Slip Test - 1 :
Chapter - I : Nutritions

Time : 30 min.   **Max. Marks 12**

I. Answer the following Question   **1 × 4 = 4M**

1. We have conducted the experiment that proves the release of Oxygen when photosynthesis happens?

    a) What are the plants used for this experiment ? Where do they grow ?

    b) How did you conduct the above experiment? In which context are large number of air bubbles released ? Did you notice? *(AS–3)*

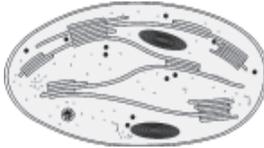**II. Answer the following Questions**   **2 × 2 = 4M**

1. What is malnutrition ? Write any two malnutrition diseases? *(AS–1)*

2. What happens to plant if the rate of respiration becomes more than the rate of photosynthesis? *(AS–2)*

III. Answer the following Questions   **2 × 1 = 2M**

1.

    Observe the given diagram. And label the parts A & B   *(AS–5)*

2. What are the enzymes that act on proteins ? *(AS–1)*

IV. Answer the following Questions   **$\frac{1}{2}$ × 4 = 2M**

1. Which is the atom is present in chlorophyll ? *(AS–5)*

2. Cyanocobalamin : B12 : : Niacin : _____

3. Fillup the flow chart

    Food $\longrightarrow$ Mouth $\longrightarrow$ Buccal Cavity $\longrightarrow$ $\boxed{?}$ $\longrightarrow$ Oesophagus

4.

    What is the life process going on in given diagram?

Slip Test - 2
Chapter - 1

Time : 30 min.   **Max. Marks 12**

I. Answer the following Question   **1 × 4 = 4M**
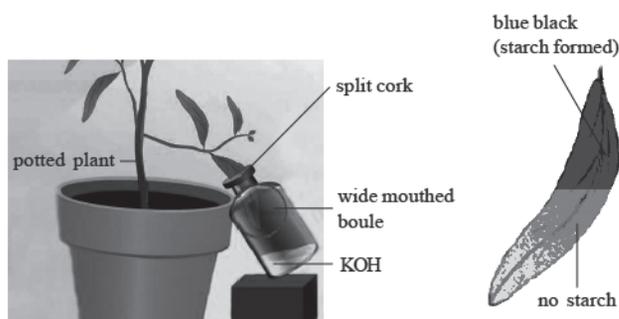
  1. Draw the labelled diabram of human digestive system. List out the parts where peristalsis takes place ?   *(AS–5)*

II. Answer the following Questions   **2 × 2 = 4M**

  1. Answer the following questions by observing the diagram showing the experiment *(AS–3)*

Mohl's half leaf experiment

    a) What will you prove by this Experiment ?

    b) Why do we use KOH solution in this Experiment ?

  2. Write the differences between light reaction and dark reaction ?   *(AS–1)*

III. Answer the following Questions   **1 × 2 = 2M**

  1. List out the fat soluble vitamins ?   *(AS–1)*

  2. What questions will you ask a doctor to know about constipation ?   *(AS–2)*

IV. Answer the following Questions $\frac{1}{2} \times 4 = 2M$

  1. Haemoglobin : Iron : : Chlorophyll : _____

  2. The inner surface of the small intestine having food absorption structure is called _____

  3. The end product of the photosynthesis _____

  4. Identify the mismatched pair

    a) Liver - Lipase

    b) Pancreas - Trypsin

Slip Test - 3
Chapter - II : Respiration

Time : 30 min.   **Max. Marks 12**

I. Answer the following Question   **1 × 4 = 4M**

   1. Write the differences between photosynthesis and respiration ?   *(AS–1)*

II. Answer the following Questions   **2 × 2 = 4M**

   1. Observe the given table and answer the given questions ?   *(AS–4)*

Gas	% in inhaled air	% in exhaled air
Oxygen	21	16
Carbondioxide	0.03	4.4
Nitrogen	78	78

     a) What has raised the percentage of CO_2 in exhaled air ?

     b) Percentage of Nitrogen have no change ? Why ?

