

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

**BSc DEGREE EXAMINATION MAY 2023
(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 Taeniasis is a type of infectious disease caused by

(i) Fungi	(ii) Bacteria
(iii) Parasite	(iv) Virus
- 2 Down syndrome is caused due to
 - (i) bacterial infection
 - (ii) a chromosomal abnormality
 - (iii) Viral infection
 - (iv) lack of oxygen supply to the brain during birth
- 3 In the ABO system, blood group 'O' is characterized by the
 - (i) presence of antigen O
 - (ii) presence of both antigen A and antigen B
 - (iii) absence of both antigen A and antigen B
 - (iv) presence of antigen A and absence of antigen B
- 4 This condition is essential for a population to be in the Hardy-Weinberg equilibrium

(i) random mating	(ii) no mutations
(iii) large population	(iv) all of these
- 5 Red data book provides data on

(i) Endangered plants and animals	(ii) Red flowered plant
(iii) Red coloured fishes	(iv) List of animals and plants

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Explain the life cycle of *Taenia solium*.
OR
- b Brief account on *Entamoeba histolytica*.
- 7 a Explain about Turner's syndrome.
OR
- b Comment on Barr-body.
- 8 a Explain ABO blood grouping.
OR
- b Write about color blindness in man.
- 9 a Comment on Euthenics.
OR
- b Explain inbreeding with examples.

Cont...

10 a State the national parks in India.

OR

b Explain about pond ecosystem.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11 a Describe the digestive system of Cockroach with neat labelled diagram.

OR

b Explain the reproductive system of shark with neat labelled diagram.

12 a Discuss about the chromosomal aberrations.

OR

b Explain Klinefelter's syndrome.

13 a Describe about skin color in man.

OR

b Enumerate the extra-chromosomal inheritance with suitable example.

14 a Discuss inborn-errors metabolism.

OR

b Describe Hardy-Weinberg law.

15 a Describe about air pollution with suitable example.

OR

b Explain the conservation of natural resources in India.

Z-Z-Z

END