

KCET – 2022 TEST PAPER WITH ANSWER KEY (HELD ON THURSDAY 16^{TH} JUNE 2022)

BIOLOGY

1.	Filtration of blood during urine formation takes p	ation of blood during urine formation takes place in				
	(A) Collecting duct	(B) DCT				
	(C) Glomerulus	(D) PCT				
Ans	s. C					
2.	Corpus Callosum connects the					
	(A) Cerebrum and cerebellum	(B) Two lobes of cerebellum				
	(C) Spinal cord with the brain	(D) Two cerebral hemispheres				
Ans	s. D					
3.	Menstrual cycle is exhibited by:					
	(A) Apes	(B) Cow				
	(C) Tiger	(D) Rat				
Ans	s. A					
4.	An example of dioecious plant:					
	(A) Mango	(B) Cucurbita				
	(C) Papaya	(D) Coconut				
Ans	s. C					
5.	Stalk of the Stamen is:					
	(1) Petiole	(2) Filament				
	(3) Peduncle	(4) Pedicel				
Ans	s. B					
6.	The ovule of angiosperm is technically known as	:				
	(A) Megaspore mother cell	(B) Megasporangium				
	(C) Megaspore	(D) Megasporophyll				
Ans	s. B					
7.	Typical mature embryosac of angiosperm is					
	(A) 7 nucleated 8 celled structure	(B) 8 nucleated 8 celled structure				
	(C) 8 nucleated 1 celled structur	(D) 8 nucleated 7 celled structure				
Ans	s. D					
8.	One of the 2000 years old viable seed, discovered during the archeological excavation at King Herold's near dead sea.					
	(A) Maize	(B) Sunflower				
	(C) Lupin	(D) Phoenix dactylifera				
Ans	s. D					
9.	The testis are situated outside the abdominal cavity in scortum as it helps to					
	(A) Maintain the low temperature	(B) Store sperm				
	(C) Regulates harmone secretion	(D) Release sperm				
Ans	s. A					



Fimbriae Labia minora
Labia minora
s and appearance of hair on its head is observed?
st month
4 th month
Basophils
Neutrophils
Conidia - Hydra
Gemmules - Amoeba
em of infertility:
MTP
ART
Determine any disease of heart
Know about the disease of brain
Homo erectus
Homo habilis
nination are the examples of
Male Heterogamety
Female Heterogamety
Haemophilia
Down's syndrome
Down's syndrome
Kline Felter's syndrome
-

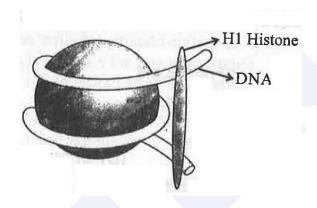


20.	The affected	male in	the	pedigree	chart	is s	vmbolized b	v :

(1) (2) (

Ans. A

21. The given diagram represents:



(A) Nucleosome

(B) Chromosome

(C) Mesosome

(D) Ribosome

Ans. A

- 22. Which of the following hormones is not secreted by human placenta?
 - (A) Progestogen

(B) hCG

(C) FSH

(D) Relaxin

Ans. C

- 23. A series of experiments were conducted by Frederick Griffith in 1928, on transforming principle with:
 - (A) Salmonella typhimurium

- (B) Escherichia coli
- (C) Streptococcus pneumoniae
- (D) Bacillus thuringiensis

Ans. C

- 24. The number of codons effective in coding twenty amino acids
 - (A) 64

(B) 61

(C) 20

(D) 32

Ans. B

- **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.

Ans. A

- **26.** Identify the most infectious and fatal type of malarial parasite :
 - (A) Plasmodium falciparum

(B) Plasmodium vivax

(C) Plasmodium ovale

(D) Plasmodium malariae

Ans. A



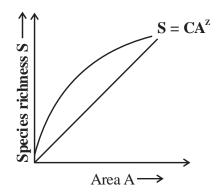
27.	The type of antibodies produced during the allergic reaction					
	(A) Ig G	(B) Ig A				
	(C) Ig M	(D) Ig E				
Ans	. D					
28.	ds in females					
	(A) Cirrhosis of liver	(B) Loss of memory				
	(C) Masculinisation	(D) Hallucination				
Ans	. C					
29.	Which one of the following is a opiate narcotics?					
	(A) Amphatamines	(B) Barbiturates				
	(C) LSD	(D) Morphine				
Ans	. D					
30.	The large holes in 'Swiss - Cheese' are made by a					
	(A) Bacterium producing a large amount of CO ₂					
	(B) Machine					
	(C) Fungus that releases a lot of gases during metal	polic activities				
	(D) Bacterium that produces methane gas					
Ans	. A					
31.	Which vitamin is increased by 'LAB' in curd?					
	(A) Vitamin B ₁₂	(B) Vitamin C				
	(C) Vitamin E	(D) Vitamin B				
Ans	. A					
32.	Enzyme which is useful to remove the oily stains in	Enzyme which is useful to remove the oily stains in laundry?				
	(A) Amylase	(B) Renin				
	(C) Lipase	(D) Protease				
Ans	. C					
33.	DNA replicates semiconservatively was first shown	n in:				
	(A) Plants	(B) Esherichia coli				
	(C) Higher animals	(D) Human Cell				
Ans	. В					
34.	What does the sample of given base sequence repr	resent ?				
	5' - GAATTC - 3'					
	3' - CTTAAG - 5'					
	(A) Completion of replication	(B) Initiator codon at 5' end				
	(C) Palindromic sequence	(D) Deletion mutation				
Ans	. C					
35.	Gel electrophoresis is used for					
	(A) Separation of DNA fragments according to their size.					
	(B) Construction of recombinant DNA by joining with cloning vectors.					
	(C) Cutting of DNA into fragments.					
	(D) Isolation of DNA molecule.					
Ans	. A					



