

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(First Semester)

Branch – **BIOCHEMISTRY**

GENERAL BIOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks

(5 x 1 = 5)

1. Where is *Entamoeba histolytica* most commonly found?
a) Large intestine b) Small intestine
c) Liver d) Pancreas
2. Name the chromosomes found in the salivary gland of *Drosophila*.
a) Polytene b) Lampbrush
c) Supernumerary d) B-Chromosomes
3. Which of the following blood group is referred as a universal recipient?
a) A group b) B group c) AB group d) O group
4. What chromosome does sickle cell disease affect?
a) Chromosome 12 b) Chromosome 11
c) Chromosome 2 d) Chromosome 21
5. Identify the organisms which are present in the upper part of an aquatic ecosystem.
a) Nekton b) Plankton c) Benthos d) Neuston

SECTION - B (15 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks

(5 x 3 = 15)

- 6 a. Illustrate the morphological structure of *Taenia solium*.
(or)
b. Describe the digestive system of shark.
- 7 a. Explain in detail about Klinefelter's syndrome.
(or)
b. Give a brief account on Down's syndrome.
- 8 a. Narrate the pattern of inheritance of colour blindness.
(or)
b. Discuss about ABO blood groups in man.
- 9 a. Briefly explain about inbreeding and its merits.
(or)
b. Comment on sickle cell anemia.

Cont...

- 10 a. Describe about pond ecosystem.
(or)
b. List out the various factors influence the deforestation.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a. Discuss in detail about life history and pathogenecity of Entamoeba histolytica.
(or)
b. Illustrate the digestive system and its associated glands of cockroach.
- 12 a. Elucidate the structure and types of chromosomes.
(or)
b. Explain about linkage and factors affecting linkage.
- 13 a. Describe the sex linked inheritance pattern of Hemophilia in man.
(or)
b. What is extra chromosomal inheritance and explain with suitable examples.
- 14 a. Define inborn errors of metabolism and explain with suitable examples.
(or)
b. Distinguish between eugenics and euthenics.
- 15 a. Elucidate the insitu and exsitu wild life conservation method.
(or)
b. Discuss in detail about air pollution and its sources.

Z-Z-Z END