

Instructions:

Read the question paper carefully. Write neatly and legibly. Do not over write. Pay special attention to spelling. Read the answers before submitting the answer sheet.

Section A is compulsory. Attempt any four questions from Section B. The intended marks for questions or parts of questions are given in brackets.

SECTION A (40 Marks)

(Attempt all questions from this section)

I. Choose the correct option.

1. Which one of the following hormones stimulates the breakdown of glycogen in the liver into glucose? [10] / 10
- a) Insulin
b) Adrenaline
c) Glucagon
d) Thyroxine
2. The vein which brings oxygenated blood to the heart from the lungs:
- a) Renal Vein
b) Superior Vena cava
c) Pulmonary Vein
d) Coronary Vein
3. The smell of good food causes watering of your mouth. It is :
- a) Natural reflex
b) Acquired reflex
c) Inborn reflex
d) Ordinary reflex
4. Dengue is caused by
- a) Protozoan
b) Virus
c) Worm
d) Fungus
5. Medulla oblongata controls:
- a) Smelling
b) Beating of heart and respiratory movement
c) Intelligence and Will power
d) Balancing of the body
6. The idea of vaccination was conceived by
- a) Charles Darwin
b) Alexander Flemming
c) Issac Newton
d) Edward Jenner
7. Which of the following is the common breed of buffalo found in Gujrat?
- a) Surti
b) Murrah
c) Gir
d) Mehsana
8. The emergency hormone to face the danger or to fight is secreted by:
- a) Islets of langerhans
b) Adrenal Cortex
c) Pituitary
d) Adrenal medulla
9. Among the following, a kharif crop is:
- a) Barley
b) Mustard
c) Wheat
d) Rice
10. Which of the following hormone converts excess of glucose into glycogen?
- a) Glucagon
b) Thyroxine

c) Insulin

d) Adrenaline

[5]

II. Fill in the blanks.

- _____ is an example of tuber crop
- Rearing of birds for egg and meat is called _____
- _____ is called as master gland
- _____ is structural and functional unit of nervous system
- Pig farming is termed as _____

[5] 5

III. Match the column.

Column I	Column II
1. Livestock	a) Plasmodium
2. Pulmonary vein	b) Cows
3. Growth hormone	c) Insufficient iodine in food
4. Malaria	d) Oxygenated blood
5. Simple goitre	e) Pituitary gland

[5] 5

IV. Write exact location of the following.

- Thyroid gland
- Pancreas
- Pituitary gland
- Adam's apple
- Adrenal gland

[5] 5

V. Name the following.

- Four blood groups on the basis of antigens.
- The long, extended process of a neuron.
- A kashmiri goat which gives expensive wool.
- The practice of rearing of honey bees.
- A disease caused by mosquito bites

[5] 45

VI. Write full forms of each of the following.

- BCG
- HIV
- AIDS
- WBCs
- TAB

[5] 5

VII. Write one important role of the following.

- Cerebrum
- Cerebellum
- Medulla oblongata
- Spinal Cord
- Receptors

SECTION B (40 Marks)

(Attempt any four questions from this sections)

VIII a) Define endocrine glands.

[2]

b) Give functions of lymph.

[3]

c) Draw a neat labeled diagram of the 'Internal structure of yeast'. Answer the following questions.

[5]

- (a) Name the kingdom to which the Yeast belongs.
 (b) Is it unicellular or multicellular?
 (c) Write the economic importance of Yeast in two points.
 (d) Write the specific mode of nutrition in this organism
 (e) What are the suitable medium places where Yeast can grow successfully?

