

SUBJECT: PHYSICS
CLASS: 11TH

TIME: 3 HOURS
MAXIMUM MARKS: 70

S. No	General Instructions	Marks
1.	There are total of four sections in the question paper. All questions are compulsory.	
	Section – A contains 10 Objective Type Question/ Multiple choice Question of 1 Mark each	1×10=10 marks
	Section – B contains 9 Very Short Answer Type Question of 2 Marks each to be answered in 20 to 30 words	2×9=18 marks
	Section – C contains 9 Short Answer Type Questions of 3 Marks each to be answered in 100 to 150 words.	3×9= 27 marks
	Section – D contains 3 long Answer Type Questions of 5 Marks each to be answered in 150 to 200 words.	5×3= 15 marks
2.	Use log tables, if necessary. Use of scientific calculators is not allowed	

SECTION A

1. Do as directed:

a) The position time graph for a body in uniform motion is



b) The dimensional formula for Gravitational constant is

a) ML^2T^2

b) $M^{-2}L^2T^2$

c) $M^2L^3T^{-1}$

d) $M^{-1}L^3T^2$

c) If $\vec{A} = 3\hat{i} + 2\hat{j}$ and $\vec{B} = 2\hat{i} + m\hat{j} + 2\hat{k}$ are perpendicular to each other. Find the value of 'm'.

a) 2

b) -4

c) 5

d) -3

d) When a body is in free fall its

a) potential energy is conserved

b) kinetic energy is conserved

c) total energy is conserved

d) None of these

e) The centre of mass of Earth – moon system lies

a) close to earth

b) close to moon

c) exactly at the centre of line joining earth & moon

d) on the moon

f) Value of g is maximum at

a) equator

b) poles

c) centre of earth

d) All of above

[Handwritten signature]

Mid Year Physics Paper 1 Grade 11

Jiyuan Zhang



Mid Year Physics Paper 1 Grade 11:

Decoding **Mid Year Physics Paper 1 Grade 11**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mid Year Physics Paper 1 Grade 11**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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web dec 18 2019 aisi 4140 alloy steel can be tempered at 205 to 649 c 400 to 1200 f depending upon the desired hardness level the hardness of the steel can be increased if it has a lower tempering temperature for example a tensile strength of 225 ksi can be achieved by tempering at 316 c 600 f and tensile strength of 130 ksi can be

sae aisi 4145 scm445 g41450 cr mo steel makeitfrom com - Dec 13 2022

web may 30 2020 shear strength 360 mpa 52 x 103 psi tensile strength ultimate uts 580 mpa 85 x 103 psi tensile strength yield proof 360 mpa 53 x 103 psi thermal properties latent heat of fusion 250 j g maximum temperature mechanical 420 c 790 f melting completion liquidus 1460 c 2650 f

4145h modified api spec 7 voestalpine - Apr 17 2023

web description aisi 4145h is a chromium molybdenum quality alloy steel specification as a high tensile steel grade aisi 4145h is primarily supplied in the hardened and tempered condition to 30 36hrc range to aisi 4145h modified

aisi 4145 4145h steel astm a29 waldun steel - Sep 22 2023

web aisi 4145h has improved hardenability and is more is commonly used in the high strength condition with min 110 ksi yield we welcome enquiries for aisi 4145 4145h steel contact our sales office for further details aisi 4145 4145h

steel aisi 4145 modified liberty steel group - Jun 19 2023

web the specification defines the requirements for aisi 4145 hot rolled crmo bars hardened and tempered to meet either 110ksi 120ksi or 125ksi minimum yield strength steel manufacture steel is manufactured via electric arc furnace followed by ladle refining and vacuum degassing and is either cast into bottom

material data sheet aisi sae 4145 tel email - Feb 15 2023

web aisi 4145 is a chromium molybdenum alloy steel grade widely used in the oil and gas sectors for down hole applications similar to aisi 4140 but with a higher carbon content 4145 is more popular in larger diameters due to its increased strength and hardenability

aisi 4340 vs aisi 4145h metal and metallurgy engineering - May 06 2022

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aisi 4145 h modified quenched tempered bar matmatch - Jan 14 2023

web description aisi 4145h is a chromium molybdenum low alloy tempered steel it has improved hardenability and is more is commonly used in the high strength condition with min 110 ksi yield related standards equivalent materials en 1 7225 this material data has been provided by sverdrup steel

aisi 4145 alloy steel data sheet west yorkshire steel co ltd - May 18 2023

web aisi 4145 alloy steel data sheet west yorkshire steel co ltd author microsoft office user keywords aisi 4145 steel stockholders and suppliers delivering to the whole of the uk aisi 4145 is a chromium created date 9 29 2022 4 02 59 pm

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web aisi 3312 1 2 aisi 4130 3 4 aisi 4140 5 7 aisi 4145 8 aisi 4340 9 10 aisi 8620 11 12 2 cold finished steels aisi 1018 13 14 aisi 12l14 15 aisi 1045 t g 16 17 chromed shafting 18 induction hardened shafting 19 aisi 4140 precision 20 3 hot rolled steels aisi 1020 21 aisi 1040 1050 22 23 4 tool steels aisi o 1 24

aisi 4145 alloy steel uns g41450 composition properties - Jul 20 2023

web jun 1 2023 aisi 4145 exhibits excellent strength toughness and wear resistance as a low alloy steel grade the minimum

yield strength of aisi 4145 is 89 ksi while the ultimate tensile strength is between 125 140 ksi depending on the heat treatment conditions

energy alloys global solutions 100 oil and gas focused - Jun 07 2022

web as compared to 4140 the 4145 mod grade has higher levels of chromium and molybdenum which will provide much deeper hardening into the steel after austenitizing quenching and tempering this alloy should not be confused with aisi 4145 as the chemical limits for the modified version are much higher