2022

Kerala Board

First Term

Question Paper

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SAMAGRA SHIKSHA, KERALA

E 806

FIRST TERMINAL EVALUATION 2022-23

BASIC SCIENCE

Standard : VIII

Time: 2 hour
Score : 60

Instructions

- The total cool off time for Physics, Chemistry and Biology is 15 minute. Read the questions carefully and understand them during this time.
- Answers are to be written in the order Physics, Chemistry and Biology. The time for each section is 40 minute. The answer books must be returned to the teacher after writing each subject.

Physics

Time: 40 minute
Score : 20

Answer any THREE questions from 1 to 4. (Each question carries 1 score). **(3 x 1 = 3)**

1. Identify the relation in first word-pair and complete the second one.

   Volume : : m^3

   Density : : ..... (1)

2. Write the appropriate unit for expressing the distance between planets in the solar system. (1)

   a) m b) nm c) AU d) km

3. Which of the following statement is correct ?

   a. Acceleration is a scalar quantity.

   b. The rate of change of velocity is acceleration.

   c. Unit of acceleration is m/s (1)

4. If a body in motion covers equal distance in equal intervals of time, the body is said to have .....

   (uniform speed / non uniform speed) (1)

Answer any <u>FOUR</u> questions from 5 to 9. (2 scores each.) **(4 x 2 = 8)**

5. The basic unit of mass is kilogram.

   a. Define mass. (1)

   b. 1 tonne = ... kilogram (1)

6. A bus started from rest and acquired a velocity of 30 m/s in 6 s. Find out its acceleration. (2)

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7. Choose the suitable example for acceleration and retardation from the given statements (2)

   a. Propagation of light through vacuum.

   b. The motion of a coconut falling from a coconut tree.

   c. A ball rolling on a level ground.

8. A book on a table is in a state of rest.

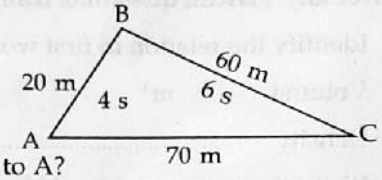
   a. Identify the reference body for the above statement? (1)

   b. Considering the Sun as reference body, the book is in a state of ..... (1)
   (motion/rest)

9. Write any two precautions to be taken by the pedestrians to ensure road safety. (2)

Answer any <u>THREE</u> questions from 10 to 13. (3 scores each.) **(3 x 3 = 9)**

10. Observe the depiction of the path taken by a person as he moves from A to C through B.



   a. Find out his speed? (1)

   b. Find out his velocity? (1)

   c. Find out his displacement if he returns back to A? (1)

11. The fundamental unit of time is second.

   a. What is a solar day? (1)

   b. How many seconds make one solar day? (2)

12. a) Define density. (1)

   b) If petrol, diesel etc. catches fire one should never try to extinguish it using water. Why? (2)

13. Complete the table suitably.

Measurement	Unit	Vector/scalar
Time	s	Scalar
Displacement	a.....	b.....
Speed	c.....	d .....
e.....	m/s^2	f.....

(3)

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