- XIII** a) Explain synapse [2]
 b) List the uses of bacteria in the food industry. [3]
 c) What is vaccination? Mention the four ways in which vaccines are prepared, giving the name of one disease for which each type of vaccine is used [5]

- IX** a) Give two examples of communicable disease [2]
 b) Differentiate between inborn and acquired reflexes. [3]
 c) With the help of a suitable example, describe reflex action. [5]

- XI** a) What is organic farming? What is the main aim of organic farming [2]
 b) Epinephrine is also called as "emergency hormone". Explain. [3]
 c) Give alongside is a diagram of the human heart showing its internal structure. Label the parts marked 1 to 6, and answer the following questions [5]
 (a) Which type of blood is carried by the blood vessel marked 2?
 (b) Name the main artery which takes the blood from heart to different parts of the body?
 (c) Which chamber of the heart receives deoxygenated blood from the body?



- XII** a) Distinguish between food crop & cash crop [2]
 b) What are communicable diseases? [3]
 c) Draw a neat and labeled diagram of a neuron and answer the following questions: [5]
 (a) What are the two main parts of a neuron?
 (b) Is this structure unicellular or multicellular?
 (c) Which part of the neuron contains nucleus?
 (d) Name the two parts of the human body where neurons are found abundantly.
 (e) How are neurons significant to us?

- XII** a) Define Circulatory system [2]
 b) Burns can be superficial burns, deep burns or chemical burns. What emergency care would you suggest in each case. [3]
 c) Distinguish between the following pairs on the basis of the words indicated in the brackets [5]
 (a) Exocrine and Endocrine glands (secretion)
 (b) Cretinism and Myxoedema (symptoms)
 (c) Insulin and Glucagon (function)
 (d) Thyroxine and adrenaline (source)
 (e) Human male and female hormone (one example of each)

II. Fill in the blanks

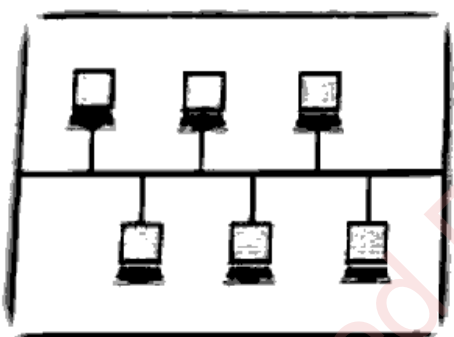
1. Title bar displays the _____ of the open file.
2. A area covered by CAN is larger than a LAN but smaller than a _____
3. Networking is a better solution to deliver _____ at a fast speed
4. Google Play is an international online software store for _____ devices
5. _____ is the process of working out the bugs in your app.
6. _____ are the reserved words in java.
7. Programs store and _____ data
8. Co-axial and Fiber optics are types of _____
9. System.____.println
10. Stroke height displays the _____ of the stroke.

III. State True or False

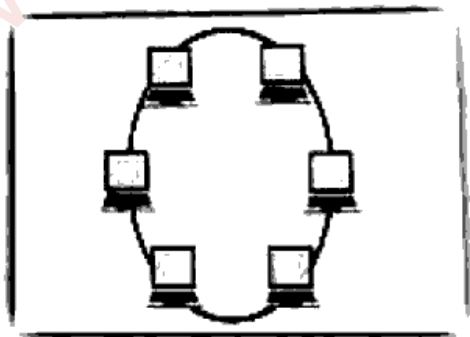
1. The selection Tool has three common modes
2. Twisted pair cable is like a TV cable wire.
3. Native apps are developed for a single mobile operating system.
4. <- is an example of logical operators in java.

IV. Write the name of topology for the following: -

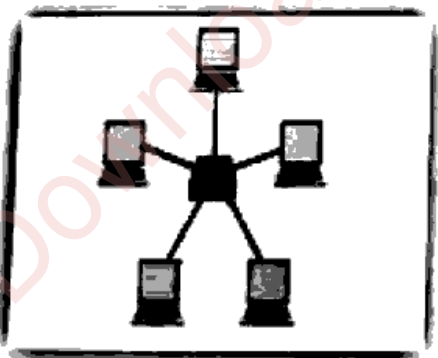
(1)



(2)



(3)



(4)

