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# SUBJECT-SCIENCE (086) M.M-40

# **Model Answer Sheet**

SECTION-A

1.(b) 2.(b) 3.(b) 4.(b) 5.(a) 6.(d) 7.(b) 8.(a) 9.(d)

### SECTION B.

10. Oxygenated blood from lungs → Pulmonary veins → Left atrium of heart → Left ventricle → Aorta → Arteries → Body parts

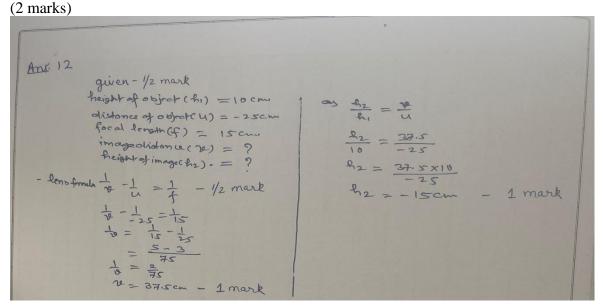
Or

The process of transporting food from the leaves to other parts of a plant is called translocation. This process is carried out by the phloem, a vascular tissue that allows for the bi-directional flow of nutrients.

11. (i) Myopia, concave lens ½ mark each (ii)Two

causes (any two) ½ mark each

- 1. Elongation of eyeball
- 2. Decrease in focal length of eye lens
- 12. Given ( $\frac{1}{2}$  mark) Lens formula ( $\frac{1}{2}$  mark) Solution



- 13. (a) Zinc oxide is an amphoteric oxide because it can react with both acids and bases to form salts and water.
- (b) Sodium metal is stored in kerosene oil because it is highly reactive and can react violently with water and oxygen in the air.
- (c) Nitric acid is a strong oxidizing agent that oxidizes the hydrogen gas produced during the reaction to water.
  - 14. Given (½ mark)

Mirror formula (½ mark)

Solution of object distance ,u=-60 cm (1 mark) Solution of size of an image,hi=-2cm (1 mark)

#### **SECTION C**

15.(a) Electron dot structure of chlorine and calcium½ mark
Formation of calcium chloride. (2 marks)

(b)Ionic compound (1 mark)

(c) Two Physical properties of ionic compounds (½ mark each)

#### Or

- .(a) formation of MgO by electron transfer (2marks) Cation and anion (½ mark each)
  - (b) 1 mark (c) 1

mark

16.(a) Name of organs of excretory system (½ mark each) A pair of kidneys

A pair of ureter Urinary

bladder Urethra

b. urine formation -3 marks

## **SECTION D**

17.(i) All plants were Tall in F1 generation Gene combination- Tt

- ii. Dominant trait mask the recessive trait
- ii. In F2 generation Tall 75%
- ii. In F2 generation-Phenotypic ratio -Tall:Dwarf-3:1

18.(i)b. (ii)c. (iii)X-Violet, Y-Red. (iv)c