

Seat No.: _____

Enrolment No. _____

PARUL UNIVERSITY
DEPARTMENT OF PARAMEDICAL AND HEALTH SCIENCES
B.Sc. Med. Sci. March- 2023 Examination.

Year: 3

Date: 28/03/2023

Subject Code: 19106305

Time: 10:00am to 10:45am

Subject Name: MLT MOD-2 Applied Microbiology

Total Marks: 30

Instructions:

1. Attempt all questions from each section
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.

Q.1: Definition (any 5 out of 6) (Each 1 Mark) 05 marks

- (i) Give the definition of Adaptive immunity.
- (ii) Give the definition of Agglutination.
- (iii) What is cellophane tape mount.
- (iv) What is Histoplasmosis.
- (v) What is the principal vector of Haemorrhagic fever group.
- (vi) What type of transmission cycle of chikungunya virus.

Q.2: Short question (any 5 out of 6) (Each 2 Mark) 10 marks

- (i) What is adjuvant give one example of it.
- (ii) What is hepten molecule and draw the suitable diagram of it.
- (iii) What is the original form of vaccine and its route of administration for dengue virus.
- (iv) Give the definition of prions and also mention one difference between virion and viroid.
- (v) What is germ tube test and draw the suitable diagram.
- (vi) What is BOD incubator and how much temperature is required for growth of fungus.

Q.3: Long question (any 3 out of 4) (Each 5 Mark) 15 marks

- (i) Describe the Lab diagnosis of subcutaneous mycoses.
- (ii) Write the mode of transmission and clinical classification of dengue virus.
- (iii) What is the immunochromatographic test and describe the principle of ICT with suitable diagram.
- (iv) What is the western blot technique describe the procedure and application of it.