

**POST BASIC BACHELOR OF SCIENCE (NURSING)**  
**F. Y. P. B. B. Sc. (Nursing) :SUMMER : 2023**  
**SUBJECT : MICROBIOLOGY**

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 5/7/2023

**S-5660-2023**

Max. Marks : 75

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**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.
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**SECTION – I**

**Q.1** Write short notes on **ANY FIVE** of the following: **[10]**

- a) Significant bacteriuria
- b) Name four application of agglutination reaction.
- c) Culture media for *Vibrio cholerae*.
- d) Name four examples of acid fast bacteria.
- e) Name four members of Enterobacteriaceae.
- f) Define sterilization. Give examples of methods of sterilization using moist heat.
- g) Name four examples of selective media.

**Q.2** Short Answer Questions on **ANY FOUR** of the following: **[16]**

- a) ELISA
- b) *Shigella* dysentery
- c) Weil-Fleix test
- d) Laboratory diagnosis of meningococcal meningitis
- e) Laboratory diagnosis of typhoid fever
- f) Pathogenicity of *Streptococcus pyogenes*

**Q.3** Long Answer Questions on **ANY ONE** of the following: **[12]**

- a) Enumerate bacteria causing gas gangrene. **[02]**
- b) Describe morphology, cultural characteristics and pathogenicity of *Clostridium perfringens*. **[06]**
- c) Laboratory diagnosis of gas gangrene. **[04]**

**OR**

- a) Classify leprosy. **[02]**
- b) Describe morphology, pathogenicity of *Mycobacterium leprae*. **[06]**
- c) Laboratory diagnosis of leprosy. **[04]**

P.T.O.

**SECTION – II**

**Q.4** Write short notes on **ANY FIVE** of the following: **[10]**

- a) Opportunistic infections in AIDS
- b) Name four sexually transmitted diseases.
- c) Pathogenicity of Adeno virus
- d) Give the names of Candida species.
- e) What is Hepatitis?
- f) Name four species of Malarial parasite.
- g) What are vectors?

**Q.5** Short Answer Questions on **ANY FOUR** of the following: **[16]**

- a) Vector borne diseases
- b) Pathogenicity of Rabies virus
- c) Immunization in polio
- d) Pathogenicity of *Ascaris lumbricoides*
- e) Histoplasmosis
- f) Opportunistic fungal infection

**Q.6** Long Answer Questions on **ANY ONE** of the following:

- a) Draw life cycle of *Entamoeba histolytica*. **[02]**
- b) Pathogenicity of *Entamoeba histolytica*. **[04]**
- c) Laboratory diagnosis of *Entamoeba histolytica*. **[05]**

**OR**

- a) What is Poliomyelitis? **[02]**
- b) Write down pathogenicity of Poliomyelitis. **[04]**
- c) Laboratory diagnosis and vaccination used in Poliomyelitis. **[05]**

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**POST BASIC BACHELOR OF SCIENCE (NURSING)**  
**F. Y. P. B. B. Sc. (Nursing) : : SUMMER - 2022**  
**SUBJECT : MICROBIOLOGY**

Day : Tuesday  
Date : 31-05-2022

**S-5660-2022**

Time : 10:00 AM-01:00 PM  
Max. Marks : 75

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**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 – I**

**Q.1** Write short notes on **ANY FIVE** of the following: **[10]**

- a) Bacterial growth curve
- b) Name four motile bacteria
- c) Classify hypersensitivity
- d) Enumerate Ag-Ab reactions.
- e) Pathogenicity of Staphylococcus aureus
- f) Toxins of Clostridium perfringens
- g) Name four examples of Enriched media

**Q.2** Short Answer Questions on **ANY FOUR** of the following: **[16]**

- a) Coagulate test
- b) Elek's gel precipitation test
- c) Widal test
- d) Laboratory diagnosis of pulmonary tuberculosis
- e) Pathogenicity of Pseudomonas aeruginosa
- f) Role of nurse in hospital infection control

**Q.3** Long Answer Questions on **ANY ONE** of the following: **[12]**

- a) Enumerate bacteria causing sexually transmitted diseases. **[02]**
- b) Describe morphology and pathogenicity of Treponema pallidum. **[06]**
- c) Add note on standard test for syphilis. **[04]**

**OR**

- a) Enlist four bacteria causing diarrhea. **[02]**
- b) Describe morphology, cultural characteristics and pathogenicity of Vibrio cholerae. **[06]**
- c) Laboratory diagnosis of cholera. **[04]**

P.T.O.

