

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

Day : Monday

Time : 10:00 AM-01:00 PM

Date : 30-01-2023

W-826-2022

Max. Marks : **20**

N.B.:

Section –A is given on a separate sheet and has to be answered on the same sheet. There 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: _____

SECTION –A

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

- a) There are _____ pairs of spinal nerves.
- b) Normal GFR in a 70kg man is _____ ml/ min.
- c) 1 gm of fat gives _____ Kcal.
- d) Optic nerve arises from _____.
- e) Intrinsic factor is secreted by _____.
- f) Normal cardiac output is _____.
- g) Oxytocin is secreted by _____ part of pituitary gland.
- h) Hip joint is _____ type of joint.
- i) Clotting time is prolonged due to deficiency of Vitamin _____.
- j) Structural and functional unit of respiratory system is _____.

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

- a) Excess secretion of growth hormone leads to cretinism.
- b) Power house of cell is nucleus.
- c) Fibrous joints are freely movable joints.
- d) S.A. node is the pace maker of heart.
- e) Xrophthalmia is caused by deficiency of vit K.

Q.3 Match the following: **(05)**

- | | |
|-------------------------|-------------------|
| a) Occipital lobe | i) Thyroid gland |
| b) Phrenic nerve | ii) Diabetes |
| c) Vagus nerve | iii) Diaphragm |
| d) Insulin | iv) Vision |
| e) Basal metabolic rate | v) Visceral organ |

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Max. Marks 50

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- 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 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 completed by the Supervisor.
- 3) **Section –B** has three long questions are **ANY TWO** questions have to be answered on the **SEPARATE** answer sheet.
- 4) **Section –C** has three short questions are **ANY FIVE** questions have to be answered on the **SEPARATE** answer sheet.
- 5) Draw neat labelled diagrams **WHEREVER** necessary.

SECTION-B

- Q.4** Attempt any **TWO** of the following: (20)
- a) Describe fat metabolism in detail.
 - b) Describe in detail about regulation of respiration.
 - c) Write in detail about endocrine system.

SECTION-C

- Q.5** Write short notes on any **FIVE** of the following: (30)
- a) Liver
 - b) Blood vessels
 - c) Properties of synapse
 - d) Cranial Nerve V
 - e) Beriberi
 - f) Structure of the heart

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