

# Mock Board Exam

STD: X  
Maximum marks : 40

SUBJECT: Biology  
23/3/2022 11:00 - 23/3/2022  
22:30

ASSESSMENT: Mock Test  
Time Limit : 150 Minutes

Answers to this Paper must be written on the paper provided separately.

Attempt all questions from Section A and any three questions from Section B.

A student has to answer a question either by typing it out, in the space provided, or writing down each answer on paper, and uploading a picture of it using the upload option.

A student is advised to write the answers in a clear, legible handwriting using a blue/black ball point pen before uploading it.

## Section A

10 Marks

Name the following by choosing the correct answers to the questions from the given options.

Do not copy the question, write the correct answer only. Select the correct answer for the MCQ questions.

10 Marks

- 1 Which chamber of heart has the thickest wall ? 1 M
- (A) Right ventricle (B) Left ventricle
- (C) Right auricle (D) Left auricle
- 2 Which of the following parts of the adrenal gland secretes mineralocorticoids? 1 M
- (A) Zona glomerulosa (B) Zona Reticularis
- (C) Zona Fasciculata (D) Adrenal medulla
- 3 In total, how many pairs of spinal nerves are present? 1 M
- (A) 21 (B) 12 (C) 8 (D) 31
- 4 The right kidney is placed lower than the left kidney due to the presence of: 1 M
- (A) Lungs (B) Heart (C) Liver (D) Stomach
- 5 What is another name for ADH hormone? 1 M
- (A) Oxytocin (B) Vasopressin
- (C) Prolactin (D) Growth Hormone

- 6 The tube that carries urine from the kidneys to the urinary bladder is: **1 M**  
(A) Urethra (B) Ureter (C) Renal tubule (D) Nephron
- 7 Thromboplastin required for blood clotting at the site of injury is released by: **1 M**  
(A) Thrombocytes (B) Monocytes (C) Basophils (D) Neutrophils
- 8 Deficiency of iodine in an adult diet causes a disease called: **1 M**  
(A) Infertility (B) Gigantism (C) Goitre (D) Diabetes insipidus
- 9 The somatic nervous system is responsible for the movement of: **1 M**  
(A) Voluntary muscles (B) Involuntary muscles  
(C) Cardiac muscles (D) Smooth muscles
- 10 An instrument that measures blood pressure is known as: **1 M**  
(A) Anemometre (B) Stethoscope  
(C) Thermometre (D) Sphygmomanometer

## Section B

**30 Marks**

(Attempt any three Group from this Section B.)

### Group 1

**10 Marks**

- 11 State two important functions performed in our body by lymph. **2 M**
- 12 Why is the spinal cord and the brain referred to as the central nervous system? **2 M**
- 13 What will happen if: **3 M**  
(a) The adrenal gland is removed.  
(b) Blood sugar level falls.  
(c) Thyroid gland does not function properly.
- 14 Explain the functioning of nephrons. **3 M**

### Group 2

**10 Marks**

- 15 Why is blood circulation in the human heart called double circulation? **2 M**
- 16 How do endocrine glands differ from other glands ? **2 M**
- 17 Explain reflex arc and reflex action briefly. **3 M**

18 Explain the process of urine formation that takes place in the renal corpuscle. **3 M**

**Group 3** **10 Marks**

19 What is Peripheral Nervous System? **2 M**

20 How much urine is excreted by a normal man per day? and what is the amount of urea and uric acid in it? **2 M**

21 Sino-atrial nodes are called the pacemaker of our heart. Why? **3 M**

22 State three characteristics of hormones. **3 M**

**Group 4** **10 Marks**

23 Name the various organs of the human excretory system. Draw a neat labelled diagram of the human excretory system. **2 M**

24 What are the parts of the human brain and what are their functions? **2 M**

25 Explain the Structure, functions & location of Adrenal gland. **3 M**

26 Give a detailed account on blood cells. **3 M**

**Group 5** **10 Marks**

27 Describe the nervous system and its functions. **2 M**

28 Why is excretion necessary? Name the common excretory substances in our body. **2 M**

29 What prevents backflow of blood inside the heart during contraction? **3 M**

30 How does the pituitary gland help in secretion of hormones by other glands? **3 M**