

I - B. Optom - Sem - I - SUMMER - 2019

SUBJECT : HUMAN BIOLOGY

S-2019-3999

N. B. :

Section – A is given on a SEPARATE sheet and has to be answered on the same sheet.
This sheet should be completed with the first 30 minutes of starting of the examination.
This sheet with section – A only will be collected by the Supervisor.

Seat No. _____

Date: 25-03-2019

SECTION – A

Q. 1 Fill in the blanks: (10)

- a) Broca's area is located in _____ lobe of cerebral cortex.
- b) Total number of bones in human body are _____.
- c) _____ cells in blood take part in coagulation mechanism.
- d) Formation of glucose from non carbohydrate substrates is called as _____.
- e) Structural and functional unit of brain is _____.
- f) Facial muscles are supplied by _____ cranial nerve.
- g) Maintenance of constant internal environment of body is called as _____.
- h) Transport across cell membrane using ATP is _____ transport.
- i) The involuntary response to a stimulus is called as _____.
- j) Hormone secreted by parathyroid gland is called as _____.

Q. 2 State True or False : (05)

- a) Deficiency of Vitamin D causes rickets in children.
- b) Power house of cell is nucleus.
- c) Oculomotor nerve supplies superior rectus muscle.
- d) Intrinsic factor is secreted in stomach.
- e) A. V. node is pacemaker of heart.

Q. 3 Match the following: (05)

- | | |
|--------------------|-----------------|
| a) Parietal lobe | i) Vision |
| b) Cardiac muscle | ii) Voluntary |
| c) Occipital lobe | iii) Motor |
| d) Skeletal muscle | iv) Involuntary |
| e) Frontal lobe | v) Sensory |

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I -B.OPTOM. SEM – I : SUMMER - 2019
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Day Monday
Date: 25/03/2019

Time 02.00 PM TO 05.00 PM
Max. Marks : 70

S-2019-3999

N. B. :

- 1) There are **THREE** section as:
Section – A : Objective 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 same sheet. This sheet should be completed with the first **30** minutes of starting of the examination. This sheet with section – A only will be collected by the Supervisor.
 - 3) **Section – B** has three long questions and **ANY TWO** questions have to be answered on the separate answer sheet.
 - 4) **Section – C** has short questions and **ANY FIVE** questions have to be answered on the separate answer sheet.
 - 5) Draw neat and labeled diagrams **WHEREVER** necessary.
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SECTION – B

- Q. 4** Attempt **ANY TWO** of the following: **(20)**
- a) Define joints. Give classification of joints. Draw and label diagram showing structure of synovial joint.
 - b) Enumerate cranial nerves. State functions of each nerve.
 - c) Enumerate various structures in gastro intestinal tract. State functions of each.

SECTION – C

- Q. 5** Write short notes on **ANY FIVE** of the following: **(30)**
- a) Vitamin A
 - b) Autonomic nervous system
 - c) Enzymes
 - d) Mechanism of Respiration
 - e) Enumerate endocrine glands and their functions
 - f) Menstrual cycle

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