## KCET Board Exam – 2022-23

## Subject: Biology

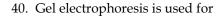
1.	An example of dioecious plant:					
	(A) Mango	(B) Papaya	(C) Cucurbita	(D) Coconut		
2.	Stalk of the Stamen is:					
	(A) Petiole	(B) Peduncle	(C) Filament	(D) Pedicel		
3.	The ovule of angiosperm is technically known as:					
	(A) megaspore mother cell		(B) Megaspore	(B) Megaspore		
	(C) Megasporangium		(D) Megasporophyll			
4.	Typical mature embryosac of angiosperm is					
	(A) 7 nucleated 8 celled structure		(B) 8 nucleated 1 celled structure			
	(C) 8 nucleated 8 celled structure		(D) 8 nucleated 7 celled structure			
5.	One of the 2000 years old viable seed, discovered during the archaeological excavation at King Herold's					
	near dead sea.					
	(A) Maize	(B) Lupin	(C) Sunflower	(D) Phoenix dactylifera		
6.	The testis are situated outside the abdominal cavity in scrotum as it helps as					
	(A) Maintain the low temperature		(B) Regulates hormone secretion			
	(C) Store sperm		(D) Release sperm	(D) Release sperm		
7.	Identify the odd one from the following:					
	(A) Infundibulum	(B) isthmus	(C) Fimbriae	(D) labia minora		
8.	In which month of gestation, the first movements of foetus and appearance of hair on its head is					
	observed?					
	(A) 5 <sup>th</sup> month	(B) 8 <sup>th</sup> month	(C) 1 <sup>st</sup> month	(d) 4 <sup>th</sup> month		
9.	The most abundant type of	f WBC cell is				
	(A) Eosinophils	(B) Monocytes	(C) Basophils	(D) neutrophils		
10.	Filtration of blood during urine formation takes place in					
	(A) Collecting duct	(B) glomerulus	(C) DCT	(D) PCT		
11.	Corpus Callosum connects the					
	(A) Cerebrum and cerebellum		(B) Spinal cord with t	(B) Spinal cord with the brain		
	(C) two lobes of cerebellum		(D) two cerebral hemispheres			
12.	Menstrual cycle is exhibited by:					
	(A) Apes	(B) Tiger	(C) Cow	(D) Rat		
13.	The first human like being	is				
	(A) Homo sapiens	(B) Homo menthus	(C) Homo erectus	(D) Homo habilis		
14.	XO type of sex determination and XY type of sex determination are the examples of					
	(A) Male Homogamety		(B) Female Homogamety			
	(C) Male Heterogamety		(D) Female Heterogamety			
15.	Example for Non- Mendelian disorder:					
	(A) Thalassemia	(B) Cystic fibrosis	(C) haemophilia	(D) Down's syndrome		

16. Gynecomastia is a syn	nptom of				
(A) Turner's synd	rome	(B) Cri-du-chat syndrome			
(C) Down's syndr	ome	(D) Klinefelter's synd	(D) Klinefelter's syndrome		
17. The affected male in the	he pedigree chart is symbo	olized by			
(A)	(B)	(C)	(D) (		
10 The class I'm a second					
18. The given diagram rep					
	H1 Histone DNA				
(A) Nucleosome	(B) Mesosome	(C) Chromosome	(D) Ribosome		
19. Which of the following	g hormones is not secreted	d by human placenta?			
(A) Progestogen	(B) FSH	(C) hCG	(D) Relaxin		
20. Which of the following	g is correctly matched?				
(A) Bulbil - Agave	2	(B) Spores - Sponge			
(C) Conidia - Hyo	(C) Conidia - Hydra		(D) Gemmules - Amoeba		
21. The technique advised by a doctor to overcome the problem of infertility:					
(A) RCH	(B) RTI	(C) MTP	(D) ART		
22. Amniocentesis is a pro	ocess to:				
(A) To grow cell o	(A) To grow cell on culture medium		(B) Determine the sex of the foetus		
(C) Determine any	disease of heart	(D) Know about the	(D) Know about the disease of brain		
23. Identify the most infec	ctious and fatal type of ma	alarial parasite:			
(A) Plasmodium falciparum		(B) Plasmodium ovale			
(C) Plasmodium vivax		(D) Plasmodium malariae			
24. The type of antibodies	produced during the alle	ergic reaction			
(A) Ig G	(B) Ig M	(C) Ig A	(D) Ig E		
25. One of the side-effect	of the use of anabolic stere	oids in females			
(A) Cirrhosis of liv	ver				
(B) Masculinisation	n				
(C) Loss of memor	ry				
(D) Hallucination					
26. Which one of the following is a opiate narcotics?					
(A) Amphatamine	es	(B) LSD			
(C) Barbiturates		(D) Morphine	(D) Morphine		

