Reg. No. : ....

Name : ....

II Semester M.Sc. Degree (CBSS-Reg./Suppl./Imp.) Examination, April 2020
(2014 Admission Onwards)
BOTANY
BOT2C 07 : Genetics, Evolution and Biometrics

Time : 3 Hours   Max. Marks : 60

Instruction : *Draw drawings* **wherever** *necessary.*

I. Answer **any two** of the following :   **(2×8=16)**

   1) Give an account of Enzymology of DNA replication.

                    OR

   2) Explain regulation of gene expression in prokaryotes.

   3) Give an account of designing of experiments.

                    OR

   4) Explain the principles of evolution.

II. Answer **any two** of the following :   **(2×6=12)**

   5) Systems of mating.

   6) Inherited diseases and defects.

   7) Role of chromatin in gene expression.

III. Answer **any six** of the following :   **(6×3=18)**

   8) Structure and functions of RNA.

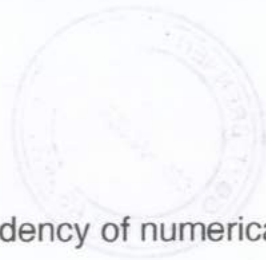   9) DNA damage and repair mechanisms.

   10) Three point test cross analysis.

   11) Give an account of polygenic inheritance.

   12) Translation.

P.T.O.

13) Measures of central tendency of numerical data.

14) Standard deviation.

15) Mechanism of evolution.

IV. Answer **any seven** of the following : (7×2=14)

16) Molecular divergence.

17) Origin of species.

18) Probability distribution.

19) Correlation.

20) Eugenics.

21) Somatic mutants.

22) Methylation.

23) Genetic code.

24) Linkage mapping.

25) Genetic drift.

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