

**BIOLOGY - CET 2022 - VERSION CODE - C-2**  
**KEYS**

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

11. In which month of gestation, the first movements of foetus and appearance of hair on its head is observed?

- (A) 4<sup>th</sup> month                      (B) 5<sup>th</sup> month                      (C) 8<sup>th</sup> month                      (D) 1<sup>st</sup> month

**Ans (B)**

12. The most abundant type of WBC cells

- (A) Neutrophils                      (B) Eosinophils                      (C) Monocytes                      (D) Basophils

**Ans (A)**

13. Which of the following is correctly matched?

- (A) Gemmules – *Amoeba*                      (B) Bulbil – Agave  
(C) Spores – Sponge                      (D) Conidia – *Hydra*

**Ans (B)**

14. The technique advised by a doctor to overcome the problem of infertility:

- (A) ART                      (B) RCH                      (C) RTI                      (D) MTP

**Ans (A)**

15. Amniocentesis is a process to

- (A) Know about the disease of brain                      (B) To grow cell on culture medium  
(C) Determine the sex of the foetus                      (D) Determine any disease of heart

**Ans (C)**

16. The first human like being is

- (A) *Homo habilis*                      (B) *Homo sapiens*                      (C) *Homo menthus*                      (D) *Homo erectus*

**Ans (A)**

17. XO type of sex determination and XY type of sex determination are the examples of

- (A) Female Heterogamety                      (B) Male Homogamety  
(C) Female Homogamety                      (D) Male Heterogamety

**Ans (D)**

18. Example for Non-Mendelian disorder:

- (A) Down's syndrome                      (B) Thalassemia                      (C) Cystic fibrosis                      (D) Haemophilia

**Ans (A)**

19. Gynaecomastia is a symptom of

- (A) Klinefelter's syndrome                      (B) Turner's syndrome  
(C) Cri-du-chat syndrome                      (D) Down's syndrome

**Ans (A)**

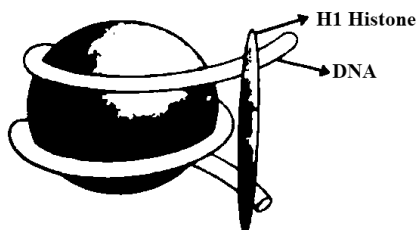
20. The affected male in the pedigree chart is symbolized by

- (A)                       (B)                       (C)                       (D) 

**Ans (B)**

21. The given diagram represents:

- (A) Ribosome  
 (B) Nucleosome  
 (C) Mesosome  
 (D) Chromosome



**Ans (B)**

22. Which of the following hormones is not secreted by human placenta?

- (A) Relaxin  
 (B) Progesterone  
 (C) FSH  
 (D) hCG

**Ans (C)**

23. A series of experiments were conducted by Frederick Griffith in 1928, on transforming principle with:

- (A) *Bacillus thuringiensis*  
 (B) *Salmonella typhimurium*  
 (C) *Streptococcus pneumoniae*  
 (D) *Escherichia coli*

**Ans (C)**

24. The number of codons effective in coding twenty amino acids:

- (A) 32  
 (B) 64  
 (C) 20  
 (D) 61

**Ans (D)**

25. Which aspect forms the basis of DNA finger-printing?

- (A) The Sequence of DNA present in the ridges and grooves of finger-prints.  
 (B) The Satellite DNA showing high degree of repetition in DNA segments.  
 (C) The amount of DNA found in samples of blood, saliva and skin.  
 (D) The ratio of purines and pyrimidines present in DNA.

**Ans (B)**

26. Identify the most infectious and fatal type of malarial parasite:

- (A) *Plasmodium malariae*  
 (B) *Plasmodium falciparum*  
 (C) *Plasmodium ovale*  
 (D) *Plasmodium vivax*

**Ans (B)**

27. The type of antibodies produced during the allergic reaction

- (A) Ig E  
 (B) Ig G  
 (C) Ig M  
 (D) Ig A

**Ans (A)**

28. One of the side-effect of the use of anabolic steroids in females

- (A) Hallucination  
 (B) Cirrhosis of liver  
 (C) Masculinisation  
 (D) Loss of memory

