

F.Y.B.SC. SEM – I (2014 Course) : WINTER - 2018
SUBJECT : ZOOLOGY : CELL BIOLOGY & GENETICS (Z-12)

Day : Thursday
Date : 25/10/2018

W-2018-0781

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) What is endoplasmic reticulum? Describe different types of endoplasmic reticulum.
- b) Describe ultrastructure of nucleus.
- c) What is eugenics? Explain positive and negative eugenics.

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

- a) Describe ultrastructure of eukaryotic cell.
- b) Explain law of independent assortment with suitable example.
- c) What are multiple alleles? Explain it with suitable example.

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

- a) Give an account of chromosome with reference to ultrastructure.
- b) Describe Down's syndrome.
- c) Describe ultrastructure of mitochondria in brief.

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

- a) Write functions of golgi complex.
- b) Write on microtubules.
- c) Give functions of lysosomes.
- d) Give any four functions of plasma membrane.
- e) Explain incomplete dominance.
- f) Define duplication.
- g) Define genotype and phenotype.

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