

Phaltan Education Society's Jr. Colleges

Preliminary Examination 2021 - 2022

Std : XII

Sub. : PHYSICS

Marks : 70

General Instructions : The question paper is divided into four sections.

- 1) **Section 'A'** Q. No. 1 contains Ten multiple choice type of questions carrying One mark each.
Q. No. 2 contains Eight very short answer type questions carrying one mark each
- 2) **Section 'B'** Q. No. 3 to Q. No. 14 contains Twelve short answer type of questions carrying Two marks each. (Attempt any Eight)
- 3) **Section 'C'** Q. No. 15 to Q. No. 26 contains Twelve short answer type of questions carrying Three marks each. (Attempt any Eight).
- 4) **Section 'D'** Q. No. 27 to Q. No. 31 contains Five long answer type of questions carrying Four marks each. (Attempt any Three)
- 5) Use of Log table is allowed. Use of a calculator is not allowed.
- 6) Figures to the right indicate full marks.
- 7) For each MCQ correct answer must be written along with its alphabet :
e. g: (a) / (b) / (c) / (d) only first attempt will be considered for evaluation.
- 8) **Physical constants :-**

i) $\pi = 3.142$	v) $1 \text{ A}^\circ = 10^{-10} \text{ m}$
ii) $1 \mu\text{C} = 1 \times 10^{-6} \text{ C}$	vi) Planck's constant (h) = $6.63 \times 10^{-34} \text{ J-s}$
iii) $\epsilon_0 = 8.85 \times 10^{-12} \text{ F/m}$	vii) Mass of Proton (m) = $1.672 \times 10^{-27} \text{ kg}$
iv) $\mu_0 = 4\pi \times 10^{-7} \text{ Wb/Am}$	viii) $\frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ Nm}^2/\text{C}^2$

SECTION : A

Q. 1) Select and write the correct answer :

10

- i) If a liquid does not wet a solid surface, its angle of contact with the solid surface is

a) zero	b) acute
c) 45°	d) obtuse
- ii) The kinetic energy per molecule of a gas at temperature (T) is

a) $\frac{1}{2} m \overline{v^2}$ RT	b) $\frac{1}{2} m \overline{v^2}$ K _B T
c) $\frac{1}{2} m \overline{v^2}$ RT	d) $\frac{1}{2} m \overline{v^2}$ K _B T
- iii) The period of S. H. M. of a particle with maximum velocity 50 cm/s and maximum acceleration is

a) 31.42 s	b) 6.284 s
c) 3.142 s	d) 0.3142 s

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examination the opportunity you get from the Indian Armed Forces is just limitless which helps in enhancing your personality traits For a youngster who is aspiring to get a job full of challenges and excitement then there is no better job than the defence This book aims to make aspirants exam ready boost their confidence and help them achieve better results in CDS By making learning Simple we are also making better careers and a better life for every student Every day we are moving ahead pursuing our noble cause of spreading knowledge This set of solved question papers is designed to enrich students with ample and examoriented practice so that they can clear CDS Examination with extraordinary results Not one or two but 14 Previous Year Solved Question Paper 2018 to 2024 II focussed on polishing every topic Thorough studying of this book will boost my confidence and familiarise me with exam patterns Some benefits of studying from Oswaal CDS check 14 Previous year solved question papers 100% updated with Fully Solved Paper of September 2024 II Concept Clarity with detailed explanations of 2018 to 2024 I Papers Extensive Practice with 1600 Questions and Two Sample Question Papers Crisp Revision with Mind Maps Expert Tips helps you get expert knowledge master crack CDS in first attempt Exam insights with Previous Years 2024 2019 Trend Analysis empowering students to be 100% exam ready Our Heartfelt Gratitude Finally we would like to thank our authors editors and reviewers Special thanks to our students who send us suggestions and constantly help improve our books To stay true to our motto of Learning Made Simple we constantly strive to present information in ways that are easy to understand as well as remember

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