KCET 2022 Question Paper BIOLOGY (Code- A1)

1.	Filtration of blood during urine formation takes place in (A) Collecting duct (B) DCT (C) Glomerulus (D) PCT			(D) PCT	
2.	Corpus Callosum cor (A) Cerebrum and co (C) Spinal cord with	erebellum	(B) Two lobes of cerebellum (D) Two cerebral hemispheres		
3.	Menstrual cycle is ex (A) Apes	hibited by : (B) Cow	(C) Tiger	(D) Rat	
4.	An example of dioec (A) Mango	ious plant : (B) Cucurbita	(C) Papaya	(D) Coconut	
5.	Stalk of the Stamen is (A) Petiole	s: (B) Filament	(C) Peduncle	(D) Pedicel	
6.	The ovule of angiosp (A) Megaspore moth (C) Megaspore		wn as : (B) Megasporangium (D) Megasporophyll		
7.	7. Typical mature embryosac of angiosperm is (A) 7 nucleated 8 celled structure (B) 8 nucleated 8 celled (C) 8 nucleated 1 celled structure (D) 8 nucleated 7 celled				
8.	One of the 2000 year King Herold's near d		iscovered during the a	rcheological excavation a	
	(A) Maize (C) Lupin		(B) Sunflower (D) Phoenix dacty	lifera	
9.			al cavity in scortum as	it helps to	
	(A) Maintain the low(C) Regulates harmon		(B) Store sperm (D) Release sperm		
10.	Identify the odd one in (A) Infundibulum	from the following: (B) Fimbriae	(C) Isthamus	(D) Labia minora	
11.	In which month of g head is observed?	estation, the first mo	vements of foetus and	appearance of hair on its	
	(A) 5 th month	(B) 1 st month	(C) 8 th month	(D) 4 th month	
12.	The most abundant ty (A) Eosinophils	pe of WBC cells (B) Basophils	(C) Monocytes	(D) Neutrophils	

3.	Which of the following is correctly matched?		23.	23. A series of experiments were conducted by Frederick Griffith in 1928, on transforming principle with:		
	(A) Bulbil – Agave	(B) Conidia – Hyd			(A) Salmonella typhimurium (B) Es	scherichia coli
	(C) Spores – Sponge	(D) Gemmules – A	moeba		(C) Streptococcus pneumoniae (D) Bo	acillus thuringiensis
4.	The technique advised by a doctor to overce (A) RCH (B) MTP	ome the problem of inf (C) RTI	ertility: (D) ART	24.	The number of codons effective in coding twenty ami (A) 64 (B) 61 (C) 20	
5.	(A) To grow cell on culture medium (C) Determine the sex of the foetus	(B) Determine any (D) Know about the	e disease of brain	25.		
7.	XO type of sex determination and XY type (A) Male Homogamety (C) Female Homogamety		e the examples of mety	26.		
8.	Example for Non-Mendelian disorder: (A) Thalassemia (B) Haemophilia	(C) Cystic fibrosis	(D) Down's syndrome	27.	The type of antibodies produced during the allergic rea (A) Ig G (B) Ig A (C) Ig	
9.	(A) Turner's syndrome	(B) Down's syndro		28.	One of the side-effect of the use of anabolic steroids in (A) Cirrhosis of liver (B) Loss of memory (C) Ma	females sculinisation (D) Hallucination
0.	(C) Cri-du-chat syndrome The affected male in the pedigree chart is syn	(D) Kline Felter's s mbolized by:	yndrome	29.	Which one of the following is a opiate narcotics? (A) Amphatamines (B) Barbiturates (C) LS:	D (D) Morphine
	(A) (B)	(C)	(D) O	30.	The large holes in 'Swiss – Cheese' are made by a (A) Bacterium producing a large amount of CO ₂	
1.	The given diagram represents: H1 Histone DNA				 (B) Machine (C) Fungus that releases a lot of gases during metaboli (D) Bacterium that produces methane gas 	c activities
				31.	Which vitamin is increased by 'LAB' in curd? (A) Vitamin B ₁₂ (B) Vitamin C (C) Vita	amin E (D) Vitamin B
	(A) Nucleosome (B) Chromosome	(C) Mesosome	(D) Ribosome	32.	Enzyme which is useful to remove the oily stains in lau (A) Amylase (B) Renin (C) Lip	
2.	Which of the following hormones is not secretal (A) Progestogen (B) hCG	eted by human placenta (C) FSH	(D) Relaxin	33.	DNA replicates semiconservatively was first shown in (A) Plants (B) Esherichia coli (C) Hig	her animals (D) Human cell
	Space For Ro	ugh Work			Space For Rough Work	

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

42.	The animals which are active during	(C) Cresporal (D) Auroral				
	(A) Vesporal (B) Diurnal	(C) Cresporal (D) Auroral				
43.	Which of the following statement is (A) High temperature and minimum (B) Variation in temperature and m (C) Low temperature and less rainf (D) More rainfall and low temperature	n rainfall help to form grasslands. ean precipitation accounts for the major biomes all is a characteristics of Tundra biomes.				
44.	The amount of Photosynthetically a	ctive 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 $S = CA^{Z}$ Area A \rightarrow					
	(A) Population growth	(B) Enzyme activity				
	(C) Species area relationship	(D) Growth of organisms				
46.	Cuscuta is an example of					
- TO TO S	(A) Ectoparasitism	(B) Broad Parasitism				
	(C) Predation	(D) Endoparasitism				

(B) Less than 2.5 micrometers in diameter (C) Less than 7.5 micrometers in diameter (D) Less than 4.5 micrometers in diameter

(A) Thermoregulation (B) Metastasis

(C) Osmoregulation (D) Homeostasis

Space For Rough Work



49.	Bovine spongiform er (A) Virus	(B) Viroids	by (C) Fungi	(D) Prions	
50.	Phycoerythrin and Flo (A) Brown algae	oridean starch is found i (B) Blue – green alga	n ne (C) Red algae	(D) Green algae	
51.	Different types of represent in	espiratory organs like	gills, book gills, b	ook lungs and trachea are	
	(A) Arthropods	(B) Sponges	(C) Annelids	(D) Molluscs	
52.		ng plant is used to extra			
	(A) Asparagus	(B) Colchicum	(C) Tulip	(D) Aloe	
53.				all the segments, except	
	(A) the first, last and clitellum (C) the first segment			(B) the last segment(D) the first and last segment	
54.	Cell theory was formulated by (A) Schleiden and Robert Brown (C) Schwann and Robert Brown		(B) Schleiden and Schwann (D) Robert Hook and Robert Brown		
55.	The type of Polysacc	haride present in a cotto	on fibre		
	(A) Cellulose	(B) Starch	(C) Glycogen	(D) Insulin	
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 s due to improper mov	rement of	The man enter	s coughing would have been	
	(A) Neck	(B) Epiglottis	(C) Tongue	(D) Diaphragm	
60.	Binomial nomenclate (A) Bentham and He (C) John Ray		(B) Carolus Lin (D) Lamarck	naeus	