   2. Draw the neat labeled diagram of "Mitochondria"?   *(AS–5)*

III. Answer the following Questions   **2 × 1 = 2M**

   1. When we preserve idly and dosa dough at our home, We will notice the smell of alcohol. Which microorganism is caused that smell ?   *(AS–2)*

   2. Cellular respirtion 2 types

               Aerobic respiration

                _____?_____   Fillup the blank   *(AS–5)*

IV. Answer the following Questions   **$\frac{1}{2}$ × 4 = 2M**

   1. Each ATP molecule have _____ calories of energy.

   2. The muscle layer separates the thoracic and abdominal cavities is known as _____

   3. In margrove plants we observe some special structures for respiration, that structures are known as _____

   4. Stomata play a major role in gaseous exchange. Without stomata which cells have play the gases exchange ?

Slip Test - 4
Chapter - II

Time : 30 min.   **Max. Marks 12**

I. Answer the following Question   **1 × 4 = 4M**

1. What procedure do you follow to understand anaerobic respiration in your school laboratory?

(AS–3)

II. Answer the following Questions   **2 × 2 = 4M**

1. Draw a neat diagram to explain the exchange of gases between lung and blood capillaries.

(AS–5)

2. What happens if diaphragm is not there in the body?   *(AS–2)*

III. Answer the following Questions   **1 × 2 = 2M**

1. What is fermentation ?   *(AS–1)*
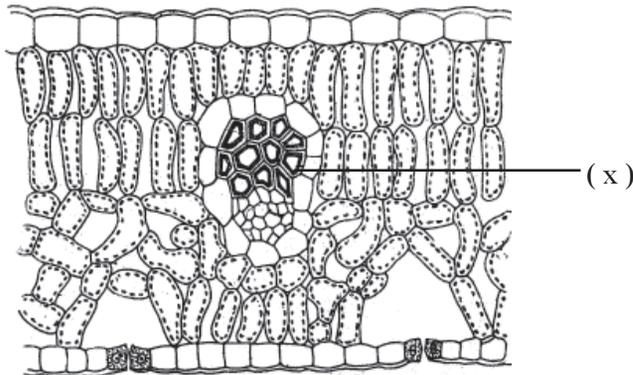
2. What are the end products of aerobic respiration ?   *(AS–1)*

IV. Answer the following Questions   **$\frac{1}{2}$ × 4 = 2M**

1. What are the animals can respire through cutaneous and pulmonary respirtion ?

2. $C_6H_{12}O_6 + 6O_2 \longrightarrow 6CO_2 + 6H_2O + 686$ Cal energy What indicates this equation.

3. I am a muscular valve in the pharynx. Controls movement of air and food towards their respective passages. Who am I ?

4.

Identify the part (x) in given diagram ?

Slip Test - 5
Chapter - III : Transportation

Time : 30 min.   **Max. Marks 12**

I.   Answer the following Question   **1 × 4 = 4M**

   1. Explain the way how plants get water by osmosis through root hair ?   *(AS–1)*

II. Answer the following Questions   **2 × 2 = 4M**

   1. Observe the given diagram and answer the given questions ?   *(AS–5)*

   Fig Page No. 59

   1) What idicates the given diagram ?

   2) Which type of blood flows in part - A

   3) Which is the name of the blood vessel part - B

   4) Which type of blood flowes in part - C

   2. Vinod prepared stethoscope with paper cup and plastic tube. Write down the procedure of preparation ?   *(AS–3)*

III. Answer the following Questions   **2 × 1 = 2M**

   1. What are the uses of blood platelets?   *(AS–1)*

   2. What questions you pose to a doctor to know about blood pressure?   *(AS–3)*

IV. Answer the following Questions $\frac{1}{2}$ **× 4 = 2M**

   1. Write name of the cells present in vascular bandles ?

   2. Biologists studied about phloem tubes with the help of _____

   3.

   Fig Page No. 56

   Identify the given diagram _____

   4. The healthy young adult blood pressure is _____

Slip Test - 6
Chapter - III

I. Answer the following Question   **1 × 4 = 4M**

   1. Draw the neat labelled diagram of Internal Structure of heart ?   *(AS–5)*

II. Answer the following Questions   **2 × 2 = 4M**

   1. What is root pressure? How it is useful to the plant?   *(AS–1)*

   2. Which instrument prepared to know pulse rate in your class ?

      Write the procedure of it?   *(AS–3)*

III. Answer the following Questions   **1 × 2 = 2M**

   1. Which is the largest artery in our body? Why it is big in size ?   *(AS–2)*

   2. Write the main difference betwee plasma and serum ?   *(AS–1)*

IV. Answer the following Questions $\frac{1}{2} × 4 = 2M$

   1. Prothrombin $\xrightarrow{\quad ?\quad}$ Thrombin (Fill of the blank)

   2. One person blood pressure is $\dfrac{120}{80}$ in this 120 indicates _____

   3. Because of genetic disorder the blood may not coagulate. This type of disorder is called ___

   4. Identify the correct pair

      a) Water _____ Xylum

      b) Vitamin E _____ blood not coagulated

Slip Test - 7
Chapter - IV : Excretion

I. **Choose the correct answer and put it in brackets** $4 \times \frac{1}{2}$ = 2M

   1. Bowman's capsule and Glomerulus together called _____   (   )

      a) Renal Vein   b) Calyces   c) Malpighian body   d) renal tubule

   2. Excessive, repeated, dilute urination is due to deficiency of _____ harmone.   (   )

      a) Growth hormone b) Vasopressin   c) Adrenalin   d) Thyroxine

   3. Which is not "Secretion" among the following ?   (   )

      a) enzyme   b) hormone   c) Saliva   d) tears

   4. Bio diesel extracted from _____ plant   (   )

      a) Neem   b) jatropa   c) Tamarind   d) pinus

II. **Answer the following in one sentence _____** 2×1 = 2M

   5. What are the excretory organs in Insects ?   *(AS–6)*

   6. What are the "gum" yeilding plants in your area ?   *(AS–6)*

III. **Answer the following in brief _____** 2×2 = 4M

   7. Differentiate between primary metabolites and secondary metabolities?   *(AS–1)*

   8. What is the need of excretion in animlas ?   *(AS–1)*

IV. **Explain in detail** 1×4 = 4M

   9. Draw the labelled diagram of structural and functional unit of human kidney?   *(AS–5)*

Slip Test - 8
Chapter - IV : Excretion

I.   **Choose the correct answer and put it in brackets** $4 \times \frac{1}{2}$ = 2M

1.   The main nitrogenous substance in our urine is _____   (   )

   a) Water   b) urea   c) uric acid   d) Ammonia

2.   Rubber is produced from the Latex of _____ plant   (   )

   a) Heavea   b) Jatropa   c) Sapota   d) Caltropis

3.   The alkoloid present in Datura is _____   (   )

   a) Quinine   b) Nimbin   c) Scopolamine   d) Nicotine

4.   Amber colour to urine due to ____   (   )

   a) bilerubine   b) bileverdine   c) chlorine   d) Urochrome

II.   **Answer the following in one sentence _____** 2×1 = 2M

5.   Expand DCT ?   *(AS–1)*

6.   What are the substances re-observed by the PCT?   *(AS–3)*

III.   **Answer the following in brief _____** 2×2 = 4M

7.   Differentiate between excretion & Secretion ?   *(AS–1)*

8.   Write Slogans about organ donation to motivate people ?   *(AS–6)*

IV.   **Explain in detail** 1×4 = 4M

9.   Draw the diagram showing uretur, urinary bladder, urethra etc ?   *(AS–5)*

Slip Test - 9

Chapter - V : Co-ordination

I. **Choose the correct answer and put it in brackets** $4 \times \frac{1}{2}$ = 2M

    1. A point of contact between two neurons is _____   (   )

        a) Synopse   b) ganglia   c) nerve junction   d) Inter neuron

    2. The part of the brain that helps you in solving puzzles is _____   (   )

        a) Cerebellum   b) mid brain   c) Cerebrum   d) medulla

    3. Male behaviour occur due to _____   (   )

        a) Estrogen   b) Testosterone   c) LH   d) FSH

    4. The specialised cell organelles present in the Nerve cell is _____   (   )

        a) dendrites   b) axon   c) myelin   d) Nissal granules

II. **Answer the following in one sentence _____** 2×1 = 2M

    5. What is meant by thigmotropism ?   *(AS–1)*

    6. Give some examples to involuntary actions in our body ?   *(AS–6)*

III. **Answer the following in brief _____** 2×2 = 4M

    7. How can you prove phototropism ?   *(AS–3)*

    8. What are the main functions of cerebellum ?   *(AS–1)*

IV. **Explain in detail** 1×4 = 4M

    9. Draw the diagram of Human Brain and label the parts ?   *(AS–5)*

Slip Test - 10

Chapter - V : Co-ordination

Time : 30 min.   **Max. Marks 12**

I. Choose the correct answer and put it in brackets $4 \times \frac{1}{2}$ = 2M

1. _____ Hormone is responsible for metabolism   ( )

    a) Thyroxin   b) Oxytocin   c) FSH   d) LH

2. The following is not plant Hormone __   ( )

    a) Auxin   b) cytokinin   c) Ethylene   d) Adrenalin

3. The leaves of "touch me not" plant are folded when we touch them, because of ___ ( )

    a) Phototropism   b) hydrotropism   c) Nastic movements   d) geotropism

4. The number of peripheral nerves in our body _____   ( )

    a) 31 pairs   b) 43 pairs   c) 12 pairs   4) 41 pairs

II. Answer the following in one sentence _____ 2×1 = 2M

5. Name the different neurons in our body ?   *(AS–1)*

6. How brain is protected from shocks and injuries ?   *(AS–3)*

III. Answer the following in brief _____ 2×2 = 4M

7. What happens if all the functions of the human body is controlled only by brain?   *(AS–6)*

8. Write a brief notes on any two phyto hormones?   *(AS–1)*

IV. Explain in detail 1×4 = 4M

9. Draw the diagram showing the following parts?

    a) cyton   b) Axon   c) dendrites   d) Nissal granules   *(AS–5)*

Slip Test - 11

Chapter - VI : Reproduction

Time : 30 min.   **Max. Marks 12**

I. Choose the correct answer and put it in brackets $4 \times \frac{1}{2}$ = 2M

    1. Propagation through leaves take place in _____   (   )

       a) Bryophyllum   b) D'ahlia   c) Allium   d) Strawberry

    2. Most of the "fungi" propagate through _____   (   )

       a) Seed   b) spores   c) hyphae   d) roots

    3. The main reproductive organs in Human Male are _____   (   )

       a) epididymis   b) Seminal ducts   c) Vas deference   d) Testis

    4. 3 months of "embryo" is known as _____   (   )

       a) zygote   b) developed embryo   c) Foetus   d) Gastrula

II. Answer the following in one sentence _____   2 × 1 = 2M

    5. Where "Fertilization" take place in humans ?   *(AS–1)*

    6. Define stock & Scion ?   *(AS–4)*

III. Answer the following in brief _____   2 × 2 = 4M
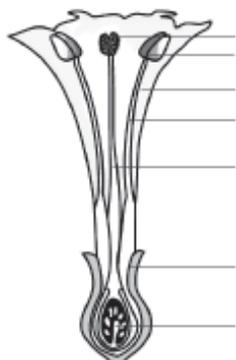
    7. What are the main functions of Acrosome and tail of "Spermatozoon"   *(AS–1)*

    8. Write a brief notes on different modes of asexual reprodutction?   *(AS–1)*

IV. Explain in detail   1 × 4 = 4M

    9.   *(AS–5)*

    a) Name the parts A, B, C, D ?

    b) What are the essential parts of a flower ?

    c) After fertilization which part of a flower become seed ?

Slip Test - 12

Chapter - VI : Reproduction

Time : 30 min.   **Max. Marks 12**

I. **Choose the correct answer and put it in brackets** $4 \times \frac{1}{2} = 2M$

    1. Match the following   (   )

        1. Bulb   a) Potato

        2. tubers   b) Ginger

        3. Rhizome   c) Onion

        a) 1c 2b 3a   b) 1a 2b 3c   c) 1c 2a 3b   d) 1b 2a 3c

    2. The dot like structures of sporophyll in Fern are called   (   )

        a) Spores   b) Sporangia   c) Condia   d) compund leaf

    3. The release of egg or ovam from the ovary is called _____   (   )

        a) Fertilization   b) Ovulation   c) implantation   d) menarche

    4. The number of cells present in a Female gametophyte _____   (   )

        a) 5   b) 6   c) 7   d) 8

II. **Answer the following in one sentence _____** $2 \times 1 = 2M$

    5. What are the embryonic membranes in Humans ?   *(AS–1)*

    6. What is the gestation period in Humans ?   *(AS–1)*

III. **Answer the following in brief _____** $2 \times 2 = 4M$

    7. Explain the process of Grafting ?   *(AS–3)*

    8. What are the changes take place in 'S' phase of cell cycle & G_2 phase ?   *(AS–6)*

IV. **Explain in detail** $1 \times 4 = 4M$

    9. Draw the labelled diagram of human female reproductive system?   *(AS–5)*

Slip Test - 13

Chapter - VII : Coordination in life process

Time : 30 min.   **Max. Marks 12**

I. **Choose the correct answer and put it in brackets** $4 \times \frac{1}{2} = 2M$

   1. Hunger pangs starts due to secretion of _____ hormone   (   )

      a) Ghrelin   b) leptin   c) saliva   d) digestive enzymes

   2. The long tube that connects pharynx and stomach is known as   (   )

      a) duodenum   b) oesophagus   c) small intestine   d) rectum

   3. The finger like projections in the small intestine are called _____   (   )

      a) Walls   b) Villi   c) glands   c) chyme

   4. Movements of muscles in the jaw during mastication controlled by _____   (   )

      a) Diencephalon   b) 5th cranial nerve c) Vagus nerve   d) medulla

II. **Answer the following in one sentence _____** $2 \times 1 = 2M$

   5. What do you understand by propulsion ?   *(AS–1)*

   6. What are the systems involved in digestion process ?   *(AS–6)*

III. **Answer the following in brief _____** $2 \times 2 = 4M$

   7. Draw the diagram that "obsorption" take place in digestion ?   *(AS–5)*

   8. Why "Gut" is consider as "Second brain" ?   *(AS–6)*

IV. **Explain in detail** $1 \times 4 = 4M$

   9. Name the different teeth, their number, shape, function in a ____ tabular form?   *(AS–6)*

Slip Test - 14
Chapter - VII : Coordination in life process

Time : 30 min.   **Max. Marks 12**

I. **Choose the correct answer and put it in brackets.** $4 \times \frac{1}{2}$ = 2M

    1. Humber pangs supressed by _____   (   )

       a) ghrelin   b) leptin   c) saliva   d) Enzymes

    2. When the tongue is pressed against the _____ we can able to know the taste   (   )

       a) teeth   b) lips   c) cheeks   d) palate

    3. Sphincter that helps in opening of stomach into duodenum _____   (   )

       a) anal   b) Gastric   c) pyloric   c) Cardiac

    4. Partially digested food that turns into porridge like consistency called _____   (   )

       a) Bolus   b) chyme   c) mucus   d) khima

II. **Answer the following in one sentence _____** 2×1 = 2M

    5. What do you understand by the term Retropulsion ?   *(AS–1)*

    6. Name the parts of Alimentary Canal that are shows peristalsis ?   *(AS–3)*

III. **Answer the following in brief _____** 2×2 = 4M

    7. Ravi want to eat "banana". What are the teeth involved in eating a banana ?   *(AS–6)*

    8. Differentiate between Mastication and rumination ?   *(AS–1)*

IV. **Explain in detail** 1×4 = 4M

    9. Explain the process "action of Saliva on flour" ?   *(AS–5)*

Slip Test – 15

Heredity

I. $4 \times \frac{1}{2} = 2M$

    1. What is the phenotypic ratio of monohybrid cross ?

    2. Who discovered structures of DNA

    3. Identified the mismatched pairs

       a) The orgin of species - Darwin

       b) Principles of Geology - Charless Lyel

         Acquired Characters - Mendal

    4. Complete the blank

       a) The scientific name of human is _____

       b) The study of Fossils is _____

II. 5. Who is known as Father of Genetics ? $2 \times 1 = 2M$

    6. Name the chromosomes that determine sex in human beings.   *(AS–3)*

III. 7. Fill the given Table and write phonotypic and genotypic ratio basing on Table $2 \times 2 = 4M$

	T	t
T		
t		

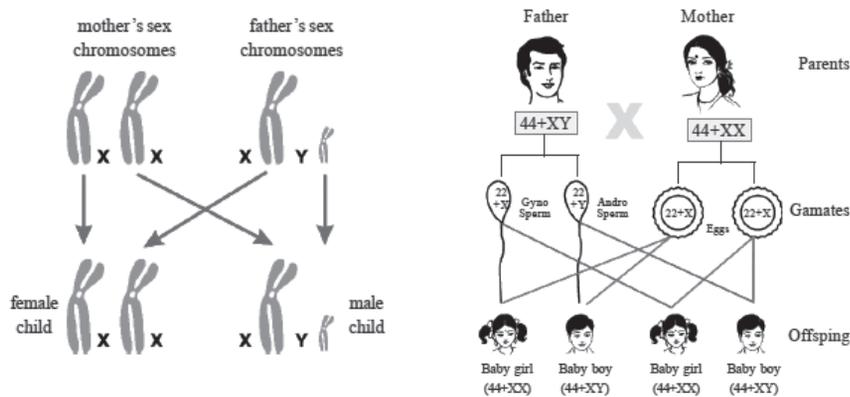   8. Write briefly on Darwing theory of Evolution.   *(AS–1)*

IV. 9. Sex determination in Human beings diagram $1 \times 4 = 4M$

    a) Who decides the sex of the baby ?

    b) What will happen if the sperm containg Y chromosome fertilizes with ovum?

    c) How many chromosomes are present in Human beings?

    d) What does the given Flow Chart indicate ?

Time : 30 min.   **Max. Marks 12**

I. $4 \times \frac{1}{2} = 2M$

1. Can you name the extinct connecting link between Aves and Reptiles?
2. Complete the blanks

   Darwin made his experiments on _____ in _____ is lands.
3. Iam the branch of science that deals with the Fossils <u>who am I</u> ?
4. Identify the mismatched pair

   a) Homologous _____ man, Whale, Bat

   b) Fessils _____ Palynology

   c) Experiments on Traits _____ Augustus Weisman

II. $2 \times 1 = 2M$

5. What is phenotype ratio and Genotype ratio ?
6. Why Mendel selected pea plant for his experiments ?   *(AS–3)*

III. $2 \times 2 = 4M$

7. Write briefly on Lamarckism?
8. How Homologous organ differs with Analogous organs.   *(AS–1)*

IV. $1 \times 4 = 4M$

9. Explain Monohybrid Experiment with an example which law of inheritance can be understand.

Our Environment

I. $4 \times \frac{1}{2} = 2M$

1. What is Biosphere ?
2. Ecosystem : Tansely : : Ecological pyramid : _____ ?
3. The functional role of an organism in a community is called _____
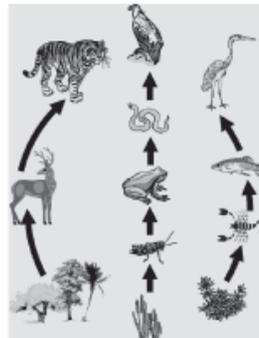4. Find out the missing thing from the table.

Type of Dynamic	Base
a) Pyramid of Number	a) Number of organism
b) _____	b) Fow of energy

II. $2 \times 1 = 2M$

5. Identify any one food chain from your surroundings?
6. Why pyramid of Biomass inverted in Aquatic Ecosystem.

III. $2 \times 2 = 4M$

7. Observe the diagram and write the various food chains present in it?

8. Mention any four effective methods controlling to protection and conservation of environment.

IV. $1 \times 4 = 4M$

9. Observe the following pyramid of Biomass and answer the following questions.

   a) How much Biomass lost at each step?

   b) Where do producers get energy from ?

   c) Give examples for Primary consumers ?

   d) Why the Biomass is decreasing?

Time : 30 min.   **Max. Marks 12**

I. $4 \times \frac{1}{2} = 2M$

    1. I am the universal food provider. Every food chain starts with me who am I ?

    2. Plant $\longrightarrow$ Insect $\longrightarrow$ Frog $\longrightarrow$ ☐

    3. Name the scientist who introduced Ecological pyramids?

    4. Identified mismatched pair

       a) Eco friendly - crop rotation

       b) Biomagnification - DDT

       c) Biological control - Introduce natural predators.

II. $2 \times 1 = 2M$

    5. Suggest any two alternative methods in place of particles to protect crops?

    6. Write the difference between foodchain and food web?

III. $2 \times 2 = 4M$

    7. Grass $\longrightarrow$ Grass hopper $\longrightarrow$ Frog $\longrightarrow$ Snake.

       Draw the pyramid of biomas.

    8. Write a short notes on conducting Eco friendly activities in your school?

IV. $1 \times 4 = 4M$

    9. Define Ecological pyramid ? Describe different types of Ecological Pyramids.

Slip Test – 19

I. $4 \times \frac{1}{2} = 2M$

1. Expand IUCN

2.

    What does the above logo indicate

3. I am a plant my seeds are used for production of Bio fuel who am I ?

4. The given logo indicates

SUSTAINABLE DEVELOPMENT

II. $2 \times 1 = 2M$

5. What is sustainable development ?

6. Give an example for Recycle.

III. $2 \times 2 = 4M$

7. Write briefly about natural resources ?

8. Write any four slogans on conservation of Natual Resources?

IV. $1 \times 4 = 4M$

9. Write about the 4R's neede for the protection and conservation of Environment?

I. $4 \times \frac{1}{2} = 2M$

   1. Expand AIDS ?

   2. Write Human Dental Formula ?

   3. Plura : Luns : : Heart :

   4. I am the deficiency of proteins who am I ?

II. $2 \times 1 = 2M$

   5. How to avoid Edime

   6. Name the endocrine gland consider as 'master gland' why ?

III. $2 \times 2 = 4M$

   7. What is Green House effect ?

   8. Suggest various Birth Control methods ?

IV. $1 \times 4 = 4M$

   9. Describe briefly about Darwinism.