

S.Y. B.SC. (NURSING) (2007 COURSE) : WINTER- 2018

SUBJECT : MICROBIOLOGY

Day : Thursday

Time : —

Date : 04-10-2018

W-2018-4020

Max. Marks : 15

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Put a  tick mark in the appropriate box below the question number once only.
- 3) Use blue / black ball point pen only.
- 4) Each question carries **ONE** mark.
- 5) Section – I should be completed within **15** minutes.
- 6) Students will not be allotted marks if he/she overwrites, strikes or put on the cross once marked.

Seat No. \_\_\_\_\_

Total Marks Obtained. \_\_\_\_\_

Jr. Supervisor's Signature. \_\_\_\_\_

Examiner's Signature. \_\_\_\_\_

SECTION – I

M.C.Qs

1) \_\_\_\_\_ is an example of antibiotic acting on 50-S ribosome.

- a)  Streptomycin
- b)  Chlorphenicol
- c)  Penicillin
- d)  Rifampicin

2) Wasserman test is used in diagnosis of \_\_\_\_\_.

- a)  Typhoid
- b)  TB
- c)  Syphilis
- d)  Gonorrhoea

3) Father of microbiology is \_\_\_\_\_.

- a)  E Jenner
- b)  Lister
- c)  R Koch
- d)  L Pasteur

4) Sterilization ensures \_\_\_\_\_.

- a)  Destruction of vegetative cell only
- b)  Destruction of both vegetative cell and spore
- c)  Destruction of pathogenic bacteria only
- d)  Destruction of nonpathogenic bacteria only

P.T.O.

- 5) Peripheral blood smear is done for \_\_\_\_\_.
- a)  E-histolytica
  - b)  Tuberculosis
  - c)  Malaria
  - d)  Ascaris
- 6) Negative tuberculin test is found in all EXCEPT.
- a)  Military tuberculosis
  - b)  Measles
  - c)  Severe malnutrition
  - d)  Atypical mycobacterial infection
- 7) Impregnation method is used for demonstration of \_\_\_\_\_.
- a)  Flagella
  - b)  Cell wall
  - c)  Cytoplasmic membrane
  - d)  DNA
- 8) Viral mediated transmission of genetic material in bacteria is known as \_\_\_\_\_.
- a)  Transformation
  - b)  Transcription
  - c)  Transduction
  - d)  Conjugation
- 9) Which of the following types of media would not be used to culture aerobes?
- a)  Selective media
  - b)  Reducing media
  - c)  Enrichment media
  - d)  Differential media
- 10) Method of transmission of syphilis is \_\_\_\_\_.
- a)  Direct inoculation
  - b)  Contact
  - c)  Congenital
  - d)  Both 'b' and 'c'

- 11) Which of the following is the pathogen of Q fever?
- a)  Coxiella burnetii
  - b)  Rickettsia australis
  - c)  Bartonella Quintana
  - d)  Bartonella bacilliformis
- 12) Which of the following is INCORRECT about Mycobacterium?
- a)  It belongs to phylum Firmicutes.
  - b)  It is aerobic and nonmotile.
  - c)  It is acid fast Gram – positive.
  - d)  Cell wall is waxy and rich in mycolic acids.
- 13) Most common enterobacteria causing urinary tract infection is \_\_\_\_\_.
- a)  Klebsiella
  - b)  Salmonella
  - c)  Escherichia coli
  - d)  Shigella
- 14) About 80 – 90% of the fungal cell wall is made up of \_\_\_\_\_.
- a)  Cellulose
  - b)  Chitin
  - c)  Proteins
  - d)  Lipids
- 15) Passive immunity is obtained by injecting \_\_\_\_\_.
- a)  Antibiotics
  - b)  Antigen
  - c)  Antibodies
  - d)  Vaccines

S.Y.B.Sc (Nursing) 2007 Course : Winter-2018

SUBJECT : MICROBIOLOGY

Day : Thursday  
Date : 04/10/2018

Time : 10.00 A.M. TO 01.00 P.M.  
Max. Marks : 60

W-2018-4020

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.

**SECTION – II**

**Q.2** Write short notes on **ANY FOUR** of the following: [16]

- a) Paul Ehrlich
- b) Classification of immunity
- c) Methods of culture
- d) Chemical methods of sterilization
- e) Acid fast stain
- f) Morphology of bacteria

**Q.3** Classify disinfection. Name some common disinfectants. What are [14]  
characteristic features of an ideal disinfectant?

**OR**

Write a note on Biomedical waste and its management.

**SECTION – III**

**Q.4** Write short notes on **ANY FOUR** of the following: [16]

- a) Pseudomonas aeruginosa
- b) Morphology and cultural characteristics of Rickettsia
- c) Laboratory diagnosis of diphtheria
- d) Pathogenicity of Escherichia coli
- e) Principles of microbiology
- f) Laboratory diagnosis of enteric fever

**Q.5** Define hypersensitivity. Classify it and explain different types of [14]  
hypersensitivity.

**OR**

Classify Mycobacteria. Describe laboratory diagnosis of pulmonary tuberculosis. Add a note on RNTCP.

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