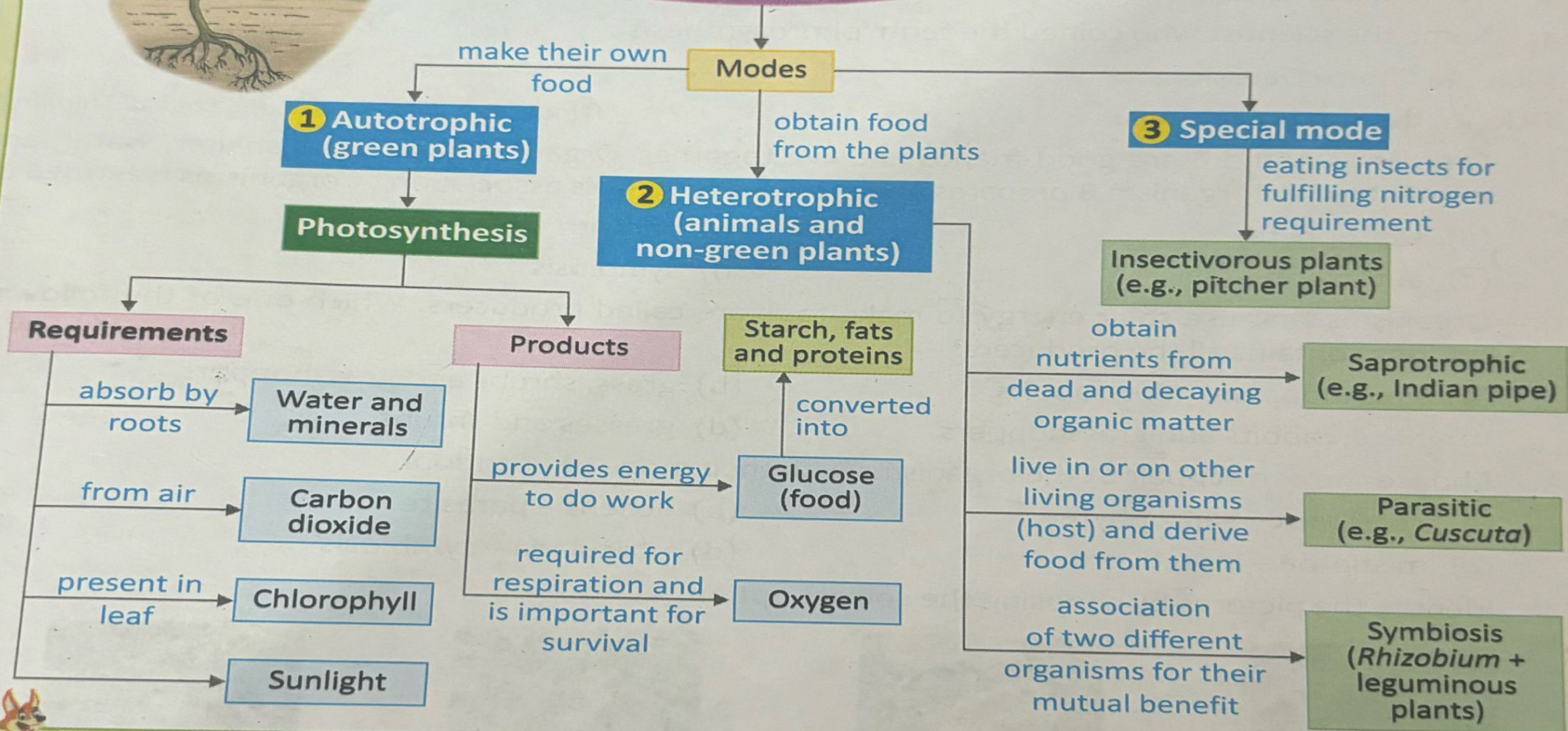


(process of taking in food by an organism and its digestion, absorption and utilisation by body)

