



V.P.&R.P.T.P.SCIENCE COLLEGE
5th Semester
BOTANY-US05CBOT05
(Cytology and Genetics)

Date-09/10/19
Wednesday

Time:11.00 a.m.- 12.15 p.m.
Marks-25

Q-1 Multiple Choice Questions.

(05)

(i)What corresponds to a single genetic locus?

- (a)centromere (b)chromonema (c)chromatin (d)chromomere

(ii)Chlorophyll is present in:

- (a)membrane (b)ribosome (c)stroma (d)grana

(iii)Which of the following organelles contains its own DNA?

- (a)chloroplast (b)mitochondria (c)nucleus (d)all of the above

(iv)Which of the following is not a membrane bound cell-organelle?

- (a)Lysosome (b)Chloroplast (c)Mitochondria (d)Ribosome

(v) Bar-eye in Drosophila is an example of:

- (a)inversion (b)deletion (c)frame-shift mutation (d)duplication

Q-2 Define:Chromosome. Write an account of special types of chromosomes.

(05)

OR

Q-2 Describe the ultra structure and functions of nucleus.

(05)

Q-3 Write the ultra structure of: Ribosome

(05)

OR

Q-3 Describe the ultra structure and functions of mitochondria.

(05)

Q-4 Describe following: Cytoplasmic influence in snail

(05)

OR

Plastid inheritance in 4 o'clock plant

(05)

Q-5 Describe the process of transcription.

(05)

OR

Q-5 Describe the structure and semi conservative method of DNA-replication.

(05)

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