MHT-CET Practice Question Paper

Subject: Biology

Time: 25 minutes Test no: 06 Marks: 100

All the questions are compulsory and contain two marks for each

- 1. Which of the following produces testosterone?
 - a) Primordial germ vells
 - b) Leydig cells
 - c) Prostrate gland
 - d) Bulbourethral gland
- 2. Major part by volume of semen is contributed by _____.
 - a) Seminal vesicle
 - b) Epididymis
 - c) Cowper's gland
 - d) Prostate gland
- 3. The main function of mammalian corpus luteum is to produce
 - a) estrogen only
 - b) progesterone
 - c) human chorionic gonadotropin
 - d) relaxin only
- 4. The termination of process of oogenesis is indicated by formation of
 - a) secondary oocyte
 - b) first polar body
 - c) second polar body
 - d) perivitelline space
- 5. Choose the CORRECT group of labellings.



- a) I Trophoblast, II Archenteron, III Micromeres
- b) I Trophoblast, II Blastocoel, III Megameres
- c) I Trophoblast, II Archenteron, III Inner mass cells
- d) I Trophoblast, II Blastocoel, III Inner mass cells
- 6. hCG is secreted by
 - a) Alantois
- b) Corona radizta

- c) Corpus luteum
- d) Placenta
- 7. cambium is essential for grafting in plants because
 - a) cambia offboard stock and scion fuse together
 - b) cambium produces new leaves
 - c) cambium produces new roots
 - d) cambium helps in the production of flowers
- 8. Which of the following has proved helpful in preserving pollen as fossils?
 - a) Oil content
- b) Cellulosic intine
- c) Pollenkitt
- d) Sporopollenin
- 9. A typical embryo sac at maturity is
 - a) 7 nucleated, 8 celled
 - b) 8 nucleated, 7 celled
 - c) 8 nucleated, 8 celled
 - d) 7 nucleated, 7 celled
- 10. Progeny resulting from cross pollination are
 - a) genetically stable
 - b) always sterile
 - c) homozygous and less viable
 - d) genetically variable
- 11. Anemophily is NOT observed in
 - a) Maize
- b) Jowar
- c) Sugarcane
- d) Salvia
- 12. Which one of the following may require pollinators, but is genetically similar to autogamy?
 - a) Geitonogamy
- b) Xenogamy
- c) A pogamy
- d) Cleistogamy
- 13. How many different types of gametes will be formed by a pp plant with genotype TtYy?
 - a) 16
- b) 08
- c) 06
- d) 04

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| | In a person suffering from sickle cell anaemia, becomes half moon shaped. a) RBC b) Thrombocyte c) Monocyte d) Lymphocyte e mechanism that causes a gene to move | 23. | The water potential of pure water is a) Zero b) Less than Zero c) More than zero but less than one d) More than one | |
|-----|--|-----|---|--|
| 16. | from one linkage group to another is called a) Crossing over b) Inversion c) Duplication d) Translocation If a colour blind man marries a woman who is homozygous for normal colour vision, the probability of their son being colour blind is a) 1 b) 0 | 24. | Which of the following is NOT a feature of active transport of solutes in plants? a) Requires ATP b) Occurs against concentration gradient c) Non-selective d) Occurs through membranes | |
| 17. | c) 0.5 d) 0.75 The final proof for DNA as the genetic material came from the experiments of a) Griffith | 25. | Fruit and leaf drop at early stages can be prevented by the application of a) Cytokinins b) Ethylene c) Auxins d) Gibberellic acid | |
| 18. | b) Hershey and Chasec) Avery, Macleod and McCartyd) Har Gobind Khorana | | Which of the following growth regulators i known as 'stress hormone'? a) Abscisic acid b) Ethylene c) GA3 d) Indole acetic acid | |
| | During DNA replication, the addition of nucleotides on the lagging strand occurs a) towards the replicating fork | | | |
| | b) at a faster rate than leading strandc) continuouslyd) discontinuously | | a) Decrease the affinity of haemoglobin with oxygen b) Release bicarbonate ions by the liver. c) Reduce the rate of heart beat. d) Reduce the blood supply to the brain. | |
| | In Prokaryotes, the transcription of DNA is initiated with the help of a) Rho factor | | | |
| | b) Elongation factor c) Sigma factor d) Termination factor The process of removal of introns in a defined order in transcription unit is called a) tailing b) splicing | 28. | In case of severe allergy and cough. the physician advises the patient to gei the blood checked. What is expected in the | |
| | | | blood smear report? a) Leukemia b) Eosinophilia c) Polycythemia d) Leucopenia | |
| 21. | c) capping d) translation Dinosaurs were present during a) Palaeozoic era b) Mesozoic era c) Cenozoic era d) Proterozoic era | 29. | Which valve is present at the opening of coronary sinus? a) Mitral valve b) Eustachian valve c) Thebesian valve d) Tricuspid valve | |
| 22. | The reptiles like dinosaurs were dominant in period. a) Cretaceous b) Jurassic c) Tertiary d) Triassic | 30. | Bradycardia indicates slow heart rate generally below per minute. a) 70 beats b) 75 beats c) 80 beats d) 60 beats | |

