

(6 pages)

Reg. No. : .....

Code No. : 7072

Sub. Code : KMBM 12/  
PMBM 12

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2018.

First Semester

Microbiology

BIOCHEMISTRY

(For those who joined in July 2016 and afterwards)

Time : Three hours

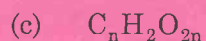
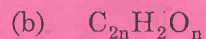
Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The general formula of monosaccharides



2. Blood group substances consist of

(a) Lactose (b) Maltose

(c) Fructose (d) Mucose

3. An example of saturated fatty acid is

(a) Palmitic acid (b) Oleic acid

(c) Linoleic acid (d) Erucic acid

4. Essential fatty acid

(a) Linoleic acid

(b) Linolenic acid

(c) Arachidonic acid

(d) All these

5. Sulphur containing amino acid is

(a) Methionine (b) Leucine

(c) Valine (d) Asparagine

6. The functions of plasma albumin are

(a) Osmosis (b) Transport

(c) Immunity (d) Both (a) and (b)

7. A nucleoside consists of
- (a) Nitrogenous base
  - (b) Purine or pyrimidine base + sugar
  - (c) Purine or pyrimidine base + phosphorous
  - (d) Purine + pyrimidine base + sugar + phosphorous

8. Uracil and ribose form
- (a) Uridine                      (b) Cytidine
  - (c) Guanosine                (d) Adenosine

9. The normal pH of the blood is
- (a) 7.0                              (b) 7.1
  - (c) 7.2                              (d) 7.4

10. Diabetes insipidus results from
- (a) Decreased insulin secretion
  - (b) Decreased ADH secretion
  - (c) Decreased aldosterone secretion
  - (d) Unresponsiveness of osmoreceptors

PART B — (5 × 5 = 25 marks)

Answer ALL questions either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Write a detail note on monosaccharide.  
Or  
(b) Write a detail note on biological importance on sugars.
12. (a) Write about components of lipids.  
Or  
(b) Write short note on lipoproteins.
13. (a) Write about co enzymes and iso enzymes.  
Or  
(b) Write about mechanism of enzyme action.
14. (a) Write short note on DNA.  
Or  
(b) What are tautomeric forms?
15. (a) Write about Autoanalysis in clinical chemistry.  
Or  
(b) Write a short note on CSF.

PART C — (5 × 8 = 40 marks)

Answer ALL questions either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write briefly about carbohydrate

Or

- (b) Write about structural polysaccharides with examples.

17. (a) Write detail about classification of lipids.

Or

- (b) Write about types of fatty acids.

18. (a) Write about physical and chemical properties of amino acid.

Or

- (b) Write about Michaelis-menton hypothesis.

19. (a) Write about the structure and functions of nucleic acids.

Or

- (b) Write a brief history on nucleotides.

20. (a) Write about some of the important significance of laboratory tests with example.

Or

- (b) Write about anticoagulants, hemolysis and preservation of blood specimens.