

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2019
(Third Semester)

Branch - **NUTRITION, FOOD SERVICES MANAGEMENT & DIETETICS**

HUMAN PHYSIOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10x2 = 20)

- 1 Define erythropoiesis.
- 2 List the functions of mitochondria and ribosome.
- 3 Write the role of mitral valve.
- 4 Define inspiratory reserve volume.
- 5 Give an account on salivary glands.
- 6 Write the functions of cerebellum.
- 7 What is GFR?
- 8 What is colour blindness?
- 9 Write the role of calcitonin.
- 10 List the changes in graffian follicle during menstruation.

SECTION - B (25 Marks)

Answer **ALL** Questions

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

- 11 a Explain the structure of cell and functions of cell organelles in brief.
OR
b Write a note on blood volume and functions of tissue fluids.
- 12 a Explain the anatomy of heart.
OR
b Give an account on cardiac cycle & ECG.
- 13 a Brief the anatomy and functions of linear and pancreas.
OR
b Explain the mechanism of urine formation.
- 14 a Explain the structure & function of neuron.
OR
b Explain the anatomy of ear.
- 15 a Write on the anatomy and functions of thyroid and parathyroid glands in detail.
OR
b Explain menstrual cycle.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Discuss (a) Composition and functions of blood (b) Functions of connective and muscle tissues.
- 17 Describe the structure of respiratory tract and mechanism of respiration.
- 18 Elaborate the structure of kidney and Mephron.
- 19 Explain the physiology of hearing, smell and taste.