

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2019
(First Semester)

Branch - **BIOCHEMISTRY**

GENERAL BIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 1 = 10)

- 1 Identify the Zoological name of pork tapeworm.
(i) Fasciola hepatica (ii) Entamoeba histolytica
(iii) Tania solium (iv) Lineus longissimus
- 2 Mention the common name of Scoliodon sorrakowah is
(i) shark (ii) rabbit
(iii) frog (iv) peacock
- 3 Choose the disorder is characterized by a typical mongoloid facial appearance, webbed neck, a flat nasal bridge
(i) Turner's syndrome (ii) Klinefelter's syndrome
(iii) Down's syndrome (iv) Edward's syndrome
- 4 Crossing over brings about
(i) Cytoplasmic reorganization (ii) Recombination of genes
(iii) Complete linkage (iv) No significant change
- 5 Which of the following determinant confirm the O blood group?
(i) Antigen - A (ii) Antigen - B
(iii) Antibody - i (iv) Antibody - i and ii
- 6 MN blood group was first discovered by
(i) Landsteiner and Levine (ii) Von Decastello
(iii) Bernstein (iv) Sturli
- 7 The symptomatic treatment of genetic diseases of human beings is called
(i) Euphenics (ii) Euthenics
(iii) Eugenics (iv) Eutrophication
- 8 Sixth amino acid of the a-chain of sickle-cell haemoglobin was
(i) Glutamic acid (ii) Valine
(iii) Glycine (iv) Alanine
- 9 Mention the main cause of Eutrophication is
(i) Fertilizer or manure runoff from farm land
(ii) Proper disposal of sewage
(iii) Proper disposal chemical and industrial waste
(iv) Proper disposal of kitchen waste
- 10 Removal of large objects and suspended un-dissolved solids of raw sewage and converts them into a biologically inactive and aesthetically inoffensive state of water is called
(i) Tertiary treatment (ii) Primary treatment
(iii) Secondary treatment (iv) Quaternary treatment

Cont...

SECTION - B (35 Marks)

Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 7 = 35)

Describe the external morphology of *Taenia Solium*.

OR

Elucidate structure of female reproductive system of Cockroach.

Summarize account on structure of Eukaryotic chromosomes and chromatin structure.

OR

Categorize the Klinefelter's syndrome and Turner's syndrome.

Examine hemophilia in man.

OR

Analyze extra chromosomal inheritance with one example.

Highlight the different measures of negative eugenics.

OR

Discuss the term sickle cell anemia.

Categorize the list of various effects of air pollution.

OR

Trace out a pond is an ideal ecosystem.

SECTION - C (30 Marks)

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

Elucidate the external morphology of *Entamoeba histolytica* with diagram.

Describe about general features, types and significances of crossing over.

Discuss ABO blood groups inheritance in man.

State amino acid metabolic errors in man.

Evaluate possible methods of wide life conservation.

Z-Z-Z

END