

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)

1. Beta pleated sheets are present in which structure of proteins?
A) Tertiary
B) Primary
C) Secondary
D) Quaternary.
2. The combination of a pentose sugar with a base forms a compound known as -----
A) Nucleotide
B) Nucleoside
C) Phosphoric Acid
D) Nucleic Acid
3. Which type of evolution refers to change within population?
A) Macroevolution
B) Organic Evolution
C) Microevolution
D) None of these
4. Darwin's theory, as presented in "The Origin of Species", mainly concerned
A) How adaptations evolve
B) The origin of life
C) How new species arise
D) The genetics of evolution
5. Selection acts directly on
A) The entire gene pool
B) Phenotype
C) The entire genome
D) Genotype
6. Mannose and Galactose are the examples of?
A) Trioses
B) Tetroses
C) Hexoses
D) Pentoses
7. The metabolic wastes that are ingested into the body and must be removed are -----
A) Pesticides
B) Drugs
C) Food Additives
D) All of these
8. Brain is protected by
A) Skull
B) Orbits
C) Cranium
D) All of these
9. ----- are three main parts of the gynoecium in a flower?
A) Filament, stigma, ovary
B) Stigma, style, ovary
C) Anther, connective, filament
D) None of these
10. Separation of homologous chromosomes occurs during -----
A) Prophase
B) Metaphase
C) Anaphase
D) Telophase



UNIVERSITY OF THE PUNJAB

Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No.

PAPER: Biology-II

Course Code: BIO-211/21116 Part – II

MAX. TIME: 2 Hrs. 45 Min.

MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. No. 2: Give brief answers of following questions. (10 x 2)

1. Define Population Genetics.
2. What is the difference between Deforestation and Afforestation?
3. List different types of Ecosystems.
4. Differentiate between Symbiosis, Parasitism and Mutualism.
5. What is difference between rough and smooth endoplasmic reticulum?
6. Distinguish between Osteocytes and Osteoblasts.
7. What are the functions of parathyroid gland?
8. What are the commercial applications of auxins?
9. How is a seed formed?
10. What are amphibious plants? Write down their main characteristics.

Q. No. 3: Define and draw Cell cycle. (05)

Q. No. 4: Write a note on Succession with its types and stages. (5)

Q. No. 5: Discuss Excretion in Plants (5)

Q. No. 6: Describe in Detail Mendel's Law of Segregation and Law of Independent Assortment with the help of different crosses. (10)

Q. No. 7: Give a comparison of mitosis and meiosis. Also describe their importance. (5)