

MEMORANDUM

QUESTION 1

(16 MARKS)

1.1 What is a scalar quantity? (1)

Quantity with magnitude only ✓✓

1.2 A Hyundai Accent moves from rest and accelerate for 20 seconds and reaches a speed of 72 km/h. It continues with the uniform velocity for 10 seconds and driver brakes and the car stop after 10 seconds.

1.2.1 Make a sketch of a velocity-time graph



Calculate the following:

1.2.2 The acceleration in the first 20 seconds.

$$a = \frac{v - u}{t} = \frac{20 - 0}{20} \checkmark = 1 \text{ ms}^{-2} \checkmark$$

1.2.3 Total distance

$$s = \text{area under curve} = \frac{1}{2}(10 + 40)20 \checkmark = 500 \text{ m} \checkmark$$

1.2.4 The average velocity in 40 seconds.

$$\text{average} = \frac{\text{displacement}}{\text{time}} = \frac{500}{40} \checkmark = 12.5 \text{ ms}^{-1} \checkmark$$

(3 × 2)

(6)

Answers For 2014 November Engineering Science N3

Tommy Ferreira



Answers For 2014 November Engineering Science N3:

The Closing of the Liberal Mind Kim R. Holmes, 2016-04-12 A former U S Assistant Secretary of State and currently a Distinguished Fellow at the Heritage Foundation Kim R Holmes surveys the state of liberalism in America today and finds that it is becoming its opposite illiberalism abandoning the precepts of open mindedness and respect for individual rights liberties and the rule of law upon which the country was founded and becoming instead an intolerant rigidly dogmatic ideology that abhors dissent and stifles free speech Tracing the new illiberalism historically to the radical Enlightenment a movement that rejected the classic liberal ideas of the moderate Enlightenment that were prominent in the American Founding Holmes argues that today s liberalism has forsaken its American roots incorporating instead the authoritarian anti clerical and anti capitalist prejudices of the radical and largely European Left The result is a closing of the American liberal mind Where once freedom of speech and expression were sacrosanct today liberalism employs speech codes trigger warnings boycotts and shaming rituals to stifle freedom of thought expression and action It is no longer appropriate to call it liberalism at all but illiberalism a set of ideas in politics government and popular culture that increasingly reflects authoritarian and even anti democratic values and which is devising new strategies of exclusiveness to eliminate certain ideas and people from the political process Although illiberalism has always been a temptation for American liberals lurking in the radical fringes of the Left it is today the dominant ideology of progressive liberal circles This makes it a new danger not only to the once venerable tradition of liberalism but to the American nation itself which needs a viable liberal tradition that pursues social and economic equality while respecting individual liberties

AI's Transformative