

VPM's B. N. BANDODKAR COLLEGE OF SCIENCE, THANE
IV SEMESTER END EXAMINATION- MARCH - 2017

S.Y.B.Sc.
USMB- 401

Bot
micro

Duration: 2 hrs 30 min

Total Marks: 75

- N. B. 1) All questions are compulsory.
2) Figures to right indicate full marks.
3) Draw neat and labeled diagrams wherever necessary

Q.1 Answer the following (Any 2 of 4).

20M

- 1 Discuss innate immunity with respect to following points i)levels ii)factor affecting.
- 2 Elaborate on lymphocytes and their role in adaptive immune response.
- 3 Explain in detail about the various mechanical barriers of innate immunity.
- 4 Write a note on primary lymphoid organs.

Q.2 Answer the following (Any 2 of 4).

20M

- 1 Write a note on infectious disease cycle.
- 2 Elaborate on nosocomial infections.
- 3 Explain vector borne transmission of disease.
- 4 Write a note on emerging and reemerging infectious diseases.

Q.3 Answer the following (Any 2 of 4).

20M

- 1 Write a note on specimen collection.
- 2 Elaborate on identification of pathogens using microscopy.
- 3 Discuss Molecular methods for rapid identification of organism.
- 4 a. How would you culture anaerobic organisms?
b. With the help of flow sheet representation, explain Urine Culture.

Q.4 Answer the following.

15M

- a i What are C3 convertase in alternative and classical pathway?
OR
What is respiratory burst?

2M

P.T.O.

- ii What are interferons? OR 2M
What are PAMPs? Give their significance.
- iii Define phagocytosis OR 1M
What are endogenous pyrogens?
- b
- i Define 'disease' OR 1M
Define epidemiology
- ii What is morbidity rate? OR 2M
What is prodromal stage in course of an infection?
- iii Define antigenic shift? OR 2M
What is meant by propagated epidemic?
- c
- i What is a bacteriophage typing? OR 2M
Explain needle- aspiration.
- ii Name one selective medium used for Identification of enteric pathogen. OR 1M
What is a catheter? State its use.
- iii Name two respiratory pathogens? OR 2M
What is cytopathic effect?
