

V.P. & R.P.T.P. SCIENCE COLLEGE
II-SEMESTER, INTERNAL EXAM-2019



BIOLOGY, US02CBIO21

9/3/2019, SATURDAY

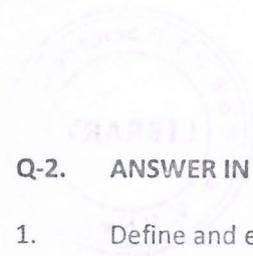
TIME: 12:30 TO 2:30pm

TOTAL MARKS: 50

Q-1. MULTIPLE CHOICE QUESTIONS.

(8)

- Mendel proposed which of the following term for hereditary units?
(a) Factor (b) Genome (c) Genetic particle (d) None of these
- Which karyotype represents trisomy?
(a) $2n+1$ (b) $2n-2$ (c) $2n-1$ (d) $2n+2$
- Cellular totipotency is the property of _____.
(a) plants (b) animals (c) bacteria (d) all of these
- The transgenic animals are those who have _____.
(a) Foreign DNA in some of their cells (b) Foreign DNA in all of their cells
(c) Foreign RNA in all their cells (d) Both A & C
- Zig-zag development of inflorescence axis is an example of
(a) Helicoid cyme (b) Scorpioid (c) Umbel (d) Compound umbel
- Which of the following structure is not associated with gynoecium?
(a) Ovary (b) Style (c) Stigma (d) Filament
- Sea horse exhibits parental care by
(a) Nest building (b) Brood pouches (c) Viviparity (d) Mermaid purse
- Down feathers are present in
(a) Male bird (b) Female bird (c) Adult bird (d) Newly hatched bird



Q-2. ANSWER IN SHORT (ANY FIVE).

(10)

1. Define and explain Mendel's law of dominance.
2. Differentiate between the homozygous and heterozygous.
3. Explain the growth hormone.
4. Which are the mineral nutrients in Nutrient media?
5. Differentiate between bract and stipule.
6. Define: Leaf and Flower.
7. Draw a neat and labeled diagram of a typical quill feather.
8. Name the four poisonous snakes.

- Q-3. (a) Explain the 9:3:4 ratio. (4)
- (b) Write a note on Turner's syndrome. (4)

OR

- Q-3. Write an essay on blood groups in Man. (8)

- Q-4. (a) Discuss the significance of transgenic plants. (4)
- (b) Discuss micropropagation technique and its applications. (4)

OR

- Q-4. Describe the general laboratory setup for tissue culture. (8)

- Q-5. (a) Write the economic importance of Karela & Tobacco. (4)
- (b) Give an account of Racemose inflorescence. (4)

OR

- Q-5. Describe the general characters of family Solanaceae with suitable diagrams. (8)

- Q-6. (a) Explain the Anadromous migration in fishes with example. (4)
- (b) Describe the types of scales in fishes. (4)

OR

- Q-6. Describe the parental care in Amphibians by nest. (8)