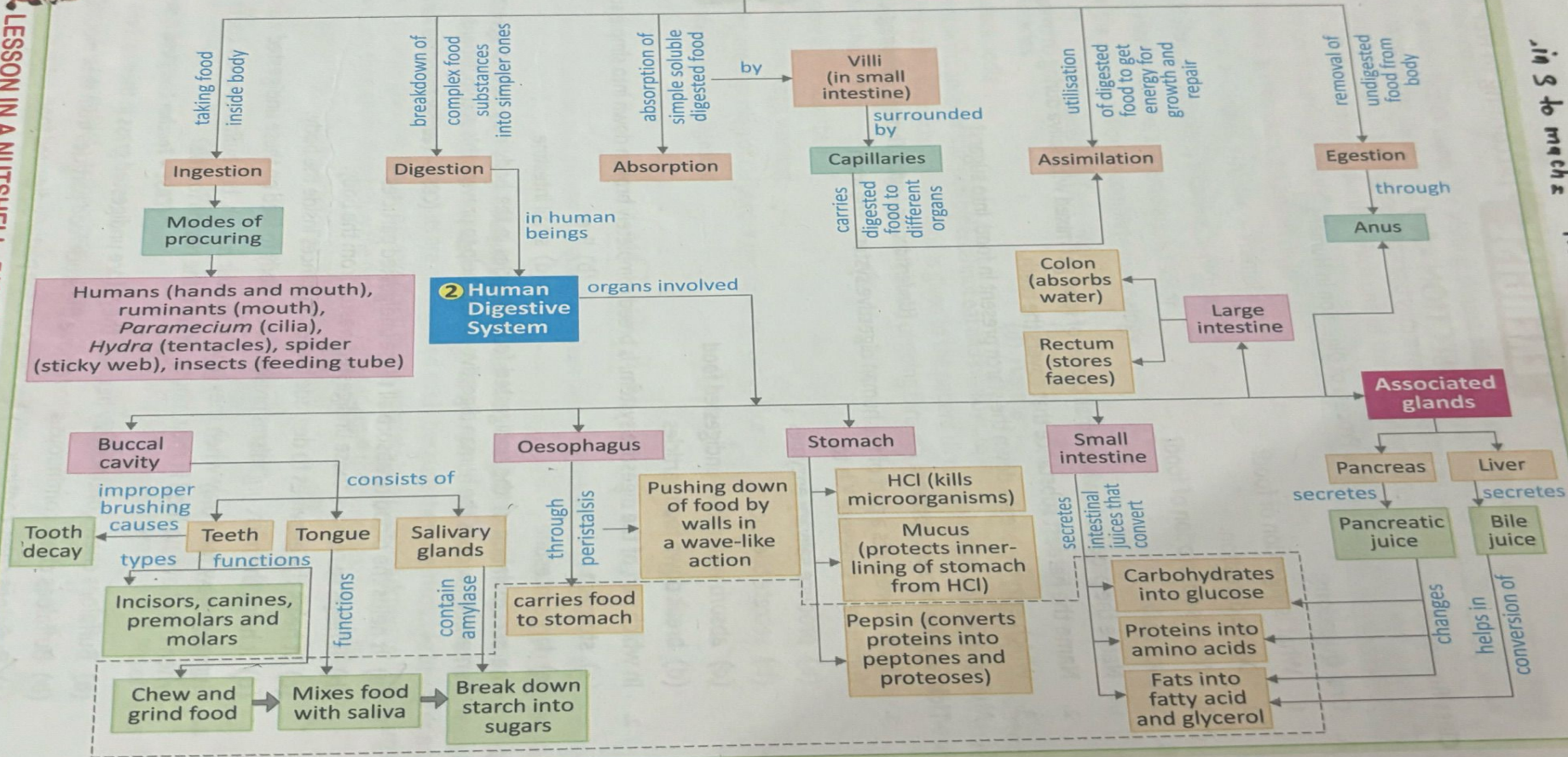


CONCEPT MAP FOR REVISION – NUTRITION IN ANIMALS

(Self/Peer Assessment– NEP Guidelines)