**SECTION – II**

**Q.4** Write short notes on **ANY FIVE** of the following: **[10]**

- a) Life cycle of *Ascaris lumbricoides*.
- b) Name four species of Malarial parasite
- c) Germ tube test of *Candida albicans*
- d) Routes of transmission of HIV virus
- e) Name three cestodes and three nematodes
- f) Morphological classification of fungi.
- g) Transmission routes of Hepatitis B virus

**Q.5** Short Answer Questions on **ANY FOUR** of the following: **[16]**

- a) Cultivation of virus in chick embryo.
- b) Aspergillosis.
- c) Pathogenicity of poliomyelitis
- d) Laboratory diagnosis of *Entamoeba histolytica*.
- e) Leishmaniasis
- f) Pathogenicity of Rhabdo virus.

**Q.6** Long Answer Questions on **ANY ONE** of the following:

- a) What is Hepatitis? **[02]**
- b) Write down the pathogenicity of Hepatitis B virus. **[04]**
- c) Laboratory diagnosis of Hepatitis B virus. **[05]**

**OR**

- a) Enumerate superficial fungal infections. **[02]**
- b) Describe pathogenicity of dermatophytes. **[04]**
- c) Laboratory diagnosis of dermatophytosis. **[05]**

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**F.Y.P.B.B.Sc. (NURSING) : SUMMER - 2021**  
**SUBJECT : MICROBIOLOGY**

Day : **Wednesday**  
Date : **09-06-2021**

Time : **10:00AM TO 1:00 P.M.**  
Max. Marks : **75**

**S-2021-5660**

**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 – I**

**Q.1** Write short answers on **ANY FIVE** of the following. **(10)**

- a) ELISA.
- b) Give 4 examples of disinfectants.
- c) Enriched media.
- d) Koch's postulates.
- e) Capsule.
- f) Bacterial growth curve.
- g) What is hospital infection? List the microbes causing hospital infection.

**Q.2** Write short answers on **ANY FOUR** of the following. **(16)**

- a) Differences between active and passive immunity.
- b) Laboratory diagnosis of leprosy.
- c) Autoclave.
- d) Nagler's reaction
- e) Classification of streptococci.
- f) Describe morphology and cultural characteristics of *Neisseria meningitidis*.

**Q.3** Write long questions on **ANY ONE** of the following. **(12)**

- a) Enumerate spore bearing anaerobes. **(02)**
- b) Describe morphology, cultural characteristics, toxins and pathogenicity of *Clostridium tetani*. **(06)**
- c) Laboratory diagnosis of tetanus. **(04)**

**OR**

- a) Enumerate Acid fast bacilli. **(02)**
- b) Describe morphology, cultural characteristics and pathogenicity of *Mycobacterium tuberculosis*. **(06)**
- c) Laboratory diagnosis of pulmonary tuberculosis. **(04)**

**SECTION – II**

**Q.4** Write short answers on **ANY FIVE** of the following. **(10)**

- a) Pathogenesis of Adeno virus.
- b) Give the name of candida species.
- c) Name 3 cestodes and nematodes.
- d) Morphological classification of fungi.
- e) What is poliomyelitis?
- f) Name three systemic infections.
- g) Opportunistic infections in AIDS.

**P.T.O.**

**Q.5** Write short answers on **ANY FOUR** of the following. **(16)**

- a) Aspergillosis.
- b) Clinical feature of Leishmaniasis.
- c) Pathogenicity of Hepatitis B virus.
- d) Elephantiasis.
- e) Laboratory diagnosis of HIV infection.
- f) Predisposing factors for fungal infections.

