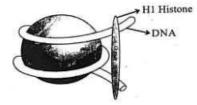
KCET 2022 Question Paper Biology (Code-C4)

- 1. Amniocentesis is a process to:
 - 1) Determine the sex of the foctus
 - 2) Determine any disease of heart
 - 3) Know about the disease of brain
 - 4) To grow cell on culture medium
- 2. The first human like being is
 - 1) Homo menthus
 - 2) Homo crectus
 - 3) Homo habilis
 - 4) Homo sapiens
- XO type of sex determination and XY type of 3. sex determination are the examples of
 - 1) Female Homogamety
 - 2) Male Heterogamety
 - 3) Female Heterogamety
 - 4) Male Homogamety
- 4. Example of Non-Mendelian disorder:
 - 1) Cystic fibrosis
 - 2) Haemophilia
 - 3) Down's syndrome
 - 4) Thalassemia
- 5. Gynecomastia is a symptom of
 - 1) Cri-du-chat syndrome
 - 2) Down's syndrome
 - 3) Kline Felter's syndrome
 - 4) Tuner's syndrome

6. The affected male in the pedigree chart is symbolized by:



7. The given diagram represents:



- 1) Mesosome
- 2) Chromosome
- 3) Ribosome
- 4) Nucleosome
- 8. Which of the following hormones is not secreted by human placenta?
 - 1) FSH
- 2) hCG
- 3) Relaxin
- 4) Progestogen
- 9. Which of the following is correctly matched?
 - 1) Spores-Sponge
- 2) Conidia-Hydra
- 3) Gemmules-Amoeba 4) Bulbil-Agave

3) ART

- 10. The technique advised by a doctor to overcome the problem of infertility:
 - 1) RTI
- 2) MTP
- 4) RCH



11.	printing? 1) The amount of DN blood, saliva and skin. 2) The ratio of purines	he basis of DNA finger- NA found in samples of and pyrimidines present	18.	Enzyme which is ustains in laundry? 1) Lipase 3) Protease	2) Renin 4) Amylase	
	in DNA.3) The Sequence of DNA present in the ridges and grooves of finger-prints4) The Satellite DNA showing high degree of repetition in DNA segments		19.	DNA replicates sem shown in: 1) Higher animals 3) Human cell	iconservatively was first 2) Esherichia coil 4) Plants	
12.	Identify the most infermalarial parasite: 1) Plasmodium ovale 2) Plasmodium vivax 3) Plasmodium malari 4) Plasmodium falcipa		20.	A series of experiments were conducted by Frederick Griffith in 1928, on transforming principle with: 1) Streptococcus pneumoniae 2) Escherichia coli 3) Bacillus thuringiensis 4) Salmonella typhimurium		
13.	The type of antibodie allergic reaction 1) Ig M 2) Ig A	s produced during the 3) Ig E 4) Ig G	21.	The number of cotwenty amino acids: 1) 20 2) 61	dons effective in coding 3) 32 4) 64	
14. 15.	steroids in females 1) Masculinisation 3) Hallucination Which one of the females	of the use of anabolic 2) Loss of memory 4) Cirrhosis of liver ollowing is a opiate	22.	An antibiotic resistance gene in a vector usually helps in the selection of 1) Non-competent cells 2) Competent cells 3) Transformed cells 4) Non-recombinant cells		
16.	narcotics? 1) LSD 3) Morphine The large holes in 'Sw	2) Barbiturates 4) Amphatamines riss-Cheese' are made by	23.	Silencing of specific 1) dsDNA 3) dsRNA	mRNA in RNAi is by 2) SSRNA 4) ssDNA	
	 The large holes in 'Swiss-Cheese' are made by a 1) Fungus that releases a lot of gases during metabolic activities 2) Machine 3) Bacterium that produces methane gas 4) Bacterium producing a large amount of CO₂ 		24.	Cry-IAC effectively controls, 1) Ring worm 2) Cotton bollworms 3) Corn borer 4) Root nematode		
17.	Which vitamin is increases by 'LAB' in curd?		25.	ADA deficiency can be cured by 1) Heart Transplantation 2) Bone-marrow Transplantation		

1) Vitamin E

3) Vitamin B

2) Vitamin C

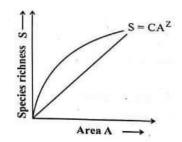
4) Vitamin B_{12}



3) Liver Transplantation

4) Kidney Transplantation

- 26. Average natality rate in our village is 25, average mortality is 24, immigration 2 and emigration 3 and the net increase M population is:
 - 1) 27
- 2) 0
- 3) 5
- 4) 10
- 27. The term "Molecular Scissors" refers to
 - 1) Taq polymerase
- 2) Polymerase-I
- 3) Polymerase-II
- 4) Restriction enzyme
- 28. What does the sample of given base sequence represent?
 - 5' GAATTC 3'
 - 3' CTTAAG 5'
 - 1) Palindromic sequence
 - 2) Initiator codon at 5' end
 - 3) Deletion mutation
 - 4) Completion of replication
- 29. Gel electrophoresis is used for
 - 1) Cutting of DNA into fragments
 - 2) Construction of recombinant DNA by joining with cloning vectors
 - 3) Isolation of DNA molecule
 - 4) Separation of DNA fragments according to their size
- 30. The amount of Photosynthetically active radiation captured by plants is
 - 1) 12 20 percent
- 2) 20 30 percent
- 3) 2 10 percent
- 4) 60 70 percent
- 31. The given graph represents



