Adabistan-e-Soophia

Code: 1070

Test No.: 1 **Paper:** Physics

Name:_____ **Class:** IX **Sec:** _____

Syllabus: Ch. 1, 2

Question Numbers	1	2	3			Total	Grade	%age
Maximum Marks	09	22	09			40		
Marks Obtained								
Remarks:_____								

Time Allowed: 15 mins **(Objective Type)** **Max. Marks: 09**

	A	B	C	D	Write Correct option		A	B	C	D	Write Correct option		A	B	C	D	Write Correct option
1	Ⓐ	Ⓑ	Ⓒ	Ⓓ		7	Ⓐ	Ⓑ	Ⓒ	Ⓓ		13	Ⓐ	Ⓑ	Ⓒ	Ⓓ	
2	Ⓐ	Ⓑ	Ⓒ	Ⓓ		8	Ⓐ	Ⓑ	Ⓒ	Ⓓ		14	Ⓐ	Ⓑ	Ⓒ	Ⓓ	
3	Ⓐ	Ⓑ	Ⓒ	Ⓓ		9	Ⓐ	Ⓑ	Ⓒ	Ⓓ		15	Ⓐ	Ⓑ	Ⓒ	Ⓓ	
4	Ⓐ	Ⓑ	Ⓒ	Ⓓ		10	Ⓐ	Ⓑ	Ⓒ	Ⓓ		16	Ⓐ	Ⓑ	Ⓒ	Ⓓ	
5	Ⓐ	Ⓑ	Ⓒ	Ⓓ		11	Ⓐ	Ⓑ	Ⓒ	Ⓓ		17	Ⓐ	Ⓑ	Ⓒ	Ⓓ	
6	Ⓐ	Ⓑ	Ⓒ	Ⓓ		12	Ⓐ	Ⓑ	Ⓒ	Ⓓ		18	Ⓐ	Ⓑ	Ⓒ	Ⓓ	

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink. Cutting or filling two or more times result in zero mark in that question.

Q.1	Questions	(A)	(B)	(C)	(D)
1.	Which is vector quantity?	Speed	Distance	Displacement	Power
2.	By dividing displacement with time, we get?	Speed	Acceleration	Velocity	None
3.	A train moving with speed at $36\ kmh^{-1}$. Its speed in ms^{-1} is?	$10\ ms^{-1}$	$20\ ms^{-1}$	$25\ ms^{-1}$	$30\ ms^{-1}$
4.	V_f =?	$V_i - at$	$V_i + gt$	$V_i - gt$	$V_i + a$
5.	Falcon can fly at speed?	$200\ ms^{-1}$	$200\ kmh^{-1}$	$20\ kmh^{-1}$	$20\ ms^{-1}$
6.	A car starts from rest. Its speed become $20\ ms^{-1}$ in $8\ sec$. Its acceleration is:	$2\ ms^{-2}$	$2.5\ ms^{-2}$	$0.5\ ms^{-2}$	None
7.	When velocity decreases, acceleration is?	Positive	Negative	Unchanged	None
8.	In distance time graph, when object at rest, the graph is:	Horizontal line	Straight line	Curve	Circle
9.	Distance =	$v \times t$	$\frac{v}{t}$	$s \times t$	$\frac{s}{t}$

10.	An interval of 200 μsec is:	0.2 s	0.02 s	$2 \times 10^{-4} s$	$2 \times 10^{-6} s$
11.	Which one is not derive unit?	Pascal	Kilogramme	Newton	Watt
12.	Which one is smallest quantity?	0.01 g	2 mg	100 μg	5000 ng
13.	Which one is base unit?	Joule	Newton	Mole	Hertz
14.	Standard form of 6400 km:	6.4 m	$6.4 \times 10^{2} km$	$6.4 \times 10^{3} km$	6.4 km
15.	How many significant figures are in 210.0 g?	2	4	3	01
16.	Least count of digital vernier calliper?	0.1 mm	0.001 mm	0.001 cm	0.1 cm
17.	1 giga =	10^{-9}	10^{12}	10^{9}	10^{-12}
18.	$1\ m^3$=	10 ml	1000 l	100 l	10 l

Time Allowed: 75 minutes **(Subjective Type)** **Max. Marks: 31**

(Section - I)

2. Write short answers to the following questions. **(11×2=22)**

i. How can you differentiate between base and derived quantities?

ii. What is meant by vernier constant?

iii. Why is the use of zero error necessary in a measuring instrument?

iv. Write in standard form:

a. 0.02×10^{-8} **b.** seconds in a day

v. What is meant by significant figures of a measurement?

vi. How the state of rest or motion of a body is relative to each other?

vii. Define acceleration.

viii. Draw speed-time graph when object is moving with constant speed.

ix. Convert 50 kmh^{-1} in ms^{-1}.

x. How can vector quantities be represented graphically?

xi. What is meant by deceleration?

(Section - II)

Note: Give detailed answers of the following questions. **(4+5=09)**

3. a) Derive second equation of motion for uniformly accelerated body. **(4)**

b) A car has a velocity of 10 ms^{-1}. It accelerate at 0.2 ms^{-2} for half minute. Find the distance trevelled and final velocity of car. **(5)**