

Class: VI  
Annual Examination 2024-2025  
Science  
Set A2

Time Allowed: 2½ h

MM: 60

**Genal Instructions:**

- The question paper consists of three sections.
- Please attempt all questions of one section together.
- Do not mix your answers from one section into another.
- Attempt three separate sections of Physics, Chemistry and Biology on three separate answer sheets.

Section A(Physics)

MM: 20

**General instructions for Physics portion:**

- Please check that the Physics question paper has 5 printed pages.
- Physics question paper consists of 8 questions.
- All questions are compulsory. However, an internal choice is provided in some questions.
- A student is expected to attempt only one of these questions.
- Q1 consists of two True / False Questions of 1 mark each.
- Q2 consists of two fill up the blanks
- Q3 consists of four MCQ of 1 mark each.
- Q4 consists of an Assertion Reason Question of 1 mark.
- Q5 Source-Based/Case-Based Question of 3 marks with three sub-parts. One subpart has internal choice.
- Q6 and Q7 are Short Questions of 2 marks each.
- Q8 is a Long Question of 5 marks.

**1. State whether the statements given below is TRUE or FALSE:**

**(1) × 2 = (2)**

(i) 1 km = 1000 m

(ii) An ordinary iron nail can also be converted into a permanent magnet.

**2. For question number 2, fill up the blanks with correct word (s)/ scientific expression. (write only correct answer with correct serial number, no need to write the words)**

**(1) × 2 = (2)**

2. (a)



Above is the picture of a \_\_\_\_\_ along with many visible stars and planets.

2. (b)

\_\_\_\_\_ is the smallest value of length that we can measure using the 15 cm scale of our geometry box/ pencil box of class 6.

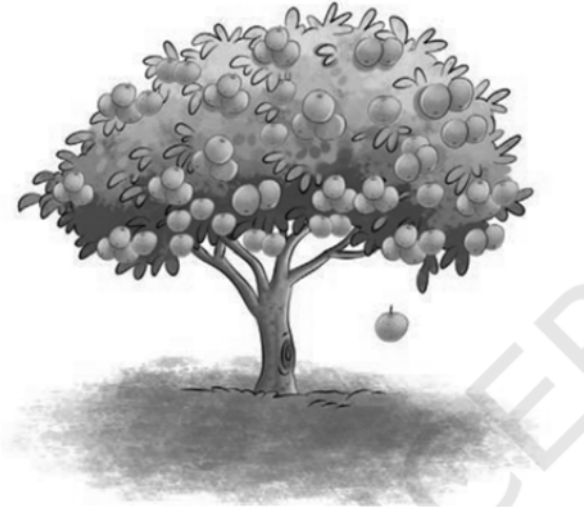
3.

**For question number 3 write the correct option out of 4 choices. (write only correct answer with correct serial number, no need to write the words) (1) × 3 = (3)**

1.(i) The brightest star in the sky ( after sun) is

- (a) Pole star
- (b) Sirius
- (c) Pluto
- (d) Orion

1.(ii) A ripened fruit falls down itself from a tree, as shown in the picture, the motion of fruit while falling is



- (a) circular motion
- (b) oscillatory motion
- (c) linear motion
- (d) both linear and oscillatory

1.(iii)

A bar magnet has always

- (a) one pole called as North pole
- (b) one pole called as South pole
- (c) two poles called as North and South
- (d) two poles called as positive and negative

For question number **4** two statements are given- one labelled **Assertion (A)** and the other labelled **Reason (R)**. Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:

- (a) Both A and R are true, and R is the correct explanation of the assertion.
- (b) Both A and R are true, but R is not the correct explanation of the assertion.
- (c) A is true, but R is false.
- (d) A is false, but R is true.

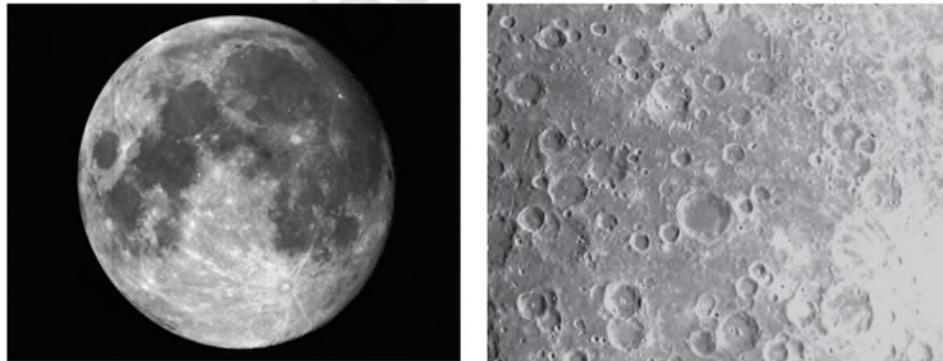
(1)

4.

Assertion (A): When distance is stated with respect to a fixed object or point, then this point is called a reference point.

Reason (R): For any situation, journey always starts from reference point.

5. Read the following passage associated with a picture and answer the questions that follow.



Earth's natural satellite, the Moon, takes about 27 days to complete one revolution around the Earth. It is our nearest neighbour in the space. Unlike on the Earth, there is hardly any atmosphere on the Moon. How big is the Moon as compared to the Earth? The Moon is about a quarter the size of the Earth in diameter. The Moon's surface shows circular bowl-like structures.

- (a) Does moon, the natural satellite of earth, have air on it? (1)  
(b) The Moon's surface shows circular bowl-like structures. What are these structures called as? (1)

**Answer either (c) (i) or (c) (ii). Answer any one of them. Do not answer both.**

- (c) (i) How many Chandrayaan missions, has India launched to study the Moon? (1)

**OR**

- (c) (ii) What is a satellite? (1)

**6.**

- (a) What are poles of a magnet? (1)  
(b) What do you understand by directional property of a bar magnet. Explain in simple words. (1)

**In the following question attempt either 7(a) completely or 7 (b) completely. Do not attempt both.**

**7(a)**

- Conver "2.5" Km into "m". Show all steps. ( All symbols have usual meanings) (2)

**OR**

- 7(b).** Write any two precautions you will use while measuring length of a line. (2)

**For question number 8, either do 8 (a) fully OR do 8 (b) fully. (any one only out of two). Write clear and correct serial number of the one you are attempting. Do not do/touch both of them.**

**8. (a)**

Write down an activity along with a fully labelled diagram to show how can you magnetise a sewing needle. (5)

**OR**

**8 (b)**

Three magnets are arranged on a table in the form of the shape shown in following picture. What is the polarity, "N" or "S", at the ends 1, 2, 3, 4 and 6 of the magnets? Polarity of one end "5" is given for you. Draw the whole picture again on your answer sheet and label clearly. (5)

