

NOTE: There are three sections of this paper. Carefully read the instructions for each section and attempt accordingly. Attempt all questions of Section-A and return it to the Superintendent within given time, even if you have not attempted any question. Select the correct choice and write only A, B, C or D, whichever is appropriate, in the answer box. No marks will be awarded for cutting/erasing or overwriting.

SECTION-A

Time: 20 Minutes

Marks: 18

1. In a eukaryotic cell the krebs cycle occurs in: A) cytosol, B) nucleus, C) chloroplast, D) mitochondria D
2. Rat belongs to the order of sub-class Eutheria. A) insectivora, B) cetacea, C) rodentia, D) carnivora .. C
3. Appendix is part of: A) colon, B) duodenum, C) ilium, D) caecum A
4. The optimum pH for pepsin to work is: A) 6.8, B) 5.5, C) 4.5, D) 2 D
5. Which one of the given bacteria is non-motile? A) spirillum, B) bacilli, C) s. typhi, D) coccus D
6. Penicillium is an example of: A) basidiomycota, B) ascomycota, C) zygomycota, D) dueteromycota B
7. The most prominent cell organelle is a bacterial cell other than DNA is: A) mesosome, B) lysosome, C) nucleosome, D) ribosome D
8. The unicellular organism made up of 2-shells which fit like a box with a lid: A) water mold, B) paramecium, C) diatom, D) amoeba C
9. Lysosome were discovered by: A) De-Duva, B) Palade, C) Portor, D) Linneus A
10. Which body system is most directly concerned with vaccination? A) digestive, B) respiratory, C) immune, D) circulatory C
11. The conversion of winter variety into spring variety by lowering the temperature is called: A) photoperiodism, B) vernallization, C) grafting, D) sowing B
12. Fibers like flex, hemp are made up of: A) epidermis, B) cholenchyma, C) parenchyma cell, D) scleronchyma D
13. DNA is more or less present in all except: A) nucleus, B) chromosome, C) cytosol, D) mitochondrion B
14. B-cells production takes place in: A) bone marrow, B) thymus, C) liver, D) spleen A
15. The most highly developed plants are the: A) bryophytes, B) pteridophytes, C) gymnosperm, D) angiosperm D
16. All photosynthetic autotrophs prepare their organic food by using: A) CO₂, B) H₂O, C) H₂S, D) nitrogen A
17. Brahmi-booli is an example of: A) umbel, B) corymb, C) catkin, D) panicle A
18. The deoxygenated blood is transported by artery. A) carotid, B) coronary, C) pulmonary, D) renal C

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BIOLOGY (New Book)
PART-I

Time: 2 Hours 40 Minutes

SECTION-B

Marks: 40

1. Attempt any ten of the following. All carry equal marks.
 - i. Write a note on transformation in bacteria.
 - ii. Define symbiosis.
 - iii. Differentiate between coelomates and acoelomates.
 - iv. Write a short note on centriole.
 - v. How does change of materials take place through capillary bed?
 - vi. Write a note on peptide bond.
 - vii. Explain classification of virus.
 - viii. What is alcoholic fermentation?
 - ix. How does enzyme work on induced fit hypothesis.
 - x. Write a short note on photoperiodism.
 - xi. What do you mean by chemical digestion in human?
 - xii. List four benefits of fever.
 - xiii. Write a note on evolution of microphyllous leaf.

SECTION-C

Marks: 27

NOTE: Attempt any three of the following questions. All questions carry equal marks.

2. Write a detailed note on life cycle of gymnosperm.
3. Define respiration. Describe Krebs's cycle in detail.
4. Write a detailed note on monosaccharide.
5. Write note on any two of the following:
 - i. Transduction in Bacteria
 - ii. Reptiles
 - iii. Tactic Movements