

M - 78

SUMMATIVE ASSESSMENT - I - OCTOBER 2019

GENERAL SCIENCE - Paper I

(Physical Science)

(English Version)

PART - A & B

IX Class]

(Max.Marks: 40)

[Time: 2.45 Hrs.

Marks : 35]

PART - A

[Time: 2.15 Hrs.

General Instructions :

- i) Answer all the questions in separate answer sheet.*
- ii) Question paper contains 3 sections.*
- iii) In Section - III, internal choice is there.*
- iv) Time for examination is 2.45 min; in which 15 min. are meant for reading the question paper.*

Section - I

Note: i) Answer all the questions.

ii) Each question carries one mark.

iii) Write the answers in 1 or 2 sentences.

7x1:

1. Two people push the car for in 5 seconds with a combined net force 600N. Calculate the impulse provided to the car ?
2. 'If air bags are not used in cars' ? What will happen ?
3. Draw the neat diagram of At wood machine ?
4. Write the equation of acceleration and explain the terms.
5. Draw the diagram of arrangement of particles in solid and gases.
6. In a glass tumbler with some water if we keep a pencil, why does it appear to be bending ?
7. Why do stars appear twinkling ?

Section - II

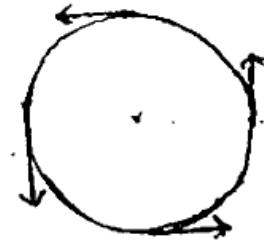
Note: i) Answer all the questions.

ii) Each question carries two marks.

iii) Write the answers in 4 to 5 sentences.

6x2=12

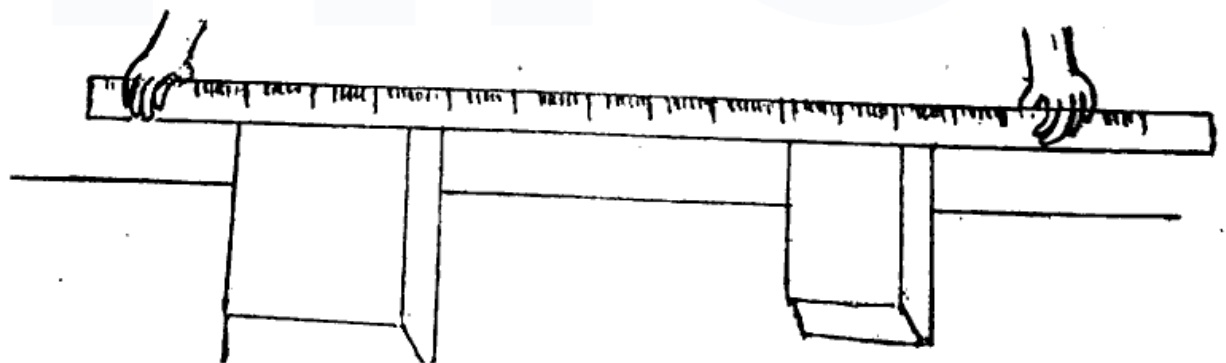
8. Write the difference between distance and displacement.
9. Draw the diagram of that light travels from rarer medium to denser medium.
10. If the object moving in the direction of given diagram.



Questions: i) The motion of the object is called ?
ii) Which one is not constant speed or velocity ? Justify your answer ?

11. Explain sublimation reaction with two examples.

12.



By pushing two wooden blocks having different masses with same force, which body moves more distance and why ?

13. What happens when the earth does not have gravitational force ?

[Contd..on 3rd page]

Section - III

Note: 1) Answer all questions. There is an internal choice for each question.

2) Each question carries four marks.

3) Write the answer in 8-10 sentences.

4x4=16

14. a) List out the materials required and write experimental procedure to the 'action and reaction forces acting on two different objects'.

(OR)

- b) 'The speed of diffusion of two gases are not same'. Write experimental procedure.

15. a) A car is moving with initial velocity of 'u' m/s. After applying the breaks, its retardation is 0.5 m/s^2 and it stopped after 10s. Find the initial velocity and distance travelled by the bus after applying the breaks.

(OR)

- b) Explain Newton's first law of motion with two suitable examples.

16. a) Read the following table, and answer the following questions.

Property	Solid	Liquid	Gas
Shape	Fixed	Not fixed	No fixed shape
Volume	Fixed	Fixed	Not fixed
Compressibility	Very less	Medium	More
Diffusion	Very less	Medium	More

Questions:

- Which material undergoes more diffusion ? Why ?
- Name the material which have definite shape and fixed volume ?
- Compressibility of which material is more ? Which are very less ?
- Give two examples of compressed gases, which are useful.

(OR)

[Turn Over

b) Read the following table, and answer the given questions.

Distance covered by objects A and B in different time intervals, as shown below.

Object -A

Time in sec	0	1	2	3	4	5
Distance 'm'	0	5	10	15	20	25

Object -B

Time in sec	0	1	2	3	4	5
Distance 'm'	0	1	4	9	16	25

Questions:

- i) Which object is moving with uniform velocity ?
- ii) What is the distance travelled by the object 'A' after 3 seconds ?
- iii) What is the distance travelled by the object 'B' after 4 seconds ?
- iv) If object A travelled 40 m distance in 8 seconds, what is the average speed of object 'A'.

17. a) Write the real life examples for 'Centre of gravity' ?

(OR)

b) Write the applications of total internal reflection ?