

I-B-OPTOM-SEM-I: WINTER-2017

SUBJECT : HUMAN BIOLOGY

W-2017-3467

Section – A is given on a **SEPARATE** sheet and 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.

No. _____

Date : 27-11-2017

SECTION – A

Q. 1 State True or False: (10)

- a) Cartilage has no blood vessels.
- b) Slow pain is appreciated in thalamus.
- c) Gaseous exchange in alveoli occurs via active transport.
- d) Sensations of face are carried by facial nerve.
- e) The ends and tips of bone which ossify from secondary centers are called epiphyses.
- f) Sympathetic nervous system has thoracolumbar outflow.
- g) Occipital lobe is concerned with hearing sensation.
- h) Fracture is break in the continuity of bone.
- i) Hormone responsible for blood glucose regulation is Oxytocin.
- j) Vit. A is water soluble vitamin.

Q. 2 Fill in the Blanks: (05)

- a) Bones containing large air spaces lined by epithelium is called as _____ bones.
- b) Normal cardiac cycle time is _____ sec.
- c) A plane at right angles to a vertical plane is _____ plane.
- d) Excess secretion of growth hormone in an adult leads to _____.
- e) Vital centers are located in _____.

Q. 3 Match the following: (05)

- | | |
|--------------------------------|-----------------|
| a) Epiphyseal end of diaphysis | i) Vertebra |
| b) Irregular bone | ii) Patella |
| c) Sesamoid bone | iii) Metaphysis |
| d) Flat bone | iv) Sternum |
| e) Short bone | v) Carpal |

Marks Obtained: _____

Signature of Invigilator: _____

Signature of Examiner : _____

I -B.OPTOM. SEM – I : WINTER - 2017

SUBJECT : HUMAN BIOLOGY

Day : **Monday**
Date : **27/11/2017**

W-2017-3467

Time : **10.00 AM TO 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 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 labelled diagrams **WHEREVER** necessary.
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SECTION – B

- Q. 4** Answer in detail **ANY TWO** of the following: **(20)**
- a) Enumerate Cranial nerves. Describe in brief function of each.
 - b) Give an account of structure of heart. Describe regulation of heart rate.
 - c) Enumerate endocrine glands. Write actions of thyroid hormone.

SECTION – C

- Q. 5** Write in short **ANY FIVE** of the following: **(30)**
- a) Autonomic nervous system
 - b) Skin
 - c) Transport across cell membrane
 - d) Components of blood
 - e) Enzymes
 - f) Epithelial tissue

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