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:

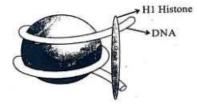


2)





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



11.	Which aspect forms the basis of DNA finger-printing? 1) The amount of DNA found in samples of blood, saliva and skin. 2) The ratio of purines and pyrimidines present in DNA.	18.	Enzyme which is use stains in laundry? 1) Lipase 3) Protease	eful to remove the oily 2) Renin 4) Amylase	
	3) The Sequence of DNA present in the ridges		DNA replicates semiconservatively was first		
	and grooves of finger-prints4) The Satellite DNA showing high degree of repetition in DNA segments		shown in: 1) Higher animals 3) Human cell	2) Esherichia coil4) Plants	
12.	Identify the most infectious and fatal type of malarial parasite: 1) Plasmodium ovale 2) Plasmodium vivax 3) Plasmodium malariae 4) Plasmodium falciparum	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 antibodies produced during the allergic reaction 1) Ig M 2) Ig A 3) Ig E 4) Ig G	21.	The number of codo twenty amino acids: 1) 20 2) 61	ons effective in coding 3) 32 4) 64	
14.	One of the side-effect of the use of anabolic steroids in females 1) Masculinisation 2) Loss of memory 3) Hallucination 4) Cirrhosis of liver	22.	An antibiotic resistance gene in a vector usually helps in the selection of 1) Non-competent cells 2) Competent cells 3) Transformed cells		
15.	Which one of the following is a opiate narcotics?		4) Non-recombinant cells		
	1) LSD 2) Barbiturates 3) Morphine 4) Amphatamines	23.	Silencing of specific m 1) dsDNA 3) dsRNA	nRNA in RNAi is by 2) SSRNA 4) ssDNA	
16.	The large holes in 'Swiss-Cheese' are made by a				
	 Fungus that releases a lot of gases during metabolic activities Machine Bacterium that produces methane gas Bacterium producing a large amount of CO₂ 		Cry-IAC effectively con 1) Ring worm 3) Corn borer	ntrols, 2) Cotton bollworms 4) Root nematode	
			ADA deficiency can be cured by 1) Heart Transplantation		
17	Which vitamin is increases by 'LAB' in curd?	1	2) Bone-marrow Transplantation		

Which vitamin is increases by 'LAB' in curd?

2) Vitamin C

4) Vitamin B_{12}

17.

1) Vitamin E

3) Vitamin B

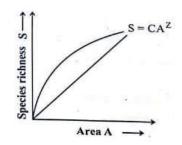


4) Kidney Transplantation

3) Liver 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		47.	Bovine spongiform by 1) Fungi 3) Prions	encephalopat 2) Viroids 4) Virus	
	3) The first and last segment		40	DI di li	DI .I .	1 1 .
	4) The first, last and clitellum		48.	, ,		green algae
				3) Green algae	4) Brown	algae
40.	Cell theory was formulated by					
	 Schwann and Robert Brown Schleiden and Schwann Robert Hook and Robert Brown 		40	Manatural avala avl	aibited by	
			49.	Menstrual cycle exhibited by 1) Tiger 2) Cow 3) Rat 4) Apes		
	4) Schleiden and Robert Brown			i) ligei 2) cow	3) Kat	4) Apes
	tj Schleiden and Rol	Sert Brown				
			50.	An example of dioe	cious plant	
41.	The type of Polysaccharide present in a cotton			1) Papaya	2) Cucurb	ita
	fibre			3) Coconut	4) Mango	
	1) Glycogen	2) Starch				
	3) Insulin	4) Cellulose				
			51.	Stalk of the Stamer		
42	Francisco involved in			1) Peduncle	2) Filame	nt
42.	Enzyme involved in (1) Lygase	2) Recombinase		3) Pedicel	4) Petiole	
	3) Polymerase	4) Endonuclease				
	3) I olymerase 4) Emonacicase		52.	The ovule of angios	sperm is tech	nically known
				as		
43.	Kranz anatomy can	be seen in		1) Megaspore		
	1) Maize	2) Tomato		2) Megasporangium		
	3) Potato	4) Pea		3) Megasporophyl		
				4) Megaspore moth	er cell	
44.	Respiratory quotient	of alucase is				
77.	1) 1.0 2) 0	3) 0.7 4) 0.9	53.	Typical mature emb	orvosac of ans	iosperm is
	,	,		1) 8 nucleated 1 celled structure		
				2) 8 nucleated 8 cel	lled structure	
45.	A person suddenly starts coughing while			3) 8 nucleated 7 cel	lled structure	
	swallowing food. This coughing would have			4) 7 nucleated 8 cel	lled structure	
	been due to imprope					
	1) Tongue	2) Epiglottis	5 4	0	1.1	:-1-1-
	3) Diaphragm	4) Neck	54.	One of the 2000 discovered during t	•	
				an King Herold's nea	_	cai excavatioi
46.	Binomial nomenclature is introduced by			1) Lupin	2) Sunfloy	ver
	1) John Ray			3) Phoenix dactylife	-	
	2) Carolus Linnaeus			,	,	
	3) Lamarck					
	4) Bentham and Hooker		55.	The testis are situa		ne abdominal
				cavity in scortum a		
				1) Regulates harmo	ne secretion	
				2) Store sperm		
				3) Release sperm	, tomposeties-	
				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