PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018

(First Semester)

Branch - **BIOCHEMISTRY**

GENERAL BIOLOGY

Time:	: Three Hours	Maximum: 75 Marks
SECTION-A (10 Marks) Answer ALL questions ALL questions carry EQUAL marks (10x1 = 10)		
1	•	man intestinal tissues and causes amoebic (ii) Entemoeba histolytica (iv) Lineus longissimus
2	Mention the common name of per (i) Honey bee	•
3		syndrome (ii) 45, XX (iv) 45, XXY
4	chromosomes. (i) 4	present in a normal female with XX (ii) 2 (iv) 3
5	If a man with blodd group AB is not their children will be the following (i) A, B, AB (iii) A, AB, 0	narried to a woman with blood group AB, g blood group. (ii) A, B, 0 (iv) A, B
6	Who discovered the Rh factor? (i) Landsteiner and Wiener (iii) Bernstein	(ii) Von Decastello (iv) Sturli
7	The term inborn errors of metabol (i) Darwin (iii) A. E. Garrod	ism was first coined by (ii) Francis Galton (iv) Mendel
8	 Identify the best practice of the positive euthenics among the following: (i) The improvement of already existing human beings can be achieved by improving the environmental conditions (ii) Undesirable hereditary traits must note be allowed to migrate from one place to another (iii) The sterilization method is based on surgical operation of sperm duct or vas deferens in males and oviducts or fallopian tubes in females (iv) Sexual separation of the defective persons may have various sex-linked diseases 	
9	Nicotine produced by smoking cig (i) Air pollution	garettes which causes (ii) Water pollution

(iv) Industrial pollution

(iii) Land pollution

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Cont...

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry **EQUAL** Marks $(5 \times 7 = 35)$

11 a Describe the morphology of Entamoeba Histolytica.

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- b Explain the structure of male reproductive system of cockroach.
- 12 a Summarize account on heterochromatin and euchromatin.

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- b Compare and comtrast the Klinefelter's syndrome and Down's syndrome.
- 13 a Analyze the term colour blindness in man.

OR

- b Bring out your idea about skin colour in Man.
- 14 a State any two amino acid metabolic errors in man.

OR

- b Narrate the term sickle cell anemia.
- 15 a Pond is an ideal ecosystem How?

OR

b Outline various effects of water pollution.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks $(3 \times 10 = 30)$

- 16 Elucidate the external morphology of shark with diagram.
- Discuss about chromosomal aberrations with example.
- Examine ABO blood groups inheritance in man.
- 19 Trace out different measures of positive eugenics.
- 20 Enumerate possible methods of wild life conservation.

Z-Z-Z END