

Extra

V.P.and R.P.T.P.Science College  
Internal Test-2017  
5<sup>th</sup> – Semester  
BOTANY- US05CBOT05  
Cytology and Genetics



Date-7/10/2017  
Saturday

Time-11.00 a.m.-12.30 p.m.  
Marks-25

Q-1 Multiple Choice Questions. (03)

(i) Nucleolus was first discovered by:

(a) Fontana (b) Robert Brown (c) Waldyer (d) Watson

(ii) A large percentage of total cellular RNA is present in:

(a) Chromosome (b) Ribosome (c) E.R. (d) Mitochondria

(iii) The process by which the cell copies its own DNA is known as:

(a) Replication (b) Transcription (c) Translation (d) none of these

Q-2 Answer the following (any two). (04)

(i) Name the types of ribosomes.

(ii) Distinguish between centromere and chromomere.

(iii) What is central dogma of molecular biology.

Q-3 Write an account of special type of chromosome. (06)

OR

Q-3 Describe the structure of plasma-membrane. (06)

Q-4 Write the functions of: (06)

(a) Chloroplast (b) Mitochondria

OR

Q-4 Describe the ultra structure and functions of Golgibody. (06)

Q-5 Describe the process of transcription. (06)

OR

Q-5 Write a note on: Enzymes involve in DNA replication. (06)