

F.Y.B.SC. SEM – I (2014 COURSE) : SUMMER - 2018
SUBJECT: ZOOLOGY: CELL BIOLOGY AND GENETICS (Z-12)

Day : **Saturday** **S-2018-0688**
Date : **28/04/2018**

Time : **12.00 NOON TO 02.00 PM**
Max. Marks : 40

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Draw neat labeled diagrams **WHEREVER** necessary.
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Q.1 Attempt any **TWO** of the following: **(10)**

- a) Describe ultrastructure of endoplasmic reticulum.
- b) Give an account on law of dominance with suitable example.
- c) Describe the structure of a generalized chromosome.

Q.2 Attempt any **TWO** of the following: **(10)**

- a) Describe the ultrastructure of mitochondria in brief.
- b) Describe structure and functions of golgi complex.
- c) Give an account of genetic counseling.

Q.3 Attempt any **TWO** of the following: **(10)**

- a) Give detailed account of blood groups in man. Add a note on its inheritance.
- b) Describe Down's syndrome.
- c) Describe ultrastructure of plasma membrane.

Q.4 Attempt any **FIVE** of the following: **(10)**

- a) Write on incomplete dominance.
- b) What is eugenics?
- c) Write on acrocentric chromosome.
- d) What is genotype?
- e) Write functions of nucleus.
- f) Write functions of lysosomes.
- g) Describe microtubules.

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