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General Instructions:

1. There are **25** questions in the question paper. All questions are compulsory.

| Qn.  No |  | Marks  allocated |
| --- | --- | --- |

|  | **Choose the Correct Answer** |  |
| --- | --- | --- |
| 1. | The image shows a common symptom of nutrient deficiency.    Deficiency of which nutrient is responsible for this bodily condition?  (A)Iodine - larger goiter  (B) Iron – Anemia (C) Vitamin C- Scurvy (D) Vitamin B1- Beri-beri | 1 |
| 2 | Given below are names of some animals:  (i) Goat (ii) Human beings  (iii) Cockroach (iv) Eagle  Which of the above animals form a pair of omnivores?  (A) (i) and (ii)  (B) (ii) and (iii)  (C) (iii) and (iv)  (D) (ii) and (iv) | 1 |
| 3 | Deficiency of protein and carbohydrate leads to (A) Marasmus (B) Goiter (C) Kwashiorkor (D) Rickets | 1 |
| 4 | The image shows the materials required for a filtration process. 1. Beaker 2. Funnel 3. Filter paper How should these materials be arranged in order to separate the insoluble material from water? | 1 |
| 5. | Reena performed test on the given food sample:  Food sample + Iodine solution ----🡪 observed blue black colour. Which component of food is present in it?   1. Protein 2. Vitamin 3. Starch 4. Fat | 1 |
| 6. | What does the below image show?  (A) Evaporation and Condensation (B) Filtration and Evaporation (C) Decantation and Condensation (D) None of these | 1 |
| 7 | Read each set of terms and identify the odd set.  (A) Cow, milk, butter  (B) Hen, meat, egg  (C) Goat, milk, meat (D) Plant, vegetable, buttermilk | 1 |
| 8 | While preparing chapatis, Vandana found that the flour to be used was mixed with wheat grains. Which out of the following is the most suitable method to separate the grains from the flour? (A) Threshing  (B) Sieving  (C) Winnowing  (D) Filtration | 1 |
| 9 | Mohini asked for a glass of water from Mohan. He gave her a glass of ice-cold water. Mohini observed some water droplets on the outer surface of the glass and asked Mohan how these droplets of water were formed? Which of the following should be Mohan’s answer?  (A) Evaporation of water from the glass.  (B) Water that seeped out from the glass.  (C) Evaporation of atmospheric water vapour.  (D) Condensation of atmospheric water vapour. | 1 |
| 10 | Night blindness is caused due to deficiency of:   1. Vit -C 2. Vit-D 3. Vit-A 4. Vit-E | 1 |
|  | **Fill in the blanks:** |  |
| 11 | \_\_\_\_\_\_\_\_\_ solution is used to test the presence of sugar in food. | 1 |
| 12. | Plants make their own food by the process of\_\_\_\_\_\_\_\_. | 1 |
| 13. | When milk, cooled after boiling, is poured onto a piece of cloth the cream (malai) is left behind on it. This process of separating cream from milk is an example of \_\_\_\_\_\_\_\_\_\_\_. . | 1 |
| 14. | The substances used in preparing food items are called \_\_\_\_\_\_\_. | 1 |
| 15. | Process of making insoluble substances in a liquid to settle down faster by adding chemicals is called \_\_\_\_\_\_\_\_\_\_\_\_. | 1 |
|  | **State True or False if false correct the statement:** |  |
| 16. | Mixture of chalk and water is separated by winnowing. | 1 |
| 17. | Beri-beri is caused due to deficiency of Vitamin A. | 1 |
| 18. | Carrot and radish obtained from plants are examples of root. | 1 |
|  | **Match the following:** | 2 |
| 19. | | **Column A** | **Column B** | Column B | | --- | --- | --- | | 1. Scavenger | 1. Vitamin D | | 1. Magnetic separation | 1. Enzymes | Scurvy | | 1. Osteoporosis | 1. Vulture | Iodine | | 1. Protein | 1. Iron powder mixed with flour | Plant Product | |  |
|  | **Very Short Answer Questions:** |  |
| 20. | Write any one purpose of separating substance from a mixture. | 2 |
| 21. | A vitamin is prepared in our body in the presence of sunlight? Name it and also mention the deficiency disease caused by that vitamin. | 2 |
|  | **Short Answer Questions:** |  |
| 22. | What does PEM mean? Name one disease due to PEM. Also give its symptoms? | 3 |
| 23. | i) Define the process shown in the diagram? ii) In the above diagram the a and b are respectively? iii) Give an example each for (a) and (b) | 1 1 1 |
|  | **Long Answer questions:** |  |
| 24. | A) What are Vitamins? Name any three vitamins and two important minerals. B) Name one disease caused due to defieciency of these vitamins and minerals? | 2  3 |
| 25. | A) Define all the processes used to remove insoluble impurities in a water treatment plant. B) Draw a labelled diagram of apparatus used to make distilled water in the laboratory. | 2  3 |

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