

KCET 2022 Question Paper BIOLOGY (Code- A1)

1.	Filtration of blood during urine formation tak (A) Collecting duct (B) DCT	tes place in (C) Glomerulus	(D) PCT	
2.	Corpus Callosum connects the (A) Cerebrum and cerebellum (C) Spinal cord with the brain	(B) Two lobes of cere (D) Two cerebral hem	bellum nispheres	
3.	Menstrual cycle is exhibited by: (A) Apes (B) Cow	(C) Tiger	(D) Rat	
4.	An example of dioecious plant: (A) Mango (B) Cucurbita	(C) Papaya	(D) Coconut	
5.	Stalk of the Stamen is: (A) Petiole (B) Filament	(C) Peduncle	(D) Pedicel	
6.	The ovule of angiosperm is technically known (A) Megaspore mother cell (C) Megaspore	n as: (B) Megasporangium (D) Megasporophyll		
7.	Typical mature embryosac of angiosperm is (A) 7 nucleated 8 celled structure (C) 8 nucleated 1 celled structure	(B) 8 nucleated 8 cells (D) 8 nucleated 7 cells		
8.	One of the 2000 years old viable seed, discovered during the archeological excavation at King Herold's near dead sea.			
	(A) Maize (C) Lupin	(B) Sunflower(D) Phoenix dactylifer	ra	
9.	The testis are situated outside the abdominal (A) Maintain the low temperature	cavity in scortum as it he (B) Store sperm	elps to	
	(C) Regulates harmone secretion	(D) Release sperm	100 0 200 0 100	
10.	Identify the odd one from the following: (A) Infundibulum (B) Fimbriae	(C) Isthamus	(D) Labia minora	
11.	In which month of gestation, the first movements of foetus and appearance of hair on its head is observed?			
	(A) 5 th month (B) 1 st month	(C) 8 th month	(D) 4 th month	
12.	The most abundant type of WBC cells (A) Eosinophils (B) Basophils	(C) Monocytes	(D) Neutrophils	
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13.	Which of the follow (A) Bulbil - Agav	wing is correctly matche	ed ? (B) Conidia – Hyd	ra
	(C) Spores - Spon	ge	(D) Gemmules - A	
14.	The technique advi (A) RCH	sed by a doctor to overc (B) MTP		
15.	Amniocentesis is a (A) To grow cell o (C) Determine the	n culture medium	(B) Determine any (D) Know about th	disease of heart e disease of brain
16.	The first human lik (A) Homo sapiens	e being is (B) Homo erectus	(C) Homo menthus	s (D) Homo habilis
17.	XO type of sex dete (A) Male Homogai (C) Female Homog	mety	of sex determination are the examples of (B) Male Heterogamety (D) Female Heterogamety	
18.	Example for Non-M (A) Thalassemia	Mendelian disorder: (B) Haemophilia	(C) Cystic fibrosis	(D) Down's syndrome
19.	Gynecomastia is a s (A) Turner's syndr (C) Cri-du-chat syn	ome	(B) Down's syndrome (D) Kline Felter's syndrome	
20.	The affected male in the pedigree chart is symbolized by:			
	(A)	(B)	(C)	(D) O
21.	The given diagram	H1 Histone		A grant
	DNA			
	(A) Nucleosome	(B) Chromosome	(C) Mesosome	(D) Ribosome
22.	Which of the follow (A) Progestogen	ing hormones is not secr	reted by human placenta (C) FSH	(D) Relaxin

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23.	principle with :	y Frederick Griffith in	1928, on transforming	
	(A) Salmonella typhimurium(C) Streptococcus pneumoniae	(B) Escherichia coli (D) Bacillus thuringi	iensis	
24.	The number of codons effective in coding tw (A) 64 (B) 61	venty amino acids: (C) 20	(D) 32	
25.	Which aspect forms the basis of DNA finger-printing? (A) The Satellite DNA showing high degree of repetition in DNA segments. (B) The ratio of purines and pyrimidines present in DNA. (C) The amount of DNA found in samples of blood, saliva and skin. (D) The Sequence of DNA present in the ridges and grooves of finger-prints.			
26.	Identify the most infectious and fatal type of (A) Plasmodium falciparum (C) Plasmodium ovale	malarial parasite: (B) Plasmodium viva (D) Plasmodium mala		
27.	The type of antibodies produced during the a (A) Ig G (B) Ig A	llergic reaction (C) Ig M	(D) Ig E	
28.	One of the side-effect of the use of anabolic s (A) Cirrhosis of liver (B) Loss of memory	eteroids in females (C) Masculinisation	(D) Hallucination	
29.	Which one of the following is a opiate narcot (A) Amphatamines (B) Barbiturates	ics ? (C) LSD	(D) Morphine	
30.	The large holes in 'Swiss – Cheese' are made (A) Bacterium producing a large amount of (B) Machine (C) Fungus that releases a lot of gases during (D) Bacterium that produces methane gas	CO ₂		
1.	Which vitamin is increased by 'LAB' in curd (A) Vitamin B ₁₂ (B) Vitamin C	? (C) Vitamin E	(D) Vitamin B	
2.	Enzyme which is useful to remove the oily sta (A) Amylase (B) Renin	ins in laundry? (C) Lipase	(D) Protease	
3.	DNA replicates semiconservatively was first s (A) Plants (B) Esherichia coli	shown in: (C) Higher animals	(D) Human cell	

