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BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(MLT)-2022

Course Name – Mycology & Virology

Course Code - BMLTC602

(Semester VI)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) What is the name for the protein shell of a virus that encloses the genetic material?
 - a) Virion
 - b) Capsid
 - c) Peplomers
 - d) Capsomers
- (ii) Which of the following phase determines the specificity of the virus?
 - a) Uncoating
 - b) Release
 - c) Attachment
 - d) Penetration
- (iii) Which of the following molecule is used as a receptor by HIV?
 - a) CD4
 - b) CD25
 - c) ICAM-1
 - d) CCR5
- (iv) Yellow fever virus can be attenuated by serial passage on cultures of _____ (Select correct option to fill the gap).
 - a) embryonated eggs
 - b) tissue
 - c) chick embryo tissue
 - d) pig embryo tissue
- (v) Viruses require _____ to grow (Select correct option to fill the gap).
 - a) Animals
 - b) Plants
 - c) living cells
 - d) bacteria
- (vi) All of the following laboratory diagnosis is positive for early stage HIV infection, EXCEPT? Choose the correct option
 - a) Blood test with CD4+ T-cell count of 350 cells/mm³ (normal range: 500-1600 cells/mm³)
 - b) Complete Blood count with chronic anemia
 - c) Confirmatory Western blot test positive for HIV-1 antibodies
 - d) Positive HIV enzyme immunoassay (EIA) test
- (vii) What is the term for the main vegetative structure of a fungal colony?
 - a) Spore
 - b) Mycelium
 - c) Conidium
 - d) Ascus

You want to isolate and analyze pseudo mycelium, make an experimental setup to analyze (5)
the pseudo mycelium along with possible colony characteristics

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