

I- B.OPTOM. SEM-I : SUMMER-2022
SUBJECT : HUMAN BIOLOGY
S-826-2022

Note :

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

Seat No. : _____

Date : Thursday

Day : 07-07-2022

Max. Marks : 20

SECTION - A

Q.1 Fill in the blanks : **(10)**

- a) Protein synthesis is takes place in -----.
- b) Lifespan of platelets is -----.
- c) Vitamin K is required for the synthesis of factor -----.
- d) Structural and functional unit of Kidney is -----.
- e) One gram of fat gives ----- kCal.
- f) Powerhouse of cell is -----.
- g) During strenuous exercise glucose is converted into -----.
- h) Functional unit of thyroid gland is -----.
- i) ----- is the common opening for digestive and respiratory system.
- j) ----- is the major reabsorption site in nephron.

Q.2 State True or False **(05)**

- a) Salivary gland secretes immunoglobulin IgG.
- b) In ECG P wave is due to atrial depolarization.
- c) Normal GFR is 125 ml / min.
- d) End product of aerobic glycolysis is pyruvate.
- e) Vit. B₃ is called as antisterility factor.

PTO

Q.3 Match the following

(05)

| | | | |
|-----------|------------------------------|-----------|---------|
| 1) | Junction between two neurons | A) | Iodine |
| 2) | PTH | B) | Rickets |
| 3) | Vit. D | C) | Synapse |
| 4) | Normal stroke volume | D) | Calcium |
| 5) | Goitre | E) | 70 ml |

Marks Obtained : _____

Signature of Invigilator : _____

Signature of Examiner : _____

BACHELOR OF CLINICAL OPTOMETRY
I-B. Optometry Sem-I :SUMMER- 2022
SUBJECT : HUMAN BIOLOGY

Day : Thursday
Date : 7/7/2022

S-826-2022

Time : 10:00 AM-01:00 PM
Max. Marks : 70

N.B.

- 1) There are **THREE** sections 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 **SEPARATE** sheet has to be answered on the same sheet.
 - 3) Section B has 3 long questions and **ANY TWO** questions have to be answered on the **SEPARATE** answerbook.
 - 4) Section C has short questions and **ANY FIVE** questions have to be answered on **SEPARATE** answerbook.
 - 5) Draw neat and labelled diagram **WHEREVER** necessary.
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SECTION - B

Q.1 Attempt **ANY TWO** of the following : **(20)**

- a) Describe in detail about visual pathway. Draw a neat and labeled diagram.
- b) Describe in detail about Endocrine system.
- c) Describe in detail about cranial nerves.

SECTION – C

Q.2 Write short note on **ANY FIVE** of the following : **(30)**

- a) Vit. A
- b) Micturition reflex
- c) Respiratory membrane
- d) Stomach
- e) Vit. B₁₂
- f) Cough reflex
