PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2017 I' CV "' ' 1

(Fifth Semester)

Branch- **BIOCHEMISTRY**

MET ABOLISM-II

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions ALL questions carry EQUAL marks

 $(10 \times 2 = 20)$

- 1 Name the end products of the p oxidation of odd and even number of 'C' atom containing fatty acids.
- 2 Write the enzymes of FAScomplex.
- 3, Give the role of phospholipase A2.
- 4 What is suicide enzyme?
- 5 Name' the thyroid hormones produed from tyrosine.
- 6 Define : Glycinuria.
- 7 Write the names of any 2 inhibitors of purine synthesis.
- 8 Define : Gout.
- 9 Define : conjugation.
- 10 What is methylation?

SECTION - B (25 Marks)

Answer ALL Questions

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

11 a Explain FAS complex with neat diagram.

OR

b Explain : a - oxidation.

12 a Write about the catabolism of Gangliosides.

OR

b How bile acids are formed?

13 a Explain the reactions of non-oxidative deamination.

OR

b Explain the reactions of transamination.

14 a Give the salvage pathway of purine biosynthesis.

OR

b Give the salvage pathway of pyrimidine biosynthesis.

15 a Explain the role of cyt P $_{450}$ in xenobiotics metabolism.

OR

b How carnitine produced?

SECTION - C (30 Marks)

Answer any **THREE** Questions **ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Write the reactions of p oxidation and give brief notes.
- 17 Give the metabolism of Eicosanoids with diagram.
- 18 Explain the pathway and energetics of urea cycle.
- 19 Explain pyrimidine biosynthesis.
- 20 How glutathione and creatine are produced?

END.