

CLASS VI
MIDTERM EXAMINATION (2022–23)
SUBJECT: SCIENCE
Set B2

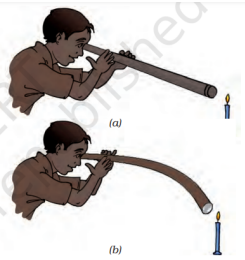
Time Allowed: 3hr

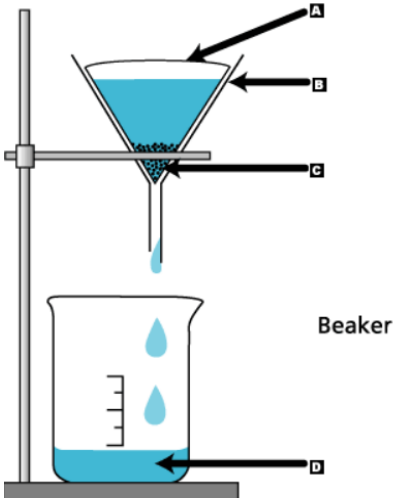
Max Marks: 80

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| | General Instructions : i) All questions are compulsory. ii) Internal choices have been provided in some questions. A student has to attempt only one of the alternatives in such questions. iii) Draw neat and labelled diagrams wherever necessary with a pencil. iv) Please note that the paper consists of 7 printed pages. | |
| Q.No | QUESTIONS | MARKS |
| | SECTION A Q1 to 4 (each subpart carries 1 mark each) | |
| 1 | Fill in the blanks: (i) _____ is caused by the deficiency of Vitamin D. (ii) Starch is present in _____. (iii) Sugar _____ in water. (iv) We dry our clothes by using the process of _____. (v) Motion of a child on a swing is _____. (vi) Sun is an example of _____ object. | 6*1 |
| 2 | Choose the correct option for the following: | 1 |
| (i) | Which of the following is a rich source of fats: (a) Apple (b) Butter (c) Spinach (d) Sunflower seeds | |
| (ii) | Energy giving foods in our body are: (a) Vitamins (b) Protein (c) Carbohydrates (d) Minerals | 1 |
| (iii) | Deficiency of vitamin A causes: (a) Loss of vision (b) Rickets (c) Goiter (d) Scurvy | 1 |

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| (iv) | Which of the following cannot form a shadow: (a) Wall (b) Steel plate (c) Cardboard (d) Transparent plastic sheet | 1 |
| (v) | A mixture of sand and iron nails can be separated by: (a) Winnowing (b) Sieving (c) Filtration (d) None of these | 1 |
| (vi) | The process of conversion of water vapours into liquid is called: (a) Condensation (b) Decantation (c) Sedimentation (d) Evaporation | 1 |
| (vii) | Which of the following methods would be most appropriate to separate butter from curd: (a) Handpicking (b) Winnowing (c) Sieving (d) Churning | 1 |
| (viii) | One meter is equal to millimeter. (a) 10 (b) 1000 (c) 100 (d) 10000 | 1 |
| (ix) | The standard unit of measuring distance is: (a) Meter (b) Handspan (c) Yard (d) Cubit | 1 |
| (x) | Human skin is _____ in nature: (a) Translucent (b) Transparent (c) Opaque (d) None of these | 1 |
| 3 | Give one word for the following: (i) A material that floats on water. (ii) Method used to separate chillies from poha. (iii) Method used to separate sand from sawdust. | 5*1 |

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| | (iv) Motion of the tip of the blade of a fan. (v) Type of motion shown by a rolling ball. | |
| 4 | State true/ false for the following: (i) Milk is an animal product while curd & ghee are plant products. (ii) Wood is soluble in water. (iii) Motion of a vehicle on a straight road is an example of rectilinear motion. (iv) We can measure the length of a curved line with the help of a scale. (v) Beri beri is caused by the deficiency of vitamin C. | 5*1 |
| | SECTION B Q5 to 11 carry 2 marks each(Q10 has an internal choice) | |
| 5 | How can we test for the presence of fats in a given food sample ? | 2 |
| 6 | Why do we need to group materials? Give two reasons. | 2 |
| 7 | Draw and label the diagrams showing the process of sedimentation and decantation. | 2 |
| 8 | Define sieving. Give its uses. | 2 |
| 9 | Lemonade is prepared by mixing lemon juice and sugar in water. You wish to add ice to cool it. Should you add ice to the lemonade before or after dissolving sugar? In which case would it be possible to dissolve more sugar? | 2 |
| 10 | While measuring the length of a knitting needle, the reading of the scale at one end is 3.0 cm and at the other end is 33.1 cm. What is the length of the needle? OR The height of a tower is 30m. Express the height in cm and km. | 2 1+1 |
| 11 | Write any two differences between the nature of images formed by a plane mirror and a pinhole camera. | 1+1 |
| | SECTION C Q12 to Q16 carry 3 marks each(Q13 has an internal choice) | |
| 12 | Identify the method of separation that can be used to separate the following: (a) Cottage cheese from water (b) Salt from sugar crystals (c) Coconut oil from water | 3 |