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| 31. | Coughing and sneezing | g are controlled by | c) Primary treatment d) Sludge treatment | | | |
|-----|---|---------------------------------------|---|---|--|--|
| | a) Cerebrum b) Cerebellum c) Medulla oblongata d) Pons Varolii . Photosensitive compound in human eye is | | 40. | c'Cry' gene is obtained from a) Agrobacterium tumefaciens b) Bacillus thuringiensis c) Rhizobium leguminosarum d) Rhizobium phaseoli | | |
| | made up of a) opsin and retinol b) transducin and retin c) guanosine and retin d) opsin and retinal | etinol and retinene and retinol | | Exploitation of bioresources of a nation by multinational companies without authorization from the concerned country is referred to as a) Biowar b) Bioweapon c) Biopiracy d) Bioethics | | |
| | in the adult. a) ACTH c) MSH | b) GH d) TSH | 42. | Relatively small DNA r | nolecules of plasmids | |
| | The increase in blood f stimulates secretion of a) Renin b) Oxytocin c) Antidiuretic hormon d) Atrial natriuretic fac | e | 43. | a) due to similarity to original nuclea molecule b) by their restriction fragment patter c) by the size of bacterial cell d) by their circular shape 43. Which of the following is not a comp | | |
| 35. | Coca alkaloid or cocair a) Datura b) Papaver somniferun c) Atropa belladonna | e is obtained from: | 44. | of downstream proces a) Expression c) Purification In gene therapy, | b) Separation d) Preservation | |
| 36. | d) Erythroxylum coca One of the following so with the transport of d a) Morphine | opamine. b) Heroin | | gene DNase. a) Pituitary dwarfism b) Hepatitis - B c) Haemophilia d) Cystic fibrosis | | |
| 37. | c) Cocaine Inbreeding depression continuous a) Intra-breeding b) Inter-breeding c) Inter-generic breeding d) Inter-specific breeding | ng | | An enzyme catalyzing nucleotides from ends a) Protease c) Endonuclease The transgenic animal produced for all of the EXCEPT | of DNA is b) DNA ligase d) Exonuclease s are generally | |
| | Which of the following buffalo? a) Gir b) Nili c) Nagpuri d) Sura | | | a) Testing of chemical safetyb) Testing of vaccine safetyc) Stimulation of pathogenicityd) Production of pharmacologically | | |
| | Which of the following removes suspended so a) Tertiary treatment b) Secondary treatmer | olids | 47. | important proteins Decomposers are a) autotrophs c) organotrophs | b) heterotrophs d) autoheterotrophs | |

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- 48. Natural reservoir of phosphorus is
 - a) Sea water
- b) Animal bones
- c) Rock
- d) Fossils
- 49. Which one of the following is NOT the in siu conservation of biodiversity?
 - a) Zoological parks
 - b) Wildlife sanctuaries
 - c) National parks
 - d) Biosphere reserves
- 50. Afforestation is
 - a) restoring a forest
 - b) plantation in barren lands
 - c) cultivation under agriculture
 - d) hum cultivation