

## MARCH - 2022 (Summer session) Examination

Subject Code: 81680

(विद्यार्थ्यांनी हा विषय कोड OMR वर लिहावा / Student should fill this code on OMR sheet)

Subject Name: B.Sc. (CBCS)\_81680\_58071/65842/81680/81882 - Botany Paper XIII\_20.07.2022\_1.00 PM

Date: 20-07-2022

Time: 13:00:00 to 14:00:00

QP Code: 7868QP

Total Marks : 50 Each Question 2 Marks, Total 25 Ques, Duration 1 Hr

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1. Carbohydrates contain .....%of dry weight of the plants.
    - a. A 10
    - b. B 40
    - c. C 60
    - d. D 80
  2. ....are the basic units of carbohydrates which cannot be further hydrolysed.
    - a. A Disaccharides
    - b. B Monosaccharides
    - c. C Trisaccharides
    - d. D Polysaccharides
  3. Proteins are .....of high molecular weight.
    - a. A linear polymers
    - b. B monomers
    - c. C dimers
    - d. D pentamers
  4. Amino acids are a group of organic components containing .....functional groups.
    - a. A one
    - b. B two
    - c. C three
    - d. D four
  5. Fatty acids are the organic acids with a long .....
    - a. A carbon chain
    - b. B phosphorus chain
    - c. C nitrogen chain
    - d. D hydrocarbon chain
  6. Nucleic acid consist of monomer called as .....
    - a. A nucleotide
    - b. B nucleoside
    - c. C nitrogen base
    - d. D none of these
  7. Pyrimidine has.....ring structure.
    - a. A double
    - b. B single
    - c. C triple
    - d. D five
  8. Disaccharides are composed of two monosaccharide's linked by .....
    - a. A O - glycosidic bond
    - b. B A - glycosidic bond
    - c. C C - glycosidic bond
    - d. D X - glycosidic bond

9. ....sugar is present in the milk of mammals.
- a. A Fructose  
c. C Glucose
- b. B Lactose  
d. D Galactose
10. Bile acids are .....which are useful for digestion of fats in intestine.
- a. A steroids  
c. C proteins
- b. B alkalis  
d. D hydrocarbons
11. Proteins contain..... % of nitrogen
- a. A 13 – 19  
c. C 60 – 73
- b. B 50 – 60  
d. D 0 – 4
12. The point at which the molecules has equal +ve and -ve charges is called as.....
- a. A electric point  
c. C trielectric point
- b. B dielectric point  
d. D isoelectric point
13. ....forms the backbone of double stranded structure of DNA.
- a. A Sugar and phosphate chain  
c. C phosphate chain and nitrogen base
- b. B sugar phosphate and pentose sugar  
d. D none of these
14. Adenine pairs with thymine and guanine always pairs with cytosine and vice – versa, such type pairing is called as.....
- a. A supplementary base pairing  
c. C supplementary base pairing and complementary base pairing both
- b. B complementary base pairing  
d. D none of these
15. In sugar ring an additional asymmetric carbon atom is created called as.....
- a. A anomeric carbon  
c. C trimeric carbon
- b. B dimeric carbon  
d. D oligomeric carbon
16. ....bond is covalent bond formed by the condensation reaction between a sugar and the – OH group of other compound.
- a. A Non – glycosidic  
c. C Hydrogen
- b. B Glycosidic  
d. D Phosphate
17. Fatty acids are ..... at room temperature.
- a. A vapours  
c. C liquid
- b. B gas  
d. D solid
18. Bloor classified lipids into .....groups.
- a. A one  
c. C three
- b. B two  
d. D four

19. Phenyl aniline is an example of .....amino acid.

- a. A aliphatic
- b. B heterochromatic
- c. C heterocyclic
- d. D aromatic

20. The amino acids having the  $-NH_2$  group on the left is called as .....

- a. A L - amino acid
- b. B D - amino acid
- c. C E - amino acid
- d. D G - amino acid

21. In RNA the pyrimidine Uracil is substituted for .....

- a. A cytosine
- b. B thymine
- c. C adanine
- d. D guanine

22. mRNA carries message from .....to.....

- a. A DNA to Mitochondria
- b. B DNA to tRNA
- c. C Ribosome to DNA
- d. D DNA to Ribosome

23. Two strands of DNA held together by.....

- a. A Hydrogen bond
- b. B Vander wall interaction
- c. C Ionic interaction
- d. D Covalent interaction

24. DNA strands run ..... in relation to each other.

- a. A Antiparallel
- b. B Parallel
- c. C Perpendicular
- d. D both a and b

25. Anticodon is present in.....

- a. A mRNA
- b. B tRNA
- c. C rRNA
- d. D ssRNA