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27. The large holes in 'Swiss – Cheese' are made by a					
	(A) Bacterium produc	ing a large amount of $C$	$O_2$		
	(B) Fungus that releases a lot of gases during metabolic activities				
	(C) Machine				
	(D) Bacterium that pro	oduces methane gas			
28.	Which vitamin is increased	d by 'LAB' in curd?			
	(A) Vitamin $B_{12}$	(B) Vitamin E	(C) Vitamin C	(D) Vitamin B	
29.	Enzyme which is useful to	remove the oily stains i	in laundry?		
	(A) Amylase	(B) Lipase	(C) Renin	(D) Protease	
30.	DNA replicates semi conservatively was first shown in:				
	(A) Plants	(B) Higher animals	(C) Esherichia coli	(D) Human cell	
31.	A series of experiment were conduct by Frederick Griffith in 1928, on transforming principle with:				
	(A) Salmonella typhimurium		(B) Streptococcus pneumoniae		
	(C) Escherichia coli		(D) Bacillus thuringiens	is	
32.	The number of codons effective in coding twenty amino acids:				
	(A) 64	(B) 20	(C) 61	(D) 32	
33.	Which aspect forms the basis of DNA finger-printing?				
	(A) The Satellite DNA	showing high degree of	f repetition in DNA segme	ents.	
	(B) The amount of DNA found in samples of blood, saliva and skin.				
	(C) The ratio of purine	es and pyrimidines prese	ent in DNA		
	(D) The sequence of D	rint.			
34.	Silencing of specific mRN.	A in RNAi is by			
	(A) ssDNA	(B)dsDNA	(C) SSRNA	(D) dsRNA	
35.	Cry-IAC effectively contro	ols,			
	(A) Root nematode	(B) Ring worm	(C) Cotton bollworms	(D) Corn borer	
36.	ADA deficiency can be cur	red by			
	(A) Kidney Transplantation		(B) Heart Transplantation		
	(C) Bone-marrow Transplantation		(D) Liver Transplantation		
37.	Average natality rate in our village is 25, average morality is 24, immigration 2 and emigration 3 and the				
	net increase in population				
	(A) 10	(B) 27	(C) 0	(D) 5	
38.	The term "Molecular Sciss	sors" refers to			
	(A) Restriction enzym	e	(B) Taq polymerase		
	(C) Polymerase-I		(D) Polymerase-II		
39.	What does the sample of given base sequence represent?				
	5'-GAATTC-3'				
	3'-CTTAAG-5'				
	(A) Completion of rep	lication	(B) Palindromic seque	nce	
	(C) Initiator codon at 5' end		(D) Deletion mutation		

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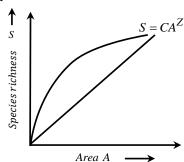
- (A) Separation of DNA fragments according to their size.
- (B) Cutting of DNA into fragments.
- (C) Construction of recombinant DNA by joining with cloning vectors.
- (D) Isolation of DNA molecule.
- 41. An antibiotic resistance gene in a vector usually helps in the selection of
  - (A) Non-recombinant cells

(B) Non-competent cells

(C) Competent cells

(D) Transformed cells

42. The given graph represents



(A) Population growth

(B) Species area relationship

(C) Enzyme activity

(D) Growth of organisms

- 43. Cuscuta is an example of
  - (A) Ectoparasitism

(B) Predation

(C) Board Parasitism

- (D) Endoparasitism
- 44. Particulates of \_\_\_\_\_ size pose greatest risk to human health.
  - (A) Less than 3.5 micrometers in diameter
  - (B) Less than 7.5 micrometers in diameter
  - (C) Less than 2.5 micrometers in diameter
  - (D) Less than 4.5 micrometers in diameter
- 45. Maintenance of constant internal environment is called as
  - (A) Thermoregulation (B) Osmoregulation
- (C) Metastasis
- (D) Homeostasis

- 46. The animals which are active during day time:
  - (A) Vesporal
- (B) Cresporal
- (C) Diurnal
- (D) Auroral
- 47. Which of the following statements is incorrect related to biomes?
  - (A) High temperature and minimum rainfall helps to form grasslands.
  - (B) Low temperature and less rainfall are characteristics of Tundra biomes.
  - (C) Variation in temperature and mean precipitation accounts for the major biomes.
  - (D) More rainfall and low temperature is the characteristics of deserts.
- 48. The amount of Photosynthesis active radiation captured by plant is
  - (A) 60 70 percent
- (B) 12 20 percent
- (C) 20 30 percent
- (D) 2 10 percent
- 49. Which of the following plant is used to extract Colchicine?
  - (A) Asparagus
- (B) Tulip
- (C) Colchicum
- (D) Aloe

50. Rows of S-shaped setae in the body of earthworm are present in all the segments, except				
	<ul><li>(A) the first, last and clitellum</li><li>(C) the last segment</li></ul>		(B) the first segment	
			(D) the first and last segment	
51.	Cell theory was formulated	l to		
	(A) Schleiden and Robe	ert Brown	(B) Schwann and Rober	t Brown
	(C) Schleiden and Schwann		(D) Robert Hook and Robert Brown	
52.	The type of Polysaccharide	present in a cotton fibre		
	(A) Cellulose	(B) Glycogen	(C) Starch	(D) Insulin
53.	Enzyme involved in crossir	ng over		
	(A) Endonuclease	(B) Lygase	(C) Recombinase	(D) Polymerase
54. Kranz anatomy can be seen in				
	(A) Pea	(B) Maize	(C) Tomato	(D) Potato
55.	Respiratory quotient of glu	cose is		
	(A) 0.9	(B) 1.0	(C) 0	(D) 0.7
56. A person suddenly starts coughing while swallowing food. This coughing would have be				ng would have been due to
	improper movement of			
	(A) Neck	(B) Tongue	(C) Epiglottis	(D) Diaphragm
57.				
	(A) Bentham and Hooker		(B) John Ray	
	(C) Carolus Linnaeus		(D) Lamarck	
58.	8. Bovine spongiform encephalopathy is caused by			
	(A) Virus	(B) Fungi	(C) Viroids	(D) Prions
59.	9. Phycoerythrin and Floridean starch is found in			
	(A) Brown algae	(B) Red algae	(C) Blue – green algae	(D) Green algae
60. Different types of respiratory organ like gills, book gills, book lungs and trachea are present in				hea are present in
	(A) Arthropods	(B) Annelids	(C) Sponges	(D) Molluscs

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