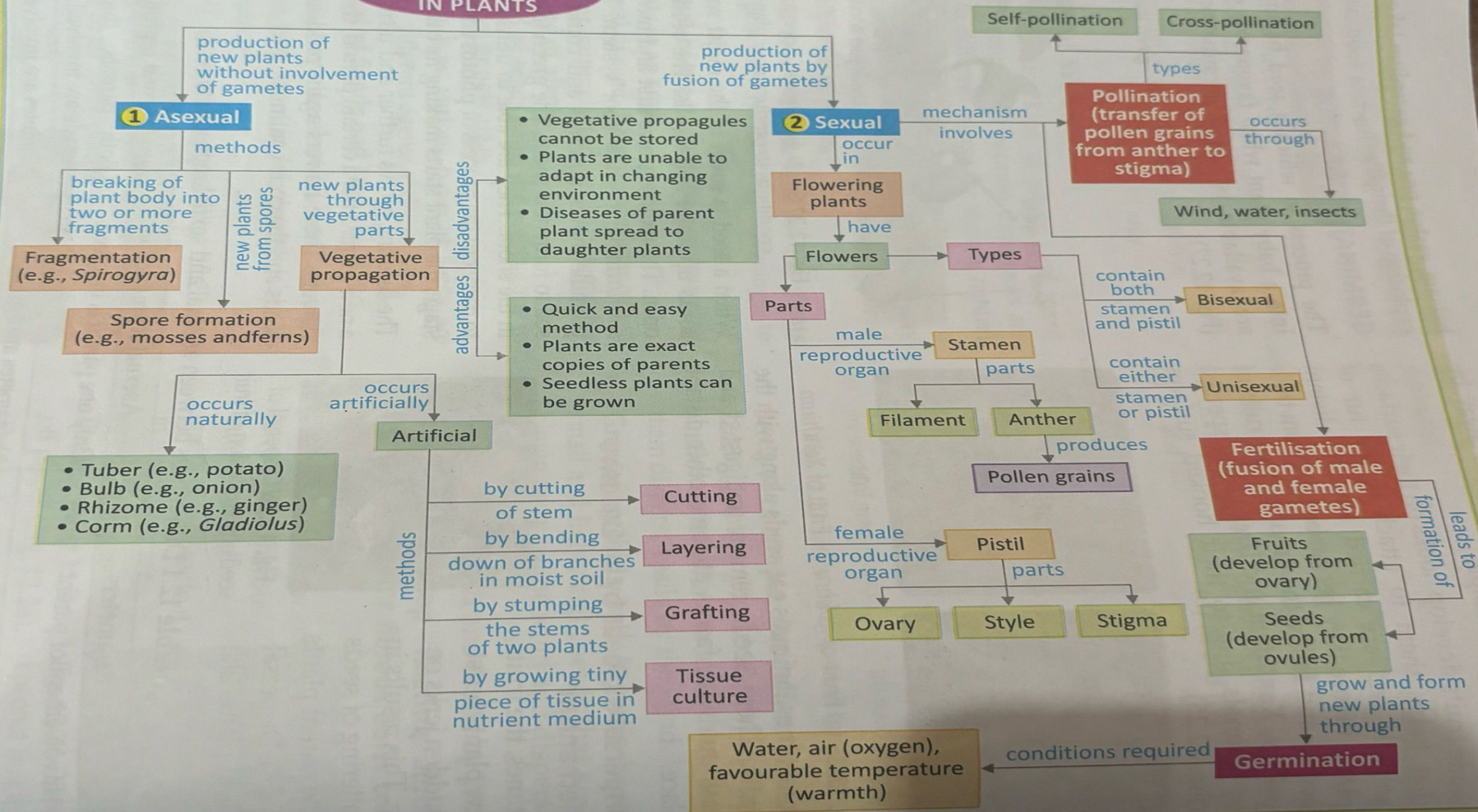
1 Steps

NUTRITION IN ANIMALS



REPRODUCTION IN PLANTS

(Self/Peer Assessment- NEP Guidelines)



Which one of the following is a true fish as per the biological system of classification?

(a) Silverfish

(b) Jellyfish

(c) Cuttlefish

(d) Flying fish

In which one of the following types of connective tissues in animals does fat get stored?

- (a) Adipocyte
- (b) Chondrocyte
- (c) Osteocyte
- (d) Reticulocyte

Which one of the following pairs about organ/part that helps in locomotion is **not** correctly matched?

(a) Euglena : Flagellum

(b) Paramecium : Cilia

(c) Nereis : Pseudopodia

(d) Starfish : Tube feet

Lysosome is formed from which of the following cell organelles?

- (a) Nucleus
- (b) Endoplasmic reticulum
- (c) Golgi bodies
- (d) Ribosomes

A protein is synthesized in the endoplasmic reticulum bound ribosomes and it targets to the inner thylakoid space of chloroplast. How many double-layered membrane layers it has to pass to reach its destination?

(a) 2

(b) 3

(c) 4

(d) 5

27. Match List-I with List-II and select the correct answer using the code given below the Lists :

List-I
(Hypothesis/Theory)

List-II
(Propounder)

- | | |
|------------------------------------|---------------|
| A. Planetesimal hypothesis | 1. Kober |
| B. Thermal contraction theory | 2. Chamberlin |
| C. Geosynclinal Orogen theory | 3. Daly |
| D. Hypothesis of sliding continent | 4. Jeffreys |

Code :

(a) A B C D
 2 4 1 3

(b) A B C D
 2 1 4 3

(c) A B C D
 3 1 4 2

(d) A B C D
 3 4 1 2

Which one of the following statements about lymph is correct?

