

# Kendriya Vidyalaya Sangathan Lucknow region

## Class VII Science      **Marking scheme**

### **Section A    (1 mark each)      7 marks**

- 1) [c] Urinary bladder
- 2) [b] Leaves
- 3) [c] Battery
- 4) [c] speed = distance/time
- 5) [c] Miniature circuit breaker
- 6) [b] plants and animals in the forest are not dependent on one another
- 7) [a] Chlorine

### **Section B    (2 marks each)      8 marks**

- [8] Any two difference and their examples.
- [9] Each component half mark.
- [10] As they are insoluble in water they cause hardening and blocking of drain pipe.
- [11] [i] Heating and lighting    [ii] magnetic effect

### **Section    (3 marks each)      12 marks**

- [12] Photosynthesis is the Process of synthesis of food in green plants with the help of water, carbon dioxide using energy from sunlight and chlorophyll. Diagram optional.
- [13] Diagram of water cycle with proper labeling . (  $\frac{1}{2}$  for each label)
- [14] Brief explanation of : By photosynthesis by green plants and respiration by animals. (1.5 for both process)
- [15] (i) oscillatory                      iv) oscillatory  
      (ii) straight line                  v) oscillatory  
      (iii) circular                      vi) straight line               $\frac{1}{2}$  each

### **Section D    (5 marks each)      15 marks**

- [16] Flower diagram  $\frac{1}{2} \times 6$  for each label - 3 marks  
Any two differences 2 marks
- [17] a) calcium carbonate      1 mark each  
      b) sodium hydrogen carbonate  
      c) galvanization and painting  
      d) physical  
      e) chemical
- [18] a) virtual image definition - 1 mark    Real image definition - 1 mark  
      B) Lateral inversion definition 1 mark  
      C) 1 use of concave mirror 1 mark  
          1 use of convex mirror 1 mark

### **Section E      18 marks**

- [19] a) Carbon dioxide     $\frac{1}{2}$  Stomata     $\frac{1}{2}$  marks  
      b) Understorey      1 mark  
      c) Filtration        1 mark  
      d) Anther            1 mark  
      e) Filament        1 mark  
      f) Ovary            1 mark

[20] 1. Any two functions of Stomata      2 marks

2. b] phloem      1 mark

3.c] Transpirational pull    1 mark

[21] 1. definition 1 mark

2. B] Geyser    1 mark

3. Electric fuse    1 mark

4. A]      1 mark

[22] 1. 09:05      1 mark

2. 10 min      1 mark

3. 7 Km      1 mark

4. speed calculation    1 mark

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