**Ans (C)**

29. Which one of the following is a opiate narcotics?

- (A) Morphine  
 (B) Amphetamines  
 (C) LSD  
 (D) Barbiturates

**Ans (A)**

30. The large holes in 'Swiss – Cheese' are made by a  
 (A) Bacterium that produces methane gas  
 (B) Bacterium producing a large amount of CO<sub>2</sub>  
 (C) Fungus that releases a lot of gases during metabolic activities  
 (D) Machine  
**Ans (B)**
31. Which vitamin is increased by 'LAB' in curd?  
 (A) Vitamin B                      (B) Vitamin B<sub>12</sub>                      (C) Vitamin E                      (D) Vitamin C  
**Ans (B)**
32. Enzyme which is useful to remove the oily stains in laundry?  
 (A) Protease                      (B) Amylase                      (C) Lipase                      (D) Renin  
**Ans (C)**
33. DNA replicates semiconservatively was first shown in:  
 (A) Human cell                      (B) Plants                      (C) Higher animals                      (D) *Esherichia coli*  
**Ans (D)**
34. What does the sample of given base sequence represent?  
 5' – GAATTC – 3'  
 3' – CTTAAG – 5'  
 (A) Deletion mutation                      (B) Completion of replication  
 (C) Palindromic sequence                      (D) Initiator codon at 5' end  
**Ans (C)**
35. Gel electrophoresis is used for  
 (A) Isolation of DNA molecule.  
 (B) Separation of DNA fragments according to their size.  
 (C) Cutting of DNA into fragments.  
 (D) Construction of recombinant DNA by joining with cloning vectors.  
**Ans (B)**
36. An antibiotic resistance gene in a vector usually helps in the selection of  
 (A) Transformed cells                      (B) Non-recombinant cells  
 (C) Non-competent cells                      (D) Competent cells  
**Ans (A)**
37. Silencing of specific mRNA in RNAi is by  
 (A) dsRNA                      (B) ssDNA  
 (C) dsDNA                      (D) SSRNA  
**Ans (A)**
38. *Cry-IAC* effectively controls,  
 (A) Corn borer                      (B) Root nematode  
 (C) Ring worm                      (D) Cotton bollworms  
**Ans (D)**

39. ADA deficiency can be cured by  
 (A) Liver Transplantation (B) Kidney Transplantation  
 (C) Heart Transplantation (D) Bone-marrow Transplantation  
**Ans (D)**
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) 5 (B) 10 (C) 27 (D) 0  
**Ans (D)**
41. The term “Molecular Scissors” refers to  
 (A) Polymerase-II (B) Restriction enzyme  
 (C) *Taq* polymerase (D) Polymerase-I  
**Ans (B)**
42. The animals which are active during day time  
 (A) Auroral (B) Vesporal (C) Cresporal (D) Diurnal  
**Ans (D)**
43. Which of the following statement is incorrect related to biomes?  
 (A) More rainfall and low temperature is the characteristics of deserts.  
 (B) High temperature and minimum rainfall help to form grasslands.  
 (C) Low temperature and less rainfall is a characteristics of Tundra biomass.  
 (D) Variation in temperature and mean precipitation accounts for the major biomes.  
**Ans (A)**
44. The amount of Photosynthetically active radiation captured by plants is  
 (A) 2-10 percent (B) 60-70 percent (C) 12-20 percent (D) 20-30 percent  
**Ans (A)**
45. The given graph represents
- (A) Growth of organisms  
 (B) Population growth  
 (C) Species area relationship  
 (D) Enzyme activity
- Ans (C)**
46. *Cuscuta* is an example of  
 (A) Endoparasitism (B) Ectoparasitism (C) Predation (D) Broad Parasitism  
**Ans (B)**
47. Particulates of \_\_\_\_\_ size pose greatest risk to human health  
 (A) Less than 4.5 micrometers in diameter (B) Less than 3.5 micrometers in diameter  
 (C) Less than 7.5 micrometers in diameter (D) Less than 2.5 micrometers in diameter  
**Ans (D)**

48. Maintenance of constant internal environment is called as

- (A) Homeostasis (B) Thermoregulation  
(C) Osmoregulation (D) Metastasis

**Ans (A)**

49. Bovine spongiform encephalopathy is caused by

- (A) Prions (B) Virus  
(C) Fungi (D) Viroids

**Ans (A)**

50. Phycoerythrin and Floridean starch is found in

- (A) Green algae (B) Brown algae  
(C) Red algae (D) Blue-green algae

**Ans (C)**

51. Different types of respiratory organs like gills, book gills, book lungs and trachea are present in

- (A) Molluscs (B) Arthropods  
(C) Annelids (D) Sponges

**Ans (B)**

52. Which of the following plant is used to extract Colchicine?

- (A) *Aloe* (B) *Asparagus*  
(C) *Tulip* (D) *Colchicum*

**Ans (D)**

53. Rows of S-shaped setae in the body of earthworm are present in all the segments, except

- (A) the first and last segment (B) the first, last and clitellum  
(C) the first segment (D) the last segment

**Ans (B)**

54. Cell theory was formulated by

- (A) Robert Hook and Robert Brown (B) Schleiden and Robert Brown  
(C) Schwann and Robert Brown (D) Schleiden and Schwann

**Ans (D)**

55. The type of Polysaccharide present in a cotton fibre

- (A) Insulin (B) Cellulose  
(C) Glycogen (D) Starch

**Ans (B)**

56. Enzyme involved in crossing over

- (A) Polymerase (B) Endonuclease  
(C) Lygase (D) Recombinase

**Ans (D)**

57. Kranz anatomy can be seen in

- (A) Potato (B) Pea (C) Maize (D) Tomato

**Ans (C)**

58. Respiratory quotient of glucose is

- (A) 0.7                      (B) 0.9                      (C) 1.0                      (D) 0

**Ans (C)**

59. A person suddenly starts coughing while swallowing food. This coughing would have been due to improper movement of

- (A) Diaphragm                      (B) Neck  
(C) Tongue                      (D) Epiglottis

**Ans (D)**

60. Binomial nomenclature is introduced by

- (A) Lamarck                      (B) Bentham and Hooker  
(C) John Ray                      (D) Carolus Linnaeus

**Ans (D)**

\* \* \*