34.	What does the sample of given base sequence represent? 5' - GAATTC - 3' 3' - CTTAAG - 5'		
	(A) Completion of replication(C) Palindromic sequence	(B) Initiator codon at 5' end(D) Deletion mutation	
35.	Gel electrophoresis is used for (A) Separation of DNA fragments according to (B) Construction of recombinant DNA by join (C) Cutting of DNA into fragments. (D) Isolation of DNA molecule.	o their size. ning with cloning vectors.	
36.	An antibiotic resistance gene in a vector usually helps in the selection of		
	(A) Non-recombinant cells	(B) Competent cells	
	(C) Non-competent cells	(D) Transformed cells	
37.	Silencing of specific mRNA in RNAi is by		
	(A) ssDNA	(B) SSRNA	
	(C) dsDNA	(D) dsRNA	
38.	Cry-IAC effectively controls,		
	(A) Root nematode (B) Cotton bollworms	(C) Ring worm (D) Corn borer	
39.	ADA deficiency can be cured by		
	(A) Kidney Transplantation	(B) Bone-marrow Transplantation	
	(C) Heart Transplantation	(D) Liver Transplantation	
40. Average natality rate in our village emigration 3 and the net increase in population		average mortality is 24, immigration 2 and is:	
	(A) 10 (B) 0	(C) 27 (D) 5	
41.	The term "Molecular Scissors" refers to		
	(A) Restriction enzyme	(B) Polymerase-I	
	(C) Taq polymerase	(D) Polymerase-II	
	(C) Tay polymerase		

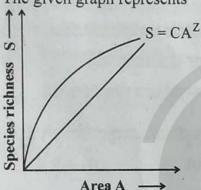
- 42. The animals which are active during day time:
 - (A) Vesporal
- (B) Diurnal
- (C) Cresporal
- (D) Auroral
- 43. Which of the following statement is incorrect related to biomes?
 - (A) High temperature and minimum rainfall help to form grasslands.
 - (B) Variation in temperature and mean precipitation accounts for the major biomes.
 - (C) Low temperature and less rainfall is a characteristics of Tundra biomes.
 - (D) More rainfall and low temperature is the characteristics of deserts.
- 44. The amount of Photosynthetically active radiation captured by plants is
 - (A) 60 70 percent

(B) 20 - 30 percent

(C) 12 - 20 percent

(D) 2 - 10 percent

45. The given graph represents



- (A) Population growth
- (C) Species area relationship

- (B) Enzyme activity
- (D) Growth of organisms

- 46. Cuscuta is an example of
 - (A) Ectoparasitism
 - (C) Predation

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

49.	Bovine spongiform en (A) Virus	cephalopathy is caused (B) Viroids	l by (C) Fungi	(D) Prions
50.	Phycoerythrin and Flo (A) Brown algae	oridean starch is found i (B) Blue – green alga	in ae (C) Red algae	(D) Green algae
51.	Different types of re	spiratory organs like	gills, book gills, b	ook lungs and trachea are
	present in (A) Arthropods	(B) Sponges	(C) Annelids	(D) Molluscs
52.	Which of the following (A) Asparagus	ng plant is used to extra (B) Colchicum	ct Colchicine ? (C) Tulip	(D) Aloe
53.	Rows of S-shaped setae in the body of earthworm are present in all the segments, excess (A) the first, last and clitellum (B) the last segment (C) the first segment (D) the first and last segment		ent	
54.	Cell theory was form (A) Schleiden and Ro (C) Schwann and Ro	obert Brown	(B) Schleiden and Schwann (D) Robert Hook and Robert Brown	
55.	The type of Polysacci (A) Cellulose	haride present in a cotto (B) Starch	on fibre (C) Glycogen	(D) Insulin
		The same of the		
56.	Enzyme involved in (A) Endonuclease		(C) Lygase	(D) Polymerase
57.	Kranz anatomy can b			
	(A) Pea	(B) Tomato	(C) Maize	(D) Potato
58.	Respiratory quotient (A) 0.9	of glucose is (B) 0	(C) 1.0	(D) 0.7
59. A person suddenly starts coughing while swallowing food. This coughing would due to improper movement of			s coughing would have been	
	(A) Neck	(B) Epiglottis	(C) Tongue	(D) Diaphragm
60.	Binomial nomenclature is introduced by			
	(A) Bentham and Ho	ooker	(B) Carolus Lin	naeus
	(C) John Ray		(D) Lamarck	