



NPS INTERNATIONAL SCHOOL

HALF YEARLY EXAMINATION (2022 -2023)

SUBJECT: PHYSICS(042)

GRADE : XI (NON-SIP)

TIME: 3 hours

MAXIMUM MARKS: 70

TOTAL NO OF PRINTED PAGE: 06

DATE: 15-10-2022

General Instructions:

- There are 35 questions in all. All questions are compulsory
- This question paper has five sections: Section A, Section B, Section C, Section D and Section E. All the sections are compulsory.
- Section A contains eighteen MCQ of 1 mark each, Section B contains seven questions of two marks each, Section C contains five questions of three marks each, section D contains three long questions of five marks each and Section E contains two case study based questions of 4 marks each.
- There is no overall choice. However, an internal choice has been provided in section B, C, D and E. You have to attempt only one of the choices in such questions.
- Use of calculators is not allowed.

SECTION-A

- If force (F), velocity (v) and time (T) are taken as fundamental units, then dimension of mass are:
(a) $[FVT^{-2}]$ (b) $[FV^{-1}T^{-1}]$ (c) $[FV^{-1}T]$ (d) $[FVT^{-1}]$ 15
- Which of the following pairs of quantities has the same dimensions?
(a) force and work done (b) momentum and impulse
(c) pressure and force (d) surface tension and stress
- The number of significant figures in 0.06900 is :
(a) 5 (b) 4 (c) 2 (d) 3
- In a uniform circular motion the speed of the body is:
(a) variable (b) constant (c) 0 (d) same as acceleration
- The cross product of $\vec{A} = 2\hat{i} + 3\hat{j} + \hat{k}$ and $\vec{B} = \hat{i} - \hat{j} + 2\hat{k}$ is:
(a) $7\hat{i} + 3\hat{j} + 5\hat{k}$ (b) $7\hat{i} - 3\hat{j} + 5\hat{k}$ (c) $-7\hat{i} + 3\hat{j} + 5\hat{k}$ (d) $7\hat{i} - 3\hat{j} - 5\hat{k}$
- A particle revolves round a circular path. The acceleration of the particle is inversely proportional to :
(a) radius (b) velocity (c) mass of particle (d) both (b) and (c)
- What is the acceleration if the body starts from rest and travels a distance of 's' m in 2 seconds?
(a) $\frac{2}{3}s \text{ ms}^{-2}$ (b) $\frac{3}{2}s \text{ ms}^{-2}$ (c) $\frac{1}{3}s \text{ ms}^{-2}$ (d) $\frac{1}{2}s \text{ ms}^{-2}$
- A car travels first half of the distance between two places with a speed of 30 km/hr and remaining half with a speed of 50 km/hr. The average speed of the car is:
(a) 37.5 km/h (b) 42 km/h (c) 40 km/h (d) 49 km/h
- Three block of masses M_1 , M_2 & M_3 are connected by mass less strings as shown on a frictionless table.

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Xiaolong Qi

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