**DAV PUBLIC SCHOOLOS , ODISHA ZONE B & C**

**PERIODIC TEST – II (2023-24)**

**SUB - SCIENCE**

**CLASS- VI**

**BLUE PRINT**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl No.** | **Name of the chapter.** | **VSA**  **(1m)** | **A/R**  **(1m)** | **Passage based MCQ**  **(4m)** | **SA-I**  **(2m)** | **SA-II**  **(3m)** | **LA**  **(5m)** | ***Total*** |
| **1** | **Ch: 11 Electric Currents and Circuits** | **3(1)** | **1(1)** | **1(4)** | **1(2)** | **----** | **1(5)** | ***15*** |
| **2** | **Ch: 8 Structure and Function of the Living Organisms-Plants** | **2(1)** | **-----** | **-------** | **1(2)** | **2(3)** | **1(5)** | ***15*** |
| **3** | **Ch: 10. Work and Energy** | **3(1)** | **-----** | **------** | **2(2)** | **1(3)** | **----** | ***10*** |
| ***Total*** |  | ***8(1)*** | ***1(1)*** | ***1(4)*** | ***4(2)*** | ***3(3)*** | ***2(5)*** | ***(40) marks*** |

**Typology of the Questions:**

1. ***Remembering- 6 marks***
2. ***Understanding- 12 marks***
3. ***Application of knowledge- 10 marks***
4. ***Formulate and analysis- 4 marks***
5. ***Inferential and evaluative- 4 marks***
6. ***Creativity- 4 marks***

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**MARKING SCHEME**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No** | **ANSWER KEY** | **Bit marks** | **Full marks** | **Pg No. of**  **(Text book)** |
| **Section-A** | | | | |
| 1. | Central metal cap- positive terminal  Metal case- negative terminal | 0.5+0.5 | 1 | 172 |
| 2. | Symbol of electric switch-  Symbol of electric bulb  Give symbol of electric bulb - Science - Electricity - 14724953 |  Meritnation.com | 0.5  0.5 | 1 | 178 |
| 3. | Silver is expensive | 1 | 1 | 179 |
| 4. | a. Banyan tree- prop roots  b. Dodder – parasitic roots | 0.5+0.5 | 1 | 126 |
| 5. | Pedicel supports the flower, attaches it to the branch and put it in its position. | 1 | 1 | 133 |
| 6. | a. potential energy  b. kinetic energy | 0.5+0.5 | 1 | 160 |
| 7. | Very loud, coarse and jarring sound produced which is not pleasant for our ears and causes disturbing effect is called noise. | 1 | 1 | 162 |
| 8. | Electric bell, loud speaker | 0.5+0.5 | 1 | 163 |
| **Section-B** | | | | |
| 9. | d. assertion is false but reason is true | 1 | 1 | 2 |
| 10. | a. both a and b are correct  b. tungsten  c. electric current flows through the circuit to the bulb  d. filament and terminal | 1x4 | 4 | 173 |
| **Section-C** | | | | |
| 11. | 1- petiole, 2- mid rib and 3- lamina or leaf blade 4- veins | 0.5x4 | 2 | 130 |
| 12. | Yes, there is a difference between applying force and doing work.  If there is no displacement but force is applied, the work done would be zero. Applying a force is a cause.  Example- while pushing a wall, we apply force but it shows no displacement, so here no work is said to be done  While pushing a table, a table gets displaced, here work is said to be done. Doing work is the result. | 0.5  0.5  0.5  0.5 | 2 | 158 |
| 13. | a. photosynthesis – light energy / solar energy to chemical energy  b. microphone - sound energy to electrical energy | 1  1 | 2 | 168 |
| 14. | Bulb will glow in case of A.  Because all the connection are proper making it a closed circuit where the two ends of wire are connected to bulb and the other to the metallic end of screw driver.  In case of B the circuit is incomplete as one end of wire is connected to plastic part of screw driver which is an insulator. | 0.5  1  0.5 | 2 | 175, 176 |
| **Section-D** | | | | |
| 15. | a. carrot , beet root , turnip , sweet potato (any two)  b. i. R- stem tendril  ii- P-Pea , Q-Gloriosa (or any two relevant answer) | 0.5 +0.5  1  1 | 3 | 131 |
| 16. | Aim of the activity  Materials required  Procedure  Observation  diagram | 0.5x 4    1 | 3 | 161 |
| 17. | a. it transports water and minerals/ transports prepared food from leaves to all parts/ keeps the plant upright (any two)  b. pollen grain – male gamate  - present in anther of stamen or androecium  Ovules - female gamate   * present inside the ovary of pistil or gynoecium | 0.5+0.5  1  1 | 3 | 127  132,  133 |
| **Section-E** | | | | |
| 18. | a. Diagram  four labellings of whorls – calyx, corolla, stamen , pistil  b. Functions of seeds – protects the baby plant and provides nourishment.  - seed dispersal helps in the distribution of the species of plants and their better growth. | 1  0.5x4    1+1 | 5 | 133,  134 |
| 19. | a. Connect the positive terminal of the left cell with the negative terminal of the right cell by using a wire/ close the switch to complete the circuit  b. electric current flows from positive terminal to negative terminal of a cell  c. LEDs – have long life/ consume very little power/ eco-friendly  CFLs – less longevity / consume more power / not eco-friendly  (any two comparisons) | 1+1  1  1+1 | 5 | 174,  175 |