

Class: VI
Mid Term Examination 2025-2026
Science
Marking key
Set B1/B2

MT: 2.5 hr

MM:60

Note: 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.

Physics (Section-A)
Set:B1/B2

MM:20

General instructions:

- i. Please check that the Physics question paper has 5 printed pages.**
- ii. Physics question paper consists of 8 questions.**
- iii. All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.**
- iv. Q1 consists of 3 objective type questions carrying 1 mark each.**
- v. Q2 consists of 1 assertion reason type questions carrying 1 mark each.**
- v. Q3 and Q4 consist of two subparts carrying 1 mark each .**
- vi. Q5 and Q6 are short questions carrying 2 marks each.**
- viii. Q7 is a paragraph/case based type question with three subparts .**
- ix Q8 is long 5 marker question with choice.**

SET B1 (i) SETB2 (iii)

Q1. Write the correct option out of four choices.

$(1) \times 3 = (3)$

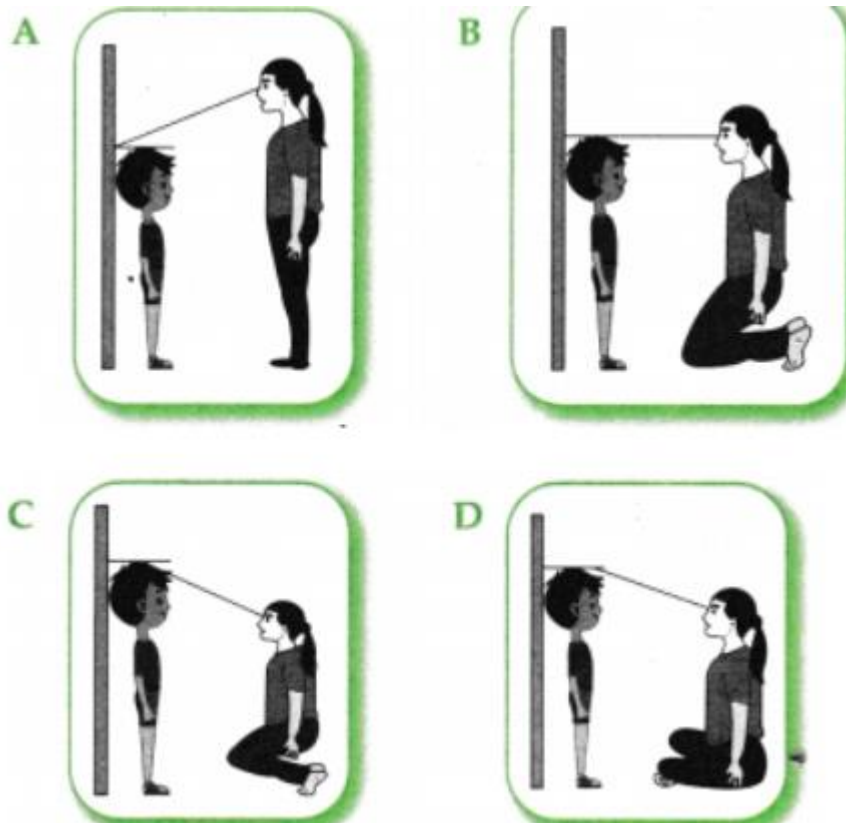
(i) Which of the following is the closest star to the earth

- a) Sirius
- b) Sun**
- c) Proxima Centauri
- d) Pole star

(ii) Which one of the following is arranged in order from biggest to smallest?

- (a) Galaxy, Universe, solar System, Star, Planet
- (b) Universe, Solar System, Galaxy, Planet, Star
- (c) Solar System, Universe, Galaxy, Star, Planet
- (d) Universe, Galaxy, Solar System, Star, Planet**

(iii) Jenny wants to measure the height of her son. She asks her son to stand against a wall. Which picture shows the correct way of marking his height?



Ans: b

Q2. Assertion - Reasoning based questions.

(1)

These consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

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

Q2. Assertion (A): A comet is a celestial body made up of dust, gases, rocks and ice with a long tail.
Reason (R): Comet approaches close to the Sun, the frozen material in it starts evaporating. This evaporating material forms the tail of the comet

Ans: (a) Both A and R are true and R is the correct explanation of A

Q3 FILL IN THE BLANKS

(1 x 2=2)

1. The motion of the earth around the sun in its orbit is known as **revolution**.
2. SI unit of length is **m**.

Q4 TRUE/FALSE

(1 x 2=2)

1. Asteroids revolve around the Sun in paths that lie between Mars and earth **false**
2. Any object that is changing its position concerning a reference point with time is said to be in motion. **True**

Q5 Identify the following constellations:

(1 × 2 = 2)

a)



b)



Ans: a) ursa minor/ little dipper

b) canis major

(1+1)

SET B1

Q6 The person's height is 1.65 m. Convert it to cm and mm.

1+1

Ans: (a) 1.65 m

100 cm = 1 m

= 1.65 x 100

= 165 centimetre

(b) $1.65 \times 100 \times 10 \text{ mm} = 1650 \text{ mm}$.

SET B2

Q6 The person's height is 1.70 m. Convert it to cm and mm.

1+1

Ans:

1.65 m

100 cm = 1 m

= 1.65×100

= 170 centimetre

$1.70 \times 100 \times 10 \text{ mm} = 1700 \text{ mm}$.

Q7 .Read the following passage and answer the questions followed.

(1) $\times 3 = (3)$

The solar system is a collection of celestial bodies held together by the Sun's gravity. It includes the Sun, eight planets, their moons, asteroids, comets, and other smaller objects. The Sun, a massive star, is the central point of the system, and all other objects orbit around it.

a) Why is Earth referred to as the "Blue Planet"?

Ans: Earth is called the "Blue Planet" because about 71% of its surface is covered by oceans, which appear blue from space. This large amount of water

b) Which planet is known as the Red planet?

Ans MARS

Attempt either c) or d)

c) Write names of two inner planets of our solar system.

Ans: Mercury, Venus, Earth and Mars.

OR

d) Explain briefly why Venus is hotter than Mercury.

Ans: The presence of an atmosphere on Venus which traps heat and significantly changes the temperature of a planet. That is why Venus is hotter than Mercury, although it is farther from the Sun.

Attempt either Q8 (A) or Q8 (B)

Q8 A a) What type of motion do the following objects exhibit?

3+2

(i) the sewing machine's needle

(ii) the galloping of a horse

(iii) the blades of an electric fan

b) Why can't a pace or a footstep be used as a standard unit of length?

Ans: a) i. Periodic motion.

ii. Linear motion.

iii. Circular motion.

1*3

b) A pace or a footstep can not be used as a standard unit of length because the pace or footstep of each and every person is not equal.

2

OR

Q8 (B) a) Identify and define the type of motion shown in picture I , II and III below:

3+2



I



II

b) Tasneem wants to make a metre scale by herself. She considers the following materials for it – plywood, paper, cloth, stretchable rubber, and steel. Which of these should she not use and why?

Ans: a) I Circular motion. : When an object moves along a circular path, its motion is called circular motion.

II oscillatory motion: When an object moves to and fro about some fixed position, its motion is called oscillatory motion.

1 ½ + 1 ½

b) Ans: Tasneem should not use stretchable rubber because it can change length when stretched, leading to inaccurate measurements. Plywood, cloth, paper, and steel are more suitable as they maintain consistent lengths.

1+1