**Q.6** Write long questions on **ANY ONE** of the following. **(11)**

- a) Enumerate superficial fungal infections. **(02)**
- b) Describe pathogenicity of dermatophytes. **(04)**
- c) Laboratory diagnosis of dermatophytosis. **(05)**

**OR**

- a) Name 4 species of plasmodium. **(02)**
- b) Life cycle of malarial parasite. **(04)**
- c) Describe clinical signs and laboratory diagnosis of malaria. **(05)**

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090621-m-con-pune

F.Y.P.B.B.Sc. (NURSING) : SUMMER 2020  
SUBJECT : MICROBIOLOGY

Day : Thursday  
Date : 10-12-2020

S.2020-5660

Time : 9:00AM TO 12:00 NOON.  
Max. Marks : 75

**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 – I**

**Q.1** Write short answers on **ANY FIVE** of the following. (10)

- a) Universal safety precautions
- b) BCG vaccine
- c) Enumerate physical agents of sterilization
- d) Spore
- e) Enumerate 4 gram negative bacilli
- f) Contributions of Louis Pasteur to Microbiology
- g) Enumerate 4 staphylococcal diseases

**Q.2** Write short answers on **ANY FOUR** of the following. (16)

- a) Significant bacteriuria
- b) Laboratory diagnosis of cholera
- c) Delayed type of hypersensitivity
- d) Active immunity
- e) Laboratory diagnosis of syphilis
- f) Elek's gel precipitation reaction

**Q.3** Write long questions on **ANY ONE** of the following. (12)

- a) Enumerate gram negative cocci. (02)
- b) Describe morphology, cultural characteristics and pathogenicity of Neisseria gonorrhoea. (06)
- c) Laboratory diagnosis of gonorrhoea. (04)

**OR**

- a) Enumerate anaerobes (02)
- b) Describe morphology, cultural characteristics, toxins produced by Clostridium perfringens. (06)
- c) Discuss laboratory diagnosis of gas gangrene. (04)

**SECTION – II**

**Q.4** Write short answers on **ANY FIVE** of the following. (10)

- a) Enumerate the methods of cultivation of viruses.
- b) Important fungi of medical importance name it.
- c) Life cycle of *Ascaris lumbricoides*.
- d) Modes of transmission of Hepatitis B.
- e) Enumerate replication stages of virus.
- f) Different types of spores produced by fungi.
- g) Define parasites and name 4 parasites.

**P.T.O.**

**Q.5** Write short answers on **ANY FOUR** of the following. **(16)**

- a) *Candida albicans*
- b) Pathogenicity of Rabdo virus
- c) Amoebiasis
- d) Mycetoma
- e) Herpes simplex virus
- f) Pathogenicity of malarial parasite

**Q.6** Write long questions on **ANY ONE** of the following. **(11)**

- a) Draw and explain structure of *E. histolytica*. **(02)**
- b) Describe life cycle and pathogenicity of *E. histolytica*. **(04)**
- c) Laboratory diagnosis of ameobiasis. **(05)**

**OR**

- a) What is AIDS? **(02)**
- b) Write down the pathogenicity and clinical features. **(04)**
- c) How it is transmitted and prevented. **(05)**

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101220-m-con-pune



**F. Y. P. B. B. SC. (NURSING) : SUMMER - 2019**  
**SUBJECT: MICROBIOLOGY**

Day: Saturday  
Date: 27/04/2019

**S-2019-4363**

Time: 10.00 A.M. TO 01.00 P.M.  
Max. Marks: 75

**N.B.:**

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

**SECTION - I**

**Q.1** Write short answer on **ANY FIVE** of the following: **(10)**

- (a) Widal test.
- (b) Modes of transmission of infection.
- (c) Structure of IgM
- (d) Capsule
- (e) Enumerate 4 autoimmune diseases.
- (f) Name 4 bacterial vaccines.
- (g) Significant bacteriuria.

**Q.2** Write short note on **ANY FOUR** of the following: **(16)**

- (a) Define precipitation. Write a note on application of precipitation reaction.
- (b) Gram staining.
- (c) Innate Immunity.
- (d) Laboratory diagnosis of UTI
- (e) Mac- Conkeys Agar media.
- (f) Laboratory diagnosis of syphilis.