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| 13 | (i) What is a balanced diet? (ii) What happens when a person does not get enough protein in his/her food for a long time.(two points) | 1 2 |
| 14 | (i) What is a saturated solution? (ii) Suggest two ways to make a saturated solution unsaturated. OR (i) Differentiate between threshing and winnowing.(two points for each) (ii) Why do we need to separate different components of a mixture? | 1 2 2 1 |
| 15 | Define a shadow. List any two conditions/ things necessary for the formation of shadow. | 1+2 |
| 16 | Define the following with examples: (a) Opaque objects (b) Translucent objects (c) Transparent objects | 1*3 |
| | SECTION D Q17 to Q19 carry 5 marks each(Q18 has an internal choice) | |
| 17 | Write one source of food for each of the following nutrients: (i) Carbohydrates (ii) Proteins (iii) Fats (iv) Vitamin A (v) Calcium | 1*5 |
| 18 | (i) Study the picture given below and answer the questions that follow:  (i) What will you observe in : (a) Case A (b) Case B (ii) What do you conclude from the above activity? (ii) Why should we never look directly at the Sun? Suggest a method to look at the sun/ solar eclipse safely. | 2 1 2 |

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| 19 | <p>Study the given picture and answer the questions given below:</p> <p>(i) Identify the process of separation and define it.</p> <p>(ii) Label any three parts out of A, B, C and D .</p>  <p style="text-align: center;">OR</p> <p>You are provided with a mixture of sand, salt, oil and water. Arrange the following steps in the correct sequence for separating salt, sand, water and oil from the mixture.</p> <p>Evaporation of solution , leave the mixture undisturbed for sedimentation, filter the solution to remove insoluble components, condensation of vapours to obtain liquid , decantation</p> | <p>2 3</p> <p>5</p> |
| | <p>Section E</p> <p>Q20 and 21 are Case based questions, carry 5 marks each</p> | |
| 20 | <p>Read the passage given below and answer the questions that follow based on the passage and related concepts:</p> <p>We see around us various objects like a chair, a bullock cart, a cycle, cooking utensils, books, clothes, toys, water, stones and many more. All these objects have different shapes, colours and uses. All objects around us are made of one or more materials. These materials may be glass, metal, plastics, wood, cotton, paper, mud or soil.</p> <p>(i) Which of the following can be made from wood:</p> <p>(a) Cooking utensils (b) Boat (c) Needle (d) Bed sheet</p> | 1 |

| | <p>(ii) Identify a round object from the following:</p> <p>(a) Carrom board (b) Wheel (c) Airplane (d) Ship</p> | 1 | | | | | | | | |
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| | <p>(iii) A non lustrous material:</p> <p>(a) Paper boat (b) Metal key (c) Gold bangle (d) Coin</p> | 1 | | | | | | | | |
| | <p>(iv) Complete the following table:</p> <table border="1"> <thead> <tr> <th>S.No</th><th>Object</th><th>float/sink</th></tr> </thead> <tbody> <tr> <td>1</td><td>Plastic ball</td><td></td></tr> <tr> <td>2</td><td>Stones</td><td></td></tr> </tbody> </table> | S.No | Object | float/sink | 1 | Plastic ball | | 2 | Stones | |
| S.No | Object | float/sink | | | | | | | | |
| 1 | Plastic ball | | | | | | | | | |
| 2 | Stones | | | | | | | | | |
| 21 | <p>Read the passage given below and answer the questions that follow based on the passage and related concepts:</p> <p>In our daily life we use various types of measuring devices. We use a metre scale for measuring length. A tailor uses a tape, whereas a cloth merchant uses a metre rod. For measuring the length of an object, you must choose a suitable device.</p> <p>(i) While taking measurement with a scale, we should:</p> <p>(a) Never keep the ruler along the length to be measured (b) Use worn out portions of the ruler (c) Keep the eye vertically above the point where the measurement is to be taken (d) Hold the scale in any direction</p> <p>(ii) Measurement means the comparison of an unknown quantity with some known quantity. This known fixed quantity is called:</p> <p>(a) Number (b) Unit (c) Metre (d) Length</p> | <p>1</p> <p>1</p> | | | | | | | | |

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| | <p>(iii) Which of the following is most suitable to measure the girth of a tree:</p> <p>(a) Scale</p> <p>(b) Elastic</p> <p>(c) Meter scale</p> <p>(d) Measuring tape</p> | 1 |
| | <p>(iv) Name any two ancient modes of transport.</p> | 2 |

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