- (a) Lymph is formed due to leakage of blood through capillaries.
- (b) Lymph contains blood cells such as RBC.
- (c) Lymph is also circulated by the blood circulating heart.
- (d) Lymph only transports hormones.

Which of the following classes of animals has/have three-chambered heart?

- (a) Pisces and Amphibia
- (b) Amphibia and Reptilia
- (c) Reptilia only
- (d) Amphibia only

Accumulation of which one of the following in the muscles of sprinters leads to cramp?

- (a) Lactic acid
- (b) Ethanol
- (c) Pyruvic acid
- (d) Glucose

Which one of the following functions is **not** carried out by smooth endoplasmic reticulum?

- (a) Transport of materials
- (b) Synthesis of lipid
- (c) Synthesis of protein
- (d) Synthesis of steroid hormone

Which one of the following tissues is responsible for increase of girth in the stem of a plant?

- (a) Tracheid
- (b) Pericycle
- (c) Intercalary meristem
- (d) Lateral meristem

Which one of the following has a bilateral symmetry in its body organization?

- (a) *Asterias*
- (b) Sea anemone
- (c) *Nereis*
- (d) *Echinus*

Which one of the following pairs of animals is warm-blooded?

- (a) Crocodile and Ostrich
- (b) Hagfish and Dogfish
- (c) Tortoise and Ostrich
- (d) Peacock and Camel

Which one of the following statements regarding histone proteins is correct?

- (a) Histones are proteins that are present in mitochondrial membrane.
- (b) Histones are proteins that are present in nucleus in association with DNA.
- (c) Histones are proteins associated with lipids in the cytosol.
- (d) Histones are proteins associated with carbohydrates in the cytosol.

Which one of the following statements regarding haemoglobin is correct?

- (a) Haemoglobin present in RBC can carry only oxygen but not carbon dioxide.
- (b) Haemoglobin of RBC can carry both oxygen and carbon dioxide.
- (c) Haemoglobin of RBC can carry only carbon dioxide.
- (d) Haemoglobin is only used for blood clotting and not for carrying gases.

Some statements about the benefits of organic farming are given below. Indicate whether they are true or false using the code given below the statements :

1. It reduces CO₂ emission.
2. It does not lead to toxic effect.
3. It improves the water-retention capacity of the soil.

Code :

(a)	1	2	3
	False	True	False

(b)	1	2	3
	True	False	False

(c)	1	2	3
	False	True	True

(d)	1	2	3
	True	True	True

Which one of the following chemicals is commonly used by farmers to destroy weeds?

(a) DDT

(b) Malathion

(c) Methyl bromide

(d) 2,4-D

Which one among the following plants **cannot** be multiplied by cuttings?

- (a) Rose
- (b) Bryophyllum
- (c) Banana
- (d) Marigold

67. Which one of the following is the best nutrient to prevent bleeding of gums, loosening of teeth and poor wound healing?

- (a) Ascorbic acid
- (b) Folic acid
- (c) Iodine
- (d) Zinc

68. After drinking alcohol, a person walks clumsily because, the alcohol affects his

- (a) Cerebellum
- (b) Cerebrum
- (c) Medulla oblongata
- (d) Spinal cord

69. The deficiency of which one of the following vitamins causes delayed clotting of blood and haemorrhaging ?

- (a) Vitamin A
- (b) Vitamin C
- (c) Vitamin E
- (d) Vitamin K

85. Cellulose is made up of units of

- (a) Fructose
- (b) Galactose
- (c) Glucose
- (d) Maltose

86. Which one of the following hormones is required for the retention of sodium ions by the human body ?

- (a) Aldosterone
- (b) Parathormone
- (c) Somatotropin
- (d) Thyroxin

87. From the evolutionary point of view which one among the following is the most primitive animal in comparison to the other three ?

- (a) Roundworm
- (b) Spider
- (c) Prawn
- (d) Snail

92. Glycolysis takes place in

- (a) Photosynthesis
- (b) Aerobic respiration only
- (c) Anaerobic respiration only
- (d) Both Aerobic and Anaerobic respiration

65.What causes the mottling of the dental enamel ?

- (a) High levels of chlorine in the water
- (b) High levels of nitrate in the water
- (c) High levels of fluoride in the water
- (d) High levels of calcium in the water

63.Which of the following are water-borne diseases ?

