

F. Y. P. B. B. SC. (NURSING) : SUMMER - 2018

SUBJECT : MICROBIOLOGY

Day : Monday  
Date : 30/04/2018

S-2018-3896

Time : 10.00 AM TO 01.00 PM  
Max. Marks : 15

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Put a  $\sqrt{\quad}$  in the appropriate box.
- 3) Use **BLUE / BLACK** pen only.
- 4) Section one should be completed in **15** minutes.
- 5) Each question carried **ONE** mark.
- 6) Students will not be allotted marks if he/she overwrite strikes or puts white ink on the cross once marked.

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

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

Jr. Supervisor's signature: \_\_\_\_\_

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

SECTION - I

MCQs:

- Q. 1 Which of the following bacteria lack a cell wall?
- a)  Cyanobacteria
  - b)  Mycoplasmas
  - c)  Bdellovibrios
  - d)  Spirochetes
- Q. 2 The structure responsible for motility of bacteria is \_\_\_\_\_
- a)  Pili
  - b)  Sheath
  - c)  Flagella
  - d)  Capsules
- Q. 3 Transport medium for vibrio cholera can be \_\_\_\_\_
- a)  Venkatraman – Ramkrishnan medium
  - b)  Selenite f broth
  - c)  Tetrathionate broth
  - d)  Nutrient broth
- Q. 4 The organism which grow's best above 45<sup>0</sup> C are called \_\_\_\_\_
- a)  Psychrophilic
  - b)  Mesophilic
  - c)  Thermophilic
  - d)  None of these

P. T. O.

- Q. 5** J chain is present in \_\_\_\_\_
- a)  IgA
  - b)  IgM
  - c)  Both a and b
  - d)  IgE
- Q. 6** Eugenic growth on Lowenstein – Jensen medium is produced by \_\_\_\_\_
- a)  M. bovis
  - b)  M. tuberculosis
  - c)  Both a and b
  - d)  None of the above
- Q. 7** Who is regarded as the father of bacteriology \_\_\_\_\_
- a)  Leeuwen Hook
  - b)  Robert Hook
  - c)  Louis Pasteur
  - d)  Robert Koch
- Q. 8** Bacterial cell wall is made up of \_\_\_\_\_
- a)  Chitin
  - b)  Cellulose
  - c)  Dextran
  - d)  Peptidoglycan
- Q. 9** Hepatitis B is transmitted through \_\_\_\_\_
- a)  Blood and blood products
  - b)  Fecal oral routs
  - c)  Sexual intercourse
  - d)  a and c
- Q. 10** Which of the following is bullet shaped virus \_\_\_\_\_
- a)  Polio virus
  - b)  Influenza virus
  - c)  Rabies virus
  - d)  Measles virus

Q. 11 Toxins produced by fungi are called \_\_\_\_\_

- a)  Exotoxins
- b)  Mycotoxins
- c)  Neurotoxins
- d)  Enterotoxins

Q. 12 The 4-nucleated cyst of *E. histolytica* is called \_\_\_\_\_

- a)  Oocyst
- b)  Procyst
- c)  Metacyst
- d)  Hydatid cyst

Q. 13 Life cycle of plasmodium in mosquito \_\_\_\_\_

- a)  Schizogony
- b)  Plasmiogony
- c)  Sporogony
- d)  Both a and c

Q. 14 Barber's itch is a \_\_\_\_\_

- a)  Ringworm infection
- b)  Bacterial infection
- c)  Candidiasis
- d)  Protozoan infection

Q. 15 *T. trichura* is caused by \_\_\_\_\_

- a)  Hook worm
- b)  Whip worm
- c)  Tape worm
- d)  Stick worm

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Time : 10:00 AM TO 1:00 P.M.

Date : 30-04-2018 S-2018-3896

Max. Marks : 60

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. 1** Write short note on **ANY FOUR** of the following: (16)

- a) Chemical agents of sterilization
- b) Flagella
- c) Innate immunity
- d) Laboratory diagnosis of Syphilis
- e) Universal safety precautions
- f) Agglutination

**Q. 2** Long Question on **ANY ONE** of the following:

- a) Enumerate acid fast bacilli. (02)
- b) Describe Morphology, cultural characteristics and pathogenicity of Mycobacterium tuberculosis. (08)
- c) Discuss laboratory diagnosis of pulmonary tuberculosis. (04)

**OR**

- a) Enumerate organisms responsible for pyogenic meningitis. (02)
- b) Describe Morphology, cultural characteristics and pathogenicity of Neisseria meningitidis. (08)
- c) Discuss laboratory diagnosis of meningococcal meningitis. (04)

**SECTION - III**

**Q. 3** Write short note on **ANY FOUR** of the following: (16)

- a) Cultivation of viruses
- b) Neural and non-neural vaccines in Rabies
- c) Cryptococcosis
- d) Amoebiasis
- e) Important fungi of medical importance
- f) Opportunistic infections

**Q. 4** Long Question on **ANY ONE** of the following:

- a) What is hepatitis and types of it? (02)
- b) Write down the pathogenicity of hepatitis B. (08)
- c) How it is diagnosed in laboratory and treatment of it? (04)

**OR**

- a) Name three cestode and nematode. (02)
- b) Draw and explain complete life cycle of E. histolytica. (08)
- c) Write down its pathogenicity and lab diagnosis. (04)