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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018

(Fourth Semester)

Branch - NUTRITION, FOOD SERVICE MANAGEMENT AND DIETETICS

BIOCHEMISTRY

Time : Three Hours

Maximum: 75 Marks

SECTION-A (20 Marks)

Answer ALL questions ALL questions carry EQUAL marks $(10 \times 2 = 20)$

- 1 What are heterpolys acharides?
- 2 Write the prime function of glycogen.
- 3 What is phrynoderma?
- 4 Define oxidative phosphorglatior.
- 5 Mention any two transcript proteins.
- 6 How urea cycle is regulated?
- 7 List the sources of nucleic acids.
- 8 What is the normal concentration of Hemoglobin in blood in male & female?
- 9 Give any two examples metallo enzeymes
- 10 . State the two phases of chromatography.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks $(5 \times 5 = 25)$

11 a Write the importance of NADPH in HMP shunt.

OR

- b Give the reducing properties of monosaccharides.
- 12 a Write an energetics of palmitic acid oxidation.

OR

b What are free fatty acids? Write its fate.

13 a Explain general structure of aminoacids.

OR

b Discuss on non oxidative deamination.

14 a What are the major bases in nuclic acids?

OR

- b Brief on ATP^ADP cycle.
- 15 a How do you determine k_m value of an enzyme?

OR

b Write the techniques of paper chromatography.

SECTION - C (30 Marks!

Answer any **THREE** Questions

ALL Questions Carry EQUAL Marks $(3 \times 10 = 30)$

- 16 Enumerate glycogenolgsis with neat flow chart.
- 17 How cholesterol is systhesised in human system?
- 18 Summarize protein biosynthesis.
- 19 Give an account on catabolism of hemoglobin.

20 Write the rnle of cxlntathinne in rrmiurratinn