BENG	ALURU, KARNATAKA					
	An antibiotic resistance gene in a vector usually h	elps in the selection of				
	(A) Non-recombinant cells	(B) Competent Cells				
	(C) Non-competent cells	(D) Transformed cells				
Ans	. D					
37.	Silencing of specific mRNA in RNAi is by					
	(A) ssDNA	(B) SSRNA				
	(C) dsDNA	(D) dsRNA				
Ans	. D					
38.	Cry-IAC effectively controls,					
	(A) Root nematode	(B) Cotton bollworms				
	(C) Ring worm	(D) Corn borer				
Ans	. В					
39.	ADA deficiency can be cured by					
	(A) Kidney Transplantation	(B) Bone-marrow Transplantation				
	(C) Heart Transplantation	(D) Liver Transplantation				
Ans	. В					
40.	Average natality rate in our village is 25, average mortality is 24, immigration 2 and emigration 3 and the net increase in population is :					
	(A) 10	(B) 0				
	(C) 27	(D) 5				
Ans	. В					
41.	The term "Molecular Scissors" refers to					
	(A) Restriction enzyme	(B) Polymerase-I				
	(C) Taq polymerase	(D) Polymerase-II				
Ans	. A					
42.	The animals which are active during day time:					
	(A) Vesporal	(B) Diurnal				
	(C) Cresporal	(D) Auroral				
Ans	. B					
43.	Which of the following statement is incorrect rela	ted 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.					
Ans	. D					
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				
Ans	. D					



45. The given graph represents



- (A) Population growth
- (C) Species area relationship
- Ans. C
- **46.** Cuscuta is an example of
 - (A) Ectoparasitism
 - (C) Predation

- (B) Enzyme activity
- (D) Growth of organisms
- (B) Broad Parasitism
- (D) Endoparasitism

Ans. A

- **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

Ans. B

- 48. Maintenance of constant internal environment is called as
 - (A) Thermoregulation

(B) Metastasis

(C) Osmoregulation

(D) Homeostasis

Ans. D

- **49.** Bovine spongiform encephalopathy is caused by
 - (A) Virus

(B) Viroids

(C) Fungi

(D) Prions

Ans. D

- **50.** Phycoerythrin and Floridean starch is found in
 - (A) Brown algae

(B) Blue - green algae

(C) Red algae

(D) Green algae

Ans. C

- 51. Different types of respiratory organs like gills, book gills, book lungs and trachea are present in
 - (A) Arthropods

(B) Sponges

(C) Annelids

(D) Molluscs

Ans. A



52.	52. Which of the following plant is used to extract Colchicine?			
	(A) Asparagus	(B)	Colchicum	
	(C) Tulip	(D)	Aloe	
Ans	. B			
53. Rows of S-shaped setae in the body of earthworm are present in all the segments, except				
	(A) The first, last and clitellum	(B)	The last segment	
	(C) The first segment	(D)	The first and last segment	
Ans	. A			
54.	Cell theory was formulated by			
	(A) Schleiden and Robert Brown	(B)	Schleiden and Schwann	
	(C) Schwann and Robert Brown	(D)	Robert Hook and Robert Brown	
Ans	. B			
55.	The type of Polysaccharide present in a cotton fibre			
	(A) Cellulose	(B)	Starch	
	(C) Glycogen	(D)	Insulin	
Ans	. A			
56.	Enzyme involved in crossing over			
	(A) Endonuclease	(B)	Recombinase	
	(C) Lygase	(D)	Polymerase	
Ans	. В			
57.	Kranz anatomy can be seen in			
	(A) Pea	(B)	Tomato	
	(C) Maize	(D)	Potato	
Ans	. C			
58.	Respiratory quotient of glucose is			
	(A) 0.9	(B)	0	
	(C) 1.0	(D)	0.7	
Ans	. C			
59.	69. A person suddenly starts coughing while swallowing food. This coughing would have been due to improvement of			
	(A) Neck	(B)	Epiglottis	
	(C) Tongue	(D)	Diaphragm	
Ans	. В			
60.	Binomial nomenclature is introduced by			
	(A) Bentham and Hooker	(B)	Carolus Linnaeus	
	(C) John Ray	(D)	Lamarck	
Ans	. B			