

1. A) Choose the correct answer from the four options given below: (15)
- 1) Anaemia is caused due to the deficiency of _____
a) Chlorine b) Phosphorus c) Iron d) Calcium
 - 2) Number of Cervical vertebrae in neck region is _____
a) 5 b) 7 c) 3 d) 4
 - 3) Assertion (A) -In the school, physical teacher advised students to sit in the sun at least for 10 minutes daily in the morning.
Reason (R) – skin synthesised vitamin D itself in the sun.
a) A is true and R is false b) A is false and R is true
c) A and R both are true d) A and R both are false
 - 4) Which of the following teeth are not found in a human child
a) Molars b) Premolars c) Canines d) Incisors
 - 5) Hydrochloric acid and Pepsin enzyme are found in
a) Intestinal juice b) Gastric juice
c) Bile d) Saliva
 - 6) Vallisneria is pollinated by
a) Water b) Bird c) Wind d) Bees
 - 7) Which part of the Human respiratory system is known as Wind pipe?
a) Alveoli b) Trachea c) Bronchi d) Diaphragm
 - 8) Which of the following is a Parasitic worm ,in which sexes are separate?
a) Earthworm b) Tapeworm c) Ascaris d) Pin worm
 - 9) Assertion [A] –seed coat is the protective covering of the seed.
Reason [R] –it has outer Testa and inner Tegmen.
a) Both A and R are true b) Only R is true.
c) Only A is false d) Both A and R are false.
 - 10) The Antibiotic Penicillin is obtained from
a) Bacteria b) Protozoan c) Virus d) Fungi
 - 11) The most harmful waste in today's time is _____
a) Sewage b) Pesticides c) E-waste d) Agriculture waste

- 3) Malpighian layer is the outermost layer of the skin.
- 4) Segregation is the disposal of waste by burning.
- 5) Seeds are formed after pollination.
- F) Choose the odd one out from the following and name the category to which other three belong? (5)
- 1) Old mobiles, Batteries, Old TV, Gold.
 - 2) Style, Ovary, Filament, Stigma.
 - 3) Chicken pox, Malaria, Polio, Hepatitis.
 - 4) Humerus, Phalanges, Scapula, Ulna.
 - 5) House flies, Octopus, Ant, Butterfly.

SECTION – B (40 MARKS)

(Attempt any 4 questions)

2. a) Give the exact location of Meibomian gland? (1)
- b) Mention any two features of class -Pisces. (2)
- c) Sam didn't like fruits and green vegetables . He didn't know that fruits and vegetables are the great source of vitamins .Then his mother explained him about the types of Vitamins which are soluble in water or fat along with their importance .Name the vitamins which are soluble in Fat only. (2)
- d) Expand the following : (2)
- i. NICD
 - ii. HIV
- e) Given below is the diagram of a type of joint .study this and answer the questions that follow: (3)



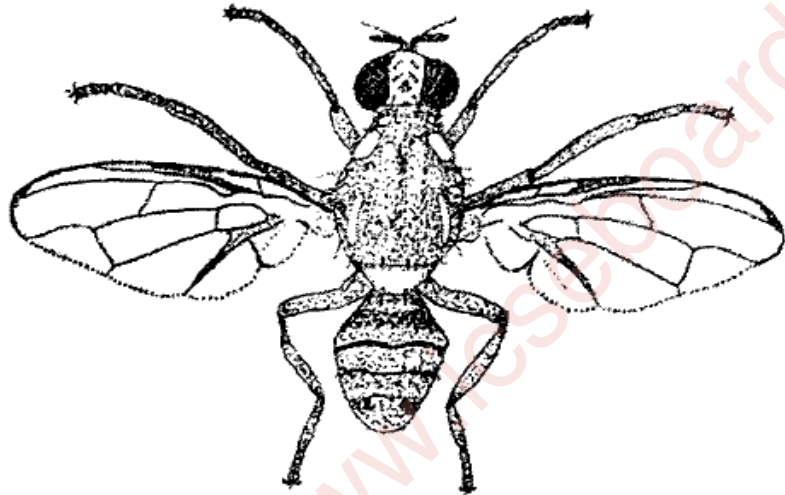
- i. Name the joint shown in the figure.
 - ii. Name the parts labelled as 1 and 2.
 - iii. Where do you find such a joint shown in the figure?
3. a) Mention the longest cell of the human body. (1)
- b) Differentiate between Albinism and Leucoderma (One point only)(2)

- c) Give two major functions of WHO. (2)
- d) Give reason – Nuclear power plants are very harmful. (2)
- e) In Biology practical class ,After being taught about the classification of Nonchordates , students were asked the following questions. Read the same and answer in brief. (3)
- What are Nonchordates?
 - Name the phylum whose organisms have pores on their bodies.
 - Name an organism ,belongs to phylum Arthropoda.
4. a) Define – Inflorescence . (1)
- b) Give two differences between Vasoconstriction and Vasodilation.(2)
- c) Name the Vaccines for the following diseases: (2)
- Tuberculosis
 - Polio
- d) Give the equation of Anaerobic respiration in Plants. (2)
- e) Observe the diagram and answer the questions that follows : (3)



- Identify the organism.
 - Name the Kingdom to which the above organism belongs.
 - State the mode of nutrition in the organism shown above.
5. a) Which is the longest cell of our body? (1)
- b) Differentiate between Antiseptic and Disinfectant .[Two points only] (2)
- c) Name the joints present in the following parts of the human body:(2)
- Elbow joint
 - Joint between wrist bones
- d) Give reason- Nostrils have hairs and internally lined by mucus membrane. (2)
- e) Draw the internal structure of a Bisexual Flower and label the following parts in it : (3)
- Anther
 - Stigma
 - Petal
 - Ovules

6. a) Name the causative agent of sleeping sickness. (1)
 b) Give the location and function of Ceruminous glands. (2)
 c) Name the diseases caused due to the deficiency of: (2)
 i) Vitamin C ii) Iron
 d) Give reason – most of the flowers have very well developed, showy and attractive sepals and petals. (2)
 e) Observe the figure of a Vector given below and answer the questions that follow:



- i. Name the vector shown in the figure. Name one disease spread by it. (1)
 ii. Give two ways by which we can avoid spread of diseases by this vector. (2)
7. a) Draw the following: (1)
 i. Symbol of family planning in India.
 ii. Emblem of Red Cross Society
- b) How many chambers are present in the Heart of (2)
 i) Amphibians ii) Mammals
- c) Give one example of each of the following: (2)
 i. A Nitrifying bacteria ii. A free living denitrifying bacteria.
- d) Give the Dental Formula of child (up to 2 years) (2)
- e) With the help of a well labelled diagram show the exchange of gases in an Alveolus. (3)