**Q.3** Write the long answer on **ANY ONE** of the following:

- (a) Enumerate Acid fast bacilli. **(02)**
- (b) Describe morphology and pathogenicity of *M. leprae*. **(05)**
- (c) Laboratory diagnosis of leprosy. **(05)**

**OR**

- (a) Enumerate anaerobes. **(02)**
- (b) Describe morphology, cultural characteristics and pathogenesis of *Corynebacterium diphtheriae*. **(05)**
- (c) Laboratory diagnosis of diphtheria. **(05)**

**SECTION - II**

**Q.4** Write short answer on **ANY FIVE** of the following: **(10)**

- (a) Polio Vaccine
- (b) Blood agar Media
- (c) Mantoux test
- (d) 4 differences between bacteria and virus.
- (e) Morphological classification of fungi.
- (f) Predisposing factors for fungal infections.
- (g) Define sterilization and disinfection

**P.T.O.**

- Q.5** Write short note on **ANY FOUR** of the following: **(16)**
- (a) Candidiasis
  - (b) Laboratory diagnosis of Giardiasis
  - (c) Dermatophytosis
  - (d) Rabies Vaccine
  - (e) Laboratory diagnosis of shigelosis
  - (f) Laboratory diagnosis of AIDS.

- Q.6** Write the long answer on **ANY ONE** of the following:
- (a) Write 3 Characters of cestodes **(01)**
  - (b) Write life cycle and pathogenicity of Taenia solium. **(05)**
  - (c) Laboratory diagnosis of Taeniasis. **(05)**

**OR**

- (a) Define Nosocomial infection **(01)**
- (b) Discuss sources and modes of its transmission **(05)**
- (c) Write role of Hospital acquired infection control committee. **(05)**

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270419-m-nursing-pune

69

Day : Saturday  
Date : 20-10-2012

Time :  
Max. Marks : 15

N.B.

- 1) All questions are **COMPULSORY**
- 2) Put a tick mark in the appropriate box.
- 3) Use blue/black ball point pen, only.
- 4) Section - I should be completed within 20 minutes.
- 5) Each question carries **ONE** mark.
- 6) Students will not be allotted marks if he or she overwrite, strikes or puts ink on the box once marked.

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

Total marks obtained \_\_\_\_\_

Jr. Signature \_\_\_\_\_

Examiner Signature: \_\_\_\_\_

**SECTION - I**

**M.C.Q.**

- 1) Bacteria multiply by:
  - a)  Conjugation
  - b)  Sporulation
  - c)  Binary fission
  - d)  Budding
- 2) Gram staining is :
  - a)  Simple staining
  - b)  Acid fast staining
  - c)  Differential staining
  - d)  Negative staining
- 3) Rubber gloves are sterilized by:
  - a)  Autoclaving
  - b)  Boiling
  - c)  Hot air oven
  - d)  U.V. rays
- 4) Predominant antibodies in primary immune response is
  - a)  Ig E
  - b)  Ig D
  - c)  Ig M
  - d)  Ig G

P.T.O.

- 5) Coagulase is produced by:
- a)  Streptococci
  - b)  Staphylococci
  - c)  Pneumococci
  - d)  Gonococci
- 6) Leprosy spread by:
- a)  Droplet infection
  - b)  Contaminated water
  - c)  Blood transfusion
  - d)  Contaminated milk
- 7) Organism causing sexually transmitted disease is :
- a)  Treponema pallidum
  - b)  Neisseria meningitides
  - c)  Streptococcus pneumoniae
  - d)  Haemophilus influenzae
- 8) Father of antiseptic surgery is:
- a)  Robert Koch
  - b)  Joseph Lister
  - c)  Robert Hook
  - d)  Ruska
- 9) Dengue fever is transmitted by which of the following mosquitoes.
- a)  Anopheles
  - b)  Aedes
  - c)  Culex
  - d)  Mansoni
- 10) Reynolds Braude phenomenon (germ tube formation) is seen in:
- a)  Mucor
  - b)  Aspergillus
  - c)  Candida albicans
  - d)  Cryptococcus
- 11) Polluted soil may act as a source of infection with:
- a)  Ascaris lumbricoides
  - b)  Ancylostoma duodenale
  - c)  Strongyloides stercoralis
  - d)  All of the above

