Total No. of Pages: 2 BSC/Part-II/M.Bio(H)-V(Prac)

2019

Part - II

MICROBIOLOGY

(Honours)

Paper - V

(Practical)

Full Marks - 100

Time: 10 Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer all questions.

- Prepare a smear of the supplied bacterial culture sample and stained it properly for identification of capsule under light microscope. Draw the picture of your observation and comments on your result. 10
 [Work-4: observation-2; drawing-2; comments-2]
- 2. Enumerate the quantity of bacteria from the supplied water by pour plate method. Give the comments on your result. Write the procedure of the method. 20 [Procedure 3; Work 4; Result 8; Comments 4]
 - 3. Identify the bio-molecule through sequential test.

 Comments on your result.

 10

[Sequential test-5; confirmatory test-3; comment-2]

microscope. 4×2.5=10

[Character – 1; correct identification – 1.5]

5. Determine the optimum pH of the supplied amylase and graphically represent your results. Give

Identify the slides (A-D) of microbes focused under

4.

comments on your result. 10
[Work - 4; result and graphical resentation - 4; comments - 4]
6. Estimate the quantity of protein (w/v) in the supplied

sample by Lowry method. Write the principle of

- method. 10

 [Principle 2; work 3; calculation and result 5 (on the basis of % of error)]

 7. Calculate the standard error of mean from the
- Calculate the standard error of mean from the supplied data (Data should be give separately to each student).
 [Tabulation 3; calculation 4; result– 3]
- 8. Laboratory note book. 10
 9. Viva voce 10