

**KV NDA PUNE**

**PERIODIC TEST -1 2018-19**

**CLASS - X SUB:- SCIENCE MARKING SCHEME MM-40 SET 2**

Ans 1. Removal of xylem will stop the conduction of water in plants. 1.

Ans 2. Spinal cord. 1.

Ans 3. Soil B to b treated with powdered chalk to adjust its pH as it is more acidic. 2.

Ans 4. Formic or methanoic acid. To get relief from discomfort a base (baking soda) can be used to neutralise the effect of acid. 2.

Ans 5. Olfactory indicators are the substances whose odour changes in acidic or basic media. Examples are onion, vanilla, clove. 2

Ans 6. Danger signals are red in colour as red light has the longer wavelength and is refracted very less and so can reach the eyes in fog, smog conditions also. 2.

Ans 7. (1) Growth hormone. (2) Insulin. 2.

Ans 8. (a)  $\text{Na}_2\text{CO}_3 + \text{HCl} \rightarrow \text{NaCl} + \text{NaHCO}_3$ .

(b)  $\text{NaHCO}_3 + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O} + \text{CO}_2$ .

(c)  $\text{Cu}_2\text{SO}_4 + \text{KI} \rightarrow \text{Cu}_2\text{I}_2 + \text{I}_2 + \text{K}_2\text{SO}_4$ . 3.

Ans 9. Real image---can be taken on screen, formed by actual meeting of reflected rays, always inverted, formed by concave mirror or convex lens.

Virtual image--- cannot be taken on screen, formed when reflected rays appear to meet when produced back, always erect, formed by concave, convex and plane mirrors or convex and concave lens. 3.

Ans 10. Refractive index can be linked to speed of propagation of light in different media as light propagates with different speeds in different media.

Expressions----- $n_2 = \frac{\text{speed of light in medium 1}}{\text{speed of light in medium 2}} = \frac{v_1}{v_2}$

$n_1 = \frac{\text{speed of light in medium 2}}{\text{speed of light in medium 1}} = \frac{v_2}{v_1}$  3.

Ans 11. Its the form in which messages or information is send to brain for interpretation.

(a)dendrites

(b)axon. 3.

Ans 12. Steps for nutrition in amoeba----

1.Ingestion---by pseudopodia and formation of food vacuole.

2.Digestion----Enzymes from cytoplasm enter food vacuole and break them into simpler form.

3.Absorption---soluble food is absorbed by cytoplasm through diffusion process.

4. Assimilation----Amoeba gets energy by respiration and utilise it for growth and repair of body.

5.Egestion—undigested food is thrown out by rupture of cell membrane.

Diagram in text book. 5.

OR

Role of liver-----

1.secretes bile which makes the food alkaline and emulsifies fats.

2.Stores excess glucose in form of glycogen.

3. old worn out RBCs are broken in liver.

4.formation of urea.

5.stores vitamins,iron,and copper.

6.produces fibrogen and help in blood clotting.

7. it produces heparin which stop clotting of blood in blood vessels.

8.regulates volume of blood. 5.

Ans 13. Refer pg no. 190 of text book. 5

OR

Refer pg no.187 of text book.

Ans 14. RED colour. 2.

Ans 15 Sunlight/whitelight 2.

Ans 16. Distance between pole and focus point. 2.