



Year: 2018-19

School of Technology

Program: F Y B-Tech

Course Code: FYT 123

Course title: Biology for Engineers Semester: II

Day and Date:

End Semester Exam (ESE)

Time: 3 hrs.

Max Marks: 100

Section A: 20marks

10:30 to 1:30 pm

Instructions for Students:

1) All questions are compulsory.

2) Write complete sentence with correct option for MCQs.

CO'S Marks Blooms
Level

SECTION A

Q1). Answer the following.

(20)

A) Multiple choice questions.

(10)

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|--|-----|-----|----|
| 1. The structural and functional unit of life is called as _____ | CO1 | (1) | L1 |
| a. Mitochondria | | | |
| b. Golgi bodies | | | |
| c. DNA | | | |
| d. Cell | | | |
| 2. The binding of one cell to another is brought by _____ | CO2 | (1) | L1 |
| a. Cell binding | | | |
| b. Cell adhesion | | | |
| c. Cell junction | | | |
| d. Cell bonding | | | |
| 3. Nucleotides are a component of _____ | CO1 | (1) | L1 |
| a. Neuron | | | |
| b. Nephron | | | |
| c. DNA | | | |
| d. Protein | | | |
| 4. _____ is not a greenhouse gas | CO1 | (1) | L1 |
| a. Carbon-dioxide | | | |
| b. Nitrogen | | | |
| c. Methane | | | |
| d. CFC's | | | |
| 5. Based on sources stem cells are classified into _____ and _____ | CO2 | (1) | L2 |
| a. Pluripotent and Totipotent | | | |
| b. Endodermic and ectodermic | | | |
| c. Embryonic and Adult | | | |
| d. Unipotent and Multipotent | | | |
| 6. Which of the following is an abiotic factor? | CO3 | (1) | L1 |
| a. Grass | | | |
| b. Water | | | |
| c. Sea weed | | | |
| d. Lichen | | | |

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|--|-------------------------------------|-----|-----|----|
| 7. The most common type of neurotransmitter is the _____
a. GABA
c. Stercobillin | b. Serotonin
d. Acetylcholine | CO4 | (1) | L1 |
| 8. Nucleus was first discovered by _____
a. Robert Hooke
c. Robert Brown | b. Robert Koch
d. Robert Langdon | CO2 | (1) | L1 |
| 9. Transcription, translation and replication together are called as _____
a. Information central
c. Evolutionary traits | b. Inheritance
d. Central dogma | CO2 | (1) | L1 |
| 10. Dopamine is a _____ type of neurotransmitter.
a. Inhibitory
c. Excitatory | b. Synthetic
d. Regulatory | CO4 | (1) | L2 |

B) State whether the statement is True or False. (10)

- | | | | |
|---|-----|-----|----|
| 1. The human brain carries actual electric charges through itself.
(True/False) | CO4 | (1) | L2 |
| 2. Lysosomes are also called as the powerhouse of the cell. (True/False) | CO1 | (1) | L1 |
| 3. Scientists Watson and Crick gave the 3-D helical model for DNA.
(True/False) | CO2 | (1) | L1 |
| 4. Flagella are also called as the bacterial motor. (True/False) | CO3 | (1) | L1 |
| 5. Current human population of human beings on earth is over 7 million.
(True/False) | CO1 | (1) | L1 |
| 6. The study of human development is called as Evolutionary genetics.
(True/False) | CO4 | (1) | L1 |
| 7. Proteins are functional only in their tertiary conformation. (True/False) | CO3 | (1) | L2 |
| 8. Mendel put forth the theory of molecular basis of inheritance. | CO1 | (1) | L1 |
| 9. The assembly of electron microscopes is placed in a vacuum chamber.
(True/False) | CO1 | (1) | L1 |
| 10). Chitin is an extracellular matrix protein. (True/False) | CO1 | (1) | L1 |

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