- 1) Species area relationship
- 2) Enzyme activity
- 3) Growth of organisms
- 4) Population growth

- 32. Cuscuta is an example of
 - 1) Predation
- 2) Broad Parasitism
- 3) Endoparasitism
- 4) Ectoparasitism
- 33. Particulates of ___ size pose greatest risk to human health.
 - 1) Less than 7.5 micrometers in diameter
 - 2) Less than 2.5 micrometers in diameter
 - 3) Less than 4.5 micrometers in diameter
 - 4) Less than 3.5 micrometers in diameter
- 34. Maintenance of constant internal environment is called as
 - 1) Osmoregulation
- 2) Metastasis
- 3) Homeostasis
- 4) Thermoregulation
- 35. The animals which are active during day time:
 - 1) Cresporal
- 2) Diurnal
- 3) Auroral
- 4) Vesporal
- 36. Which of the following statement is incorrect related to biomes?
 - 1) Low temperature and less rainfall is a characteristics of Tundra biomes.
 - 2) Variation in temperature and mean precipitation accounts for the major biomes.
 - 3) More rainfall and low temperature is the characteristics of deserts.
 - 4) High temperature and minimum rainfall help to form grasslands.
- 37. Different types of respiratory organs like gills, book gills, book lugs and trachea are present in
 - 1) Annelids
- 2) Sponges
- 3) Molluscs
- 4) Arthropods
- 38. Which of the following plants is used to extract Colchicine?
 - 1) Tulip
- 2) Colchicum
- 3) Aloe
- 4) Asparagus



39.	Rows of S-shaped setae in the body of earthworm are present in all the segments, except 1) The first segment 2) The last segment			Bovine spongiform encephalopathy is caused by			
				1) Fungi 2) Viroids			
				3) Prions			
				,	,		
	3) The first and last segment						
	4) The first, last and clitellum			Phycoerythrin and F	Phycoerythrin and Floridean starch i		
				1) Red algae	2) Blue –	green algae	
				3) Green algae	4) Brown	algae	
40.	Cell theory was formulated by						
	1) Schwann and Robert Brown						
	2) Schleiden and Schwann			Menstrual cycle exhi	-	42. 4	
	3) Robert Hook and Robert Brown			1) Tiger 2) Cow	3) Rat	4) Apes	
	4) Schleiden and Robert Brown						
			50.	An example of dioec	ious plant		
41.	The type of Polysaccharide present in a cotton			1) Papaya	2) Cucurt	oita	
	fibre			3) Coconut	4) Mango	ı	
	1) Glycogen	2) Starch					
	3) Insulin	4) Cellulose					
			51.	Stalk of the Stamen			
				1) Peduncle	2) Filame		
42.	Enzyme involved in	_		3) Pedicel	4) Petiole		
	1) Lygase	2) Recombinase					
	3) Polymerase	4) Endonuclease	52.	The exple of engine	novo ia toab	nigally lynasym	
			52.	The ovule of angios	perm is tech	ilically known	
43.	Kranz anatomy can be seen in			1) Megaspore			
43.	1) Maize 2) Tomato			2) Megasporangium			
	3) Potato 4) Pea			3) Megasporophyl			
	,	,		4) Megaspore mothe	r cell		
							
44.	Respiratory quotient of glucose is 1) 1.0 2) 0 3) 0.7 4) 0.9			Tynical mature embi	rvosac of an	giosparm is	
	1) 1.0 2) 0	3) 0.7	53.	Typical mature embryosac of angiosperm1) 8 nucleated 1 celled structure			
				2) 8 nucleated 8 cell			
45.	A person suddenly starts coughing while			3) 8 nucleated 7 cell			
	swallowing food. This coughing would have			4) 7 nucleated 8 cell			
	been due to imprope	er movement of					
	1) Tongue	2) Epiglottis					
	3) Diaphragm	4) Neck	54.	One of the 2000	-		
				discovered during th	_	ical excavatior	
	P: :1 1			an King Herold's near			
46.	Binomial nomenclature is introduced by			1) Lupin	2) Sunflo	wer	
	1) John Ray			3) Phoenix dactylifer	a 4) Maize		
	2) Carolus Linnaeus3) Lamarck						
	4) Bentham and Hooker			The testis are situat	ed outside t	he abdominal	
	-, 20114111 4114 110	·	55.	cavity in scortum as			
				1) Regulates harmon			
				2) Store sperm			
				3) Release sperm			
				4) Maintain the low	temperature		



- 56. Identify the odd one from the following
 - 1) Isthamus
- 2)Fimbriae
- 3) Labia minora
- 4) Infundibulum
- 57. In which mong of gestation, the first movements of foetus and appearance of hair ion its head is observed?
 - 1) 8th month
- 2) 1st month
- 3) 4th month
- 4) 5th month
- 58. The most abundant type of WBC cells
 - 1) monocytes
- 2) Basophils
- 3) Neutrophils
- 4) Eosinophils
- 59. Filtration of blood during urine formation takes place in
 - 1) Glomerulus
- 2) DCT
- 3) PCT
- 4) Collecting duct
- 60. Corpus callosum connects the
 - 1) Spinal cord with the brain
 - 2) Two lobes of cerebellum
 - 3) Two cerebral hemispheres
 - 4) Cerebrum and cerebellum