

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

BSc DEGREE EXAMINATION MAY 2017

(Sixth Semester)

I[^]ScviS/V / > 4 **Bc.O*?A**

Branch- **BIOCHEMISTRY**

CORE ELECTIVE - n CLINTCAL. BIOCHEMISTRY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks V

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 2 = 20)

- 1 What is pentosuria? •
- 2 Write a note on fructosuria.
- 3 Discuss on Niemann - Picks disease.
- 4 Explain the classification of hyperlipo proteinemias. .
- 5 Discuss on the classification of PKU.
- 6 Write a note on Fanconi's syndrome.
- 7 Discuss in detail on criggler - Najjai syndrome.
- 8 Describe the clinical significance of Lesch-Nyhan syndrome.
- 9 Define Addison's disease. !
- 10 Explain any two screening tests for thyroid hormones.

SECTION - B (25 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Write short notes on Galactosemia.
OR
b Outline the enzymes deficient in von Gierkey disease.
- 12 a Bring out the cause, abnormalities of Tay - Sach's disease.
OR
b Write note on Artherosclerosis.
- 13 a Explain the aetiology, symptoms and complications of albinism.
OR
b Write detailed account on (i) Hartnup disease (ii) Maple syrup disease.
- 14 a Bring out the causes and abnormalities of Gout.
OR *
b Explain the abnormalities of Gilbert's disease.
- 15 a List out the importance of thyroid functions tests. ,
OR
b Explain the abnormalities of adrenal cortex. v

SECTION ■ C (30 Marks)

Answer any **THREE** Questions

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

- 16 Elaborate in detail on causes, pathophysiology and treatment of diabetes.
- 17 Explain the abnormalities of fatty liver.
- 18 How do serum enzymes are important to asses the normal liver function?
Explain.
- 19 Describe the various disorders of pyrimidine metabolism.
- 20 Discuss on: (i) Cushing syndrome (ii) Addison's disease.