- 12) At the birth, baby is immunized by:
- a)  BCG
  - b)  OPV
  - c)  Both of the above
  - d)  None of the above
- 13) Kala-azar is caused by:
- a)  Leishmania donovani
  - b)  Plasmodium vivax
  - c)  Entamoeba histolytica
  - d)  Giardia lamblia
- 14) Which coloured bags are used for collection of infectious material:
- a)  Black
  - b)  Yellow
  - c)  White
  - d)  Blue
- 15) Modified acid-fast stain is used for diagnosis of:
- a)  Entamoeba histolytica
  - b)  Plasmodium vivax
  - c)  Cryptosporidium parvum
  - d)  Leishmania denovani

RAJMACH - I : APRIL/MAY - 2012  
SUBJECT : MICROBIOLOGY

Day : Monday  
Date : 23-04-2012

Time : \_\_\_\_\_  
Max. Marks : 15

N.B.

- 1) All questions are **COMPULSORY**
- 2) Put a tick mark in the appropriate box.
- 3) Use blue/black ball point pen, only.
- 4) Section - I should be completed within 20 minutes.
- 5) Each question carries **ONE** mark.
- 6) Students will not be allotted marks if he or she overwrite, strikes or puts ink on the box once marked.

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

Total marks obtained \_\_\_\_\_

Jr. Signature \_\_\_\_\_

Examiner Signature : \_\_\_\_\_

**SECTION - I**

**M.C.Q.**

- 1) Which of the following is Eukaryote?
  - a)  Bacteria
  - b)  Fungi
  - c)  Chlamydia
  - d)  Mycoplasma
- 2) Inoculation loop is sterilized by :
  - a)  Dipping in alcohol
  - b)  Boiling
  - c)  Flaming
  - d)  Autoclaving
- 3) Holding time and temperature of autoclave is :
  - a)  121<sup>0</sup>C for 15 min
  - b)  160<sup>0</sup> C for one hour
  - c)  121<sup>0</sup> C for one hour
  - d)  85<sup>0</sup> C for one hour
- 4) Antibody which cross placental barrier is :
  - a)  Ig M
  - b)  Ig D
  - c)  Ig G
  - d)  Ig A

- 5) The most frequently encountered Clostridium species in Gas Gangrene is :
- a)  Clostridium welchii
  - b)  Clostridium sporogenes
  - c)  Clostridium fallox
  - d)  Clostridium tetani
- 6) Medium used for cultivation of Mycobacterium tuberculosis is :
- a)  Blood agar
  - b)  L.J. medium
  - c)  Nutrient agar
  - d)  Mac Conkey's agar
- 7) All of the following are causing UTI except:
- a)  E. coli
  - b)  Proteus
  - c)  Klebsiella
  - d)  Haemophilus
- 8) What is true about Vibrio cholerae?
- a)  Darting motility
  - b)  Comma shaped Gram negative bacilli
  - c)  Single polar flagella
  - d)  All of the above
- 9) Hepatitis B virus is not transmitted by :
- a)  Blood transfusion
  - b)  Faeco - oral route
  - c)  Congenital transmission
  - d)  Sexual contact
- 10) The culture media used for cultivation of fungi is :
- a)  Tellurite medium
  - b)  Nutrient agar
  - c)  Blood agar
  - d)  Sabouraud's Dextrose agar
- 11) Giardia lamblia's shape is like:
- a)  Hand ball
  - b)  Cricket bat
  - c)  Tennis racket
  - d)  Hockey stick

- 12) Animal carcasses and histo-pathological wastes are treated by:
- a)  Autoclave
  - b)  Hot air oven
  - c)  Incineration
  - d)  Chemical
- 13) Which of the following nematodes lay eggs containing larvae?
- a)  Trichinella spiralis
  - b)  Enterobius vermicularis
  - c)  Brugia malayi
  - d)  Ascaris lumbricoides
- 14) Oral polio vaccine is :
- a)  Live attenuated vaccine
  - b)  Killed vaccine
  - c)  Toxoided vaccine
  - d)  None of the above
- 15) Which is the longest nematode parasite?
- a)  Ascaris lumbricoides .
  - b)  Tinea solium
  - c)  Dracunculus medinensis
  - d)  Fasiolopsis buski

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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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F.Y.P.B.Sc. Nursing : SUMMER-2018

SUBJECT : MICROBIOLOGY

Day : Monday

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)