

I -B.OPTOM. SEM – II : SUMMER - 2019

SUBJECT: RELATED SCIENCES

Day: Tuesday  
Date: 09/04/2019

S-2019-4003

Time 1  
Max Marks: 20

N.B.:

**Section-A** is given on a separate sheet has to be answered on the **SAME** sheet.  
This sheet should be completed within the **first 30 minutes** of starting of the examination. This sheet with **Section- A** only will be collected by the supervisor.

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

SECTION-A

- Q.1** A) Give duration of action of following drugs:- (04)
- i) Homatropine
  - ii) Tropicamide
  - iii) Atropine
  - iv) Pilocarpine
- B) Give Normatic values of following:- (06)
- i) Hb-Male \_\_\_\_\_ and Female \_\_\_\_\_.
  - ii) WBC count of Adult \_\_\_\_\_ and children \_\_\_\_\_.
  - iii) Blood sugar level Fasting \_\_\_\_\_ and PP \_\_\_\_\_.
- C) Match the following:- (03)
- i) Bacteria                      a) Cell wall is absent
  - ii) Virus                         b) has thread like body
  - iii) Fungus                      c) helps in absorpotion of Vit B in human intestine
- Q.2** State True or False: (07)
- i) Virus is true cell structure.
  - ii) Virus containing RNA as the genetic material is known as Retro virus.
  - iii) AIDS disease is caused due to human immuno-deficiency virus.
  - iv) Fungi cells are usually smaller than bacteria.
  - v) Bacteria and Fungi both are friends as well as enemies of humans.
  - vi) The fungal growth can not be controlled by Phenol.
  - vii) Bacteria are prokaryotic, unicellular organisms.

Signature of invigilator: \_\_\_\_\_

Signature of examiner \_\_\_\_\_

Marks obtained:

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Day: Tuesday

Date: 9-4-2019

S-2019-4003

Time: 10:00 A.M. To 1:00

Max Marks: 50

P.M.

**N.B.:**

- 1) There are **THREE** sections as-  
Section- A = Objectives types questions =20 Marks.  
Section- B= Long questions =20 Marks.  
Section- C= Short questions =30 Marks.
- 2) **Section- A** is given on a separate sheet and has to be answered on the starting of the examination. This sheet with **Section-A** only will be collected by the supervisor.
- 3) **Section-B** has 3 long questions and **Any Two** questions have to be answered on the separate answer sheet.
- 4) **Section- C** has short questions **Any FIVE** questions have to be answered on the **separate** answer sheet.
- 5) Draw neat labeled diagram wherever necessary.

**SECTION B**

**Q.3** Answer in detail ant **TWO** of the following: (20)

- i) Explain in detail factors affecting drug metabolism or drug action.
- ii) Define and explain Infection. Add a note on Bacterial Infection.
- iii) Define sterilization and explain its methods.

**SECTION C**

**Q.4** Write short note on any **FIVE** of the following: (30)

- i) Fungus
- ii) Parasitic infection of eye.
- iii) Dose response relationship.
- iv) Drugs acting on ANS in ophthalmology.
- v) Hematology.
- vi) Explain following terms:-
  - a) Thrombosis
  - b) Infarction
  - c) Embolism

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