The organism that contain RNA as a genetic material

a) E.coli b) TMV c) Virus d) Bacteriophage

Q17. Guttation is mainly due to

a) Root pressure b) Transpiration c) Imbibition d) Osmosis

Q18. Plant deficient in zinc have reduced

a) Auxin b) Ethylene c) Cytokinins d) ABA

Q12. In musaceae the inflorescence is

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a) Starch b) Cyanophacean granule c) Any polysaccharide d) Floridian starch

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Q20. A gymnospermic plant

a) bear flower b) exhibit no vascular tissue c) produce seeds in cones d) does not produce seeds in cone

Q21. Which of the following includes Coelomate unsegmented organisms?

a) Annelida b) Mollusca c) Chordata d) Arthropoda

Q22. Caterpillar which affects coconut is

a) Calandra Oryza b) Prodenia litura c) Nephantis serenopa d) Pectinophora gossypiella

Q23. Epithelial cells of the intestine involved in food absorption have on their surface

a) Pinocytotic vesicles b) Zymogen granules c) Phagocytotic vesicles d) Microvilli

Q24. Oxygen carrying blood pigment in certain annelids is

a) Haemoglobin b) Hemocyanin c) Chlocochlorin d) Hemocerythrin

Q25. The membranous covering of heart is

a) Meninges b) Pericardium c) Pleura d) Peritoneum

Q19. Which one is present in blue-green algae?

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a) Renette cells b) Flame cells c) Nephridia d) Malpighian tubules

Q27. During a propagate ions of nerve impulse, the action potential results from the movement of a) K^+ ions from intracellular fluid to extracellular fluid b) K^+ ions from extracellular fluid to intracellular fluid c) Na^+ ions from extracellular fluid to intracellular fluid d) Na^+ ions from intracellular fluid to extracellular fluid

Q28. Muscle get fatigue due to accumulation of

a) Lactic acid b) ATP c) Phosphate molecules d) Carbon dioxide

Q29. Implantation of blastocysts occur on a) 4th Day b) 5th day c) 6th day d) 7th day

Q30. Ligament is a/an is

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a) Inelastic white fibrous tissue b) Modified white fibrous tissue c) Modified yellow elastic fibrous tissue
d) None of the above

Q31. A heart murmur indicates a defective

a) SA node b) AV node c) Heart valve d) Pulmonary artery

Q32. Which one of these is example of conditioned reflex?

a) Sneezing b) Yawning c) Withdrawal of hand on touching a hot plate

Q26. In cockroach, excretion is performed by

d) Watering of mouth at the smell of food

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Q33. Which one of the following is correctly matched?

a) Vitamin E – Tocopherol b) Vitamin D – Riboflavin c) Vitamin B – Calciferol d) Vitamin A – Thiamine

Q34. Endometrium is a line of

a) Uterus b) Testis c) Ureter d) Urinary Bladder

Q35. How many sperms are formed from a secondary spermatocyte

a) 1 b) 2 c) 4 d) 8

Q36. Clinical fever in malaria is due to

a) Erythrocytic gametogony b) Erythrocytic schizogony c) Pre-erythrocytic schizogony d) Exo-erythrocytic schizogony

Q37. Kidney is an excretory organ. It also performs another function of releasing the hormones. What are these functions?

a) Rennin b) Calcitonin c) Erythropoietin d) All of these Q38. Low Ca^{++} in the body fluid may be

a) Tetany b) Gout c) Anaemia d) Angina pectoris

Q39. HCL of the gastric juice

a) Activates both pepsin and ptyalin b) Inactivates both pepsin and ptyalin

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c) Activates pepsin and inactivates ptyalin d) Activates ptyalin and inactivates pepsin

Q40. Human blood cell contains

a) 22 pairs of chromosomes b) 23 pairs of chromosomes c) 21 pairs of chromosomes d) 20 pairs of chromosomes

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