

# Physics

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(Chapter 3) (Motion in a straight line) (Exercises)

(Class 11)

Total time taken in the whole journey = 30 + 20 = 50 min

$$\text{Average velocity} = \frac{\text{Displacement}}{\text{Time}} = \frac{2.4}{\frac{1}{2}} = 5 \text{ km/h} \quad \dots \text{(a(i))}$$

$$\text{Average speed} = \frac{\text{Distance}}{\text{Time}} = \frac{2.5}{\frac{1}{2}} = 5 \text{ km/h} \quad \dots \text{(b(i))}$$

$$\text{Time} = 50 \text{ min} = \frac{5}{6} \text{ h}$$

Net displacement = 0

Total distance = 2.5 + 2.5 = 5 km

$$\text{Average velocity} = \frac{\text{Displacement}}{\text{Time}} = 0 \quad \dots \text{(a(ii))}$$

$$\text{Average speed} = \frac{\text{Distance}}{\text{Time}} = \frac{5}{\frac{5}{6}} = 6 \text{ km/h} \quad \dots \text{(b(ii))}$$

Speed of the man = 7.5 km/h

Distance travelled in first 30 min = 2.5 km

Distance travelled by the man (from market to home) in the next 10 min

$$= 7.5 \times \frac{10}{60} = 1.25 \text{ km}$$

Net displacement = 2.5 - 1.25 = 1.25 km

Total distance travelled = 2.5 + 1.25 = 3.75 km

$$\text{Average velocity} = \frac{1.25}{\left(\frac{40}{60}\right)} = \frac{1.25 \times 3}{2} = 1.875 \text{ km/h} \quad \dots \text{(a(iii))}$$

$$\text{Average speed} = \frac{3.75}{\left(\frac{40}{60}\right)} = 5.625 \text{ km/h} \quad \dots \text{(b(iii))}$$

## Question 3.15:

In Exercises 3.13 and 3.14, we have carefully distinguished between average speed and magnitude of average velocity. No such distinction is necessary when we consider instantaneous speed and magnitude of velocity. The instantaneous speed is always equal to the magnitude of instantaneous velocity. Why?

## Answer 3.15:

Instantaneous velocity is given by the first derivative of distance with respect to time i.e.,

$$V_{\text{in}} = \frac{dx}{dt}$$

Here, the time interval  $dt$  is so small that it is assumed that the particle does not change its direction of motion. As a result, both the total path length and magnitude of displacement become equal in this interval of time.

Therefore, instantaneous speed is always equal to instantaneous velocity.

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# Mastering Physics Solutions Chapter 3

**Richard Wolfson, Jay M. Pasachoff**



### **Mastering Physics Solutions Chapter 3:**

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**Physics for Scientists and Engineers**, Richard Wolfson, Jay M. Pasachoff, 1999. This book emphasizes the conceptual unity of physics.

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**Physics with Modern Physics for Scientists and Engineers** Richard Wolfson, Jay M. Pasachoff, 1999

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Finite Elements 1-2-3 A. J. Baker, Darrell W. Pepper, 1991 This text is intended for the student who is being introduced for the first time to the Finite Element Method FEM Written in a simple easy to follow manner the book is a practical guide for learning the basics of the method and applying them to a wide variety of problems The book focuses on the practical applications of fundamental concepts with special emphasis on fluid mechanics Computational experiments are integrated throughout the text via example problems and exercises A comprehensive finite element instructional computer code written for the PC using standard FORTRAN 77 is used to support every basic step and solve the set of example problems The coverage of numerical linear algebra presents a unique numerical scheme based on continuing finite element finite difference methodologies

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web aug 3 2023 the exams of electrical diploma will commence in 2023 and its date sheet will be declared about 15 to 20 days before it this is an important time for the students

**pbte electrical diploma annual date sheet 2023 talib pk** - Apr 19 2022

web nov 4 2023 the test series is curated for electrical diploma trainee aspirants it consists of 105 tests where 27 ee chapter tests 45 stage 1 chapter tests 12 ee

irel diploma trainee recruitment 2023 apply for 37 vacancies - Aug 24 2022

web oct 30 2023 pgcil diploma trainee exam date 2023 the power grid corporation of india limited has announced the pgcil diploma trainee exam date 2023 on its official

**2024 ka polytechnic diploma electrical ka entrance exam date** - Jun 21 2022

web what is the last date of diploma in electrical engineering diploma in electrical engineering admission 2023 24 eligibility syllabus top colleges course duration

pgcil diploma trainee admit card 2023 application status - Sep 24 2022

web mar 22 2023 diploma in electrical or mechanical engineering from a recognized university board institute 11 junior engineer electrical farakka barrage project

diploma in electrical engineering syllabus subjects 2023 - Nov 26 2022

web oct 30 2023 pgcil diploma trainee exam date has been announced the computer based test will take place on 24th november 2023 the power corporation of india

**ntpc electrical diploma trainee test series free mock test** - May 21 2022

web oct 12 2023 2024 ka polytechnic diploma electrical ka entrance exam date kya hai mohd anas 12th oct 2023 answer later answer 1 osssj 12th oct 2023

pgcil diploma trainee recruitment 2023 exam date - Dec 28 2022

web oct 30 2023 the pgcil diploma trainee exam will be held on 24 november 2023 so according to this information the pgcil diploma trainee hall ticket 2023 may be out in

**what is the last date of diploma in electrical engineering** - Jul 23 2022

web oct 30 2023 irel diploma trainee notification 2023 out on 28th october 2023 the indian rare earths limited irel has released a notification to recruit the candidates for

**lise diploması ne zaman verilir 2022 e devlet lise hürriyet** - Jul 03 2023

web jun 29 2022 lise diploma sorgulaması nereden nasıl yapılır sorularının cevapları araştırılan konular arasında yer alıyor 2021 2022 eğitim öğretim yılı karnelerin

**pgcil diploma trainee exam date 2023 out for 425 vacancies** - Jan 29 2023

web oct 19 2023 appear for the examination on the date announced results results are announced after a couple of weeks of the exam date if a candidate is successful in the

**diploma time table 2023 polytechnic exam date 1st** - Oct 06 2023

every year lots of students appear on diploma examination hence now they have requires diploma 1st 2nd 3rd year final year time table 2023 to know about when will exam start we would like to inform the department will release polytechnic date sheet 2023 before 1 month prior of examination after see more

*pgcil dt syllabus 2023 and exam pattern check* - Sep 05 2023

students who are enrolled in diploma courses would download polytechnic exam time table 2023 online from official website here we see more

msbte exam 2023 time table msbte winter summer - Nov 14 2021

web nov 3 2023 diploma time table date of release msbte time table summer 2023 tentative 19 october 2023 date of summer practical exam 16 november to 30

*lise diplomaları ne zaman verilecek 2022 lise diploma* - Aug 04 2023

the university decides to organize diploma 1st 2nd 3rd year exams at various examination centers according to state wise all students can download diploma exam see more

**engineering exams 2023 check list of latest govt engineering** - Oct 26 2022

web aug 17 2023 want to know diploma in electrical engineering syllabus and subjects get the full detail for diploma in electrical engineering syllabus subjects for the entire

**msbte time table 2023 winter released diploma exam** - Dec 16 2021

web oct 28 2023 exam name pgcil diploma trainee exam date 2023 power grid corporation of india limited powegrid has released a latest recruitment notification