1. Viral Hepatitis B 2. Cholera

3. Typhoid fever 4. Amoebiasis Select the correct answer using the code given below:

- (a) 1 and 2 only (b) 1, 2 and 3
- (c) 1 and 4 only (d) 2, 3 and 4

1. Where is the national institute of nutrition located?

- (a) Bengaluru (b) Hyderabad
- (c) Mysuru (d) Pune

2. Which of the following parts of blood carry out the function of body defence ?

- (a) Red blood cells (b) White blood cells
- (c) Platelets (d) Haemoglobins

Which one of the following is the correct sequence of passage of light in a compound microscope?

- (a) Condenser—Objective lens—Eye-piece—Body tube
- (b) Objective lens—Condenser—Body tube—Eyepiece
- (c) Condenser—Objective lens—Body tube—Eyepiece
- (d) Eyepiece—Objective lens—Body tube—Mirror

Which one of the following statements is correct?

- (a) Urea is produced in liver.
- (b) Urea is produced in blood.
- (c) Urea is produced from digestion of starch.
- (d) Urea is produced in lung and kidney.

Which one of the following organisms is dependent on saprophytic mode of nutrition?

(a) *Agaricus*

(b) *Ulothrix*

(c) *Riccia*

(d) *Cladophora*

Which one of the following acids is also known as Vitamin C ?

- (a) Methanoic acid**
- (b) Ascorbic acid**
- (c) Lactic acid**
- (d) Tartaric acid**

3.Match List-I with List-II and select the correct answer using the codes given below the Lists:

List-I

List-II

(Disease)

(Part of Human Body Affected)

A. Conjunctivitis

1. Eyes

B. Dermatitis

2. Joints

C. Gout

3. Skin

D. Meningitis

4. Cord

Codes:

A B C D

(a) 2 4 1 3

(b) 1 3 2 4

(c) 2 3 1 4

(d) 1 4 2 3

4.Which one of the following is not an insect borne disease ?

(a) Beriberi (b) Kala azar

(c) Malaria (d) Plague

Which one of the following is ***not*** found in animal cells ?

- (a) Free ribosomes
- (b) Mitochondria
- (c) Nucleolus
- (d) Cell wall

Which one of the following body parts/organs of the human body does **not** have smooth muscles ?

- (a) Ureters
- (b) Iris of eye
- (c) Bronchi of lungs
- (d) Biceps

Which one of the following cell organelles is known as 'suicide bags' of a cell ?

- (a) Lysosomes**
- (b) Plastids**
- (c) Endoplasmic reticulum**
- (d) Mitochondria**

Chlorophyll in photosynthetic prokaryotic bacteria is associated with

- (a) plastids**
- (b) membranous vesicles**
- (c) nucleoids**
- (d) chromosomes**

Which one of the following is active transport ?

- (a) It is the movement of a substance against a diffusion gradient with the use of energy from respiration.
- (b) It is the movement of a substance against a diffusion gradient without the use of energy.
- (c) It is the movement of a substance against a diffusion gradient with the use of energy from photosynthesis.
- (d) It is the movement of a substance along a diffusion gradient with the use of energy from respiration.

Which one of the following organisms is responsible for sleeping sickness ?

- (a) *Leishmania*
- (b) *Trypanosoma*
- (c) *Ascaris*
- (d) *Helicobacter*

***Marsilea*, Fern and Horse-tail are examples of which one of the following plant groups ?**

- (a) Pteridophyta**
- (b) Bryophyta**
- (c) Gymnosperms**
- (d) Angiosperms**

Food chain is

- (a) relationship between autotrophic organisms**
- (b) exchange of genetic material between two organisms**
- (c) passage of food (and thus energy) from one organism to another**
- (d) modern entrepreneur establishment providing food outlets**

Piramal Life Science is a/an

- (a) life insurance company
- (b) drug research company
- (c) SEZ (Special Economic Zone)
- (d) PSU dealing with healthcare amenities

Tips of leaves in grasses and common garden plants show water drops in early morning hours. This water accumulation is obtained from

- (a) atmosphere
- (b) stomata
- (c) vascular bundles
- (d) hydathodes

61. DPT vaccine is given to children to immunize them against

- (a) diphtheria, whooping cough and tetanus
- (b) diphtheria, whooping cough and tuberculosis
- (c) diarrhoea, whooping cough and typhoid
- (d) diarrhoea, polio and tetanus

Which one of the following plants is popularly grown along the road for absorbing vehicular pollutants?

- (a) Nerium
- (b) Neem
- (c) Bougainvillea
- (d) Calotropis

If excess fertilizer is applied to a plant without water, the plant will

- (a) be stunted in growth
- (b) develop modifications
- (c) die due to plasmolysis
- (d) remain unaffected