MHT-CET Practice Question Paper

Subject: Biology

Time: 25 minutes Test no : 05 Marks : 100

All the questions are compulsory and contain two marks for each

1.	is the most convenient and cheap method of artificial vegetative propagation. a) Grafting b) Budding c) Cutting d) Micropropagation	 8. Incubation period of Treponema pallium is about a) 2 to 14 days b) 7 to 21 days c) 1 to 2 weeks d) 3 to 4 weeks
2.	Which one of the following is NOT a disadvantage of self-pollination? a) No scope for developing improved varieties b) Progeny becomes weaker c) Genetic stability can be maintained d) Less adaptability to climatic variations	 9. The technique used to block the passage of sperm in male a) Tubectomy b) Vasectomy c) Coitus interruptus d) Rhythm method 10. What is "After birth" referred to? a) Amniotic fluid passing out
3.	In some species of family Asteraceae seeds are produced without fertilization. It is called as	 b) Expulsion of baby c) Expulsion of placenta, umbilical cord and foetal membrane d) Secretion of hormone relaxin
4.	a) apomixis b) amphimixis c) parthenocarpy d) vivipary Which character of angiosperms helped in their dominance on earth a) Formation of seeds b) Formation of endosperm c) Double fertilization d) Presence of xylem vessels	 11. Ectoderm gives rise to a) cornea, heart, bronchi, dentine b) adrenal cortex, tongue, liver, retina c) lungs, adrenal medulla, dermis, thyroid d) enamel of teeth, nails, adrenal medulla, hair 12. The prostatic fluid forms about of total volume of semen.
5.	The suspensor during the development of an angiosperm embryo is formed from a) basal cell b) apical cell	a) 60% b) 50% c) 40% d) 30% 13. Among the following characters, which one was NOT considered by Mendel in his
6.	c) embryonal cell d) generative cell The megasporangium proper of an angiosperm ovule is represented by a) integument b) funicle	experiments on pea? a) Stem-Tall or Dwarf b) Trichomes -Glandular or non-glandular c) Seed-Green or Yellow d) Pod- Inflated or Coastricted
7.	c) nucellus d) micropyle Assisted Reproductive Technology does not include a) Zygote extra fallopian transfer b) In vitro fertilization and Embryo transfer	14. The number of phenotype recombinant offsprings formed during F2 generation of a dihybrid cross are a) 9/16 b) 7/16 c) 6/16 d) 4/16
	c) Artificial insemination d) Gamete intra fallopian transfer	15. A cross between two pea plants tall with axial flowers and dwarf with terminal

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flowers produced offsprings tall with axial
flowers and tall with terminal flowers in the
ratio 1: 1. What er Will be the genotype of
parents?

- a) TTAa x ttaa
- b) TtAa x ttaa
- c) TtAA x ttaa
- d) TTAA X ttaa
- 16. A couple, both carriers for the gene sickle cell anaemia planning to get married, want to know the chances of having anaemic progeny?
 - a) 100%
- b) 75%
- c) 50%
- d) 25%
- 17. Which one of the following RNA polymerase subunits recognizes and binds to promoter?
 - a) α- subunit
- b) β- subunit
- c) Y- subunit
- d) σ- subunit
- 18. Restriction endonuclease. DNA fingerprinting. carries out following process
 - a) Fragmentation of DNA
 - b) Getting copies of DNA
 - c) Loading DNA on agarose plate
 - d) Synthesis of DNA
- 19. Alec Jeffreys used _____ as genetic marker.
 - a) HUMULIN
 - b) Radioactive probe
 - c) RFLP
 - d) VNTR
- 20. How many sense codons code for 20 known essential amino acids?
 - a) 61
- b) 62
- c) 63
- d) 64
- 21. Genetic drift operates in
 - a) slow reproductive population
 - b) small isolated population
 - c) large isolated population
 - d) non-reproductive population
- 22. Which of the following is not a connecting link?
 - a) Archaeopteryx
 - b) Dryopithecus
 - c) Ichthyostega
 - d) Seymouria
- 23. A column of water within xylem vessels of tall trees does not break under its weight

because of

- a) Positive root pressure
- b) Dissolved sugars in water
- c) Tensile strength of water
- d) Lignification of xylem vessels
- 24. Stomata in grass leaf are
 - a) rectangular
- b) kidney shaped
- c) dumb-bell shaped
- d) barrel shaped
- 25. Define phenomenon called "Apical dominance" in plants is due to phytohormone
 - a) Cytokinins
- b) Auxins
- c) ABA
- d) Gibberellins
- 26. During seed germination, its stored food is mobilised by
 - a) Ethylene
- b) Cytokinin
- c) ABA
- d) Gibberellin
- 27. The following do not undergo cell division
 - a) de-differentiated cells
 - b) liver cells
 - c) red blood cells
 - d) skin cells
- 28. Which is NOT the function of lymph?
 - a) Transport RBCs
 - b) Drain excess tissue fluid
 - c) Transport lymphocyte and antibodies
 - d) Transport absorbed fat
- 29. In ECG, P-wave represents
 - a) Ventricular repolarisation
 - b) Ventricular depolarisation
 - c) Atrial depolarisation
 - d) Atrial repolarisation
- 30. Deposition of fatty substances in the lining of arteries is termed as
 - a) Arteriosclerosis
- b) Atherosclerosis
- c) Arthritis
- d) Angiogenesis
- 31. The study of blood vessels is termed as
 - a) angiology
- b) cardiology
- c) haematology
- d) histology
- 32. Atrial systole lasts for_____ in cardiac cycle
 - a) 0.1 second
- b) 0.3 second
- c) 0.5 second
- d) 0.7 second

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33.	Muscular ridges at inner surface of ventricles are called a) chordae tendinae b) inter ventricular septum	42.	2. Transgenic animals are extensively used for all of the following procedures EXCEPT a) Bioremediation b) Chemical safety c) Vaccine safety d) Toxicity 3. Which of the following is NOT a feature of the plasmids? a) Transferable b) Single-stranded c) Independent replication d) Circular structure 4. What triggers activation of protoxin to active Bt toxin of the Bacillus thuringiensis in boll worm? a) Alkaline pH of gut b) Acidic pH of stomach c) Body temperature d) Moist surface of mid gut			
	c) papillary muscle d) trabeculae carnae	43				
	Which of the following is an occupational respiratory disorder? a) Botulism b) Silicosis c) Anthracis d) Emphysema					
	Blind spot in retina is the area where a) Rods and cones are absent b) Only cones are present c) Rods and cones are present d) Only rods are present Hypercalcaemic hormone is a) Aldosterone b) Calcitriol	44.				
37.	c) PTH d) TCT Cytotoxic T-cells are a) Helper T-cells b) Killer T-cells	45.	In which field occurs? a) Biomedicin c) Environmer	e	b) Agriculture d) All of the above	
	c) Memory T-cells d) Suppressor T-cells	46.	Insect pest resistant Bt-cotton plant was developed using a) Somaclonal variation b) Micropropagation c) Somatic hybridization d) Transgenic technology			
38.	Heroin is extracted from the latex of plant ——— a) Atropa belladona b) Claviceps purpurea					
	c) Erythroxylum coca d) Papaver somniferum	47.	. Biological interaction between organisms of different species in which each individual			
39.	"Pusa Sadabahar" is resistant todisease a) Leaf curl and chilli mosaic virus		receives bene a) commensal c) parasitism		ed b) amensalism d) mutualism	
	b) Leaf and stripe rustc) Black rotd) Curl blight black rot	48.	The principle of competitive exclusion was stated by a) Verhulst and Pearl			
40.	 Mule is an example of a) Cross-breeding b) Interspecific hybridization c) Out breeding d) Out crossing 	49	b) C. Darwin c) G.F. Gause d) MacArthur			
			The xerarch succession of organisms is seen in			
41.	Following are all breeds of cows, EXCEPT a) Jersey b) Nagpuri		a) River c) Air	b) Ocea d) Dese	ert	
	c) Sahiwal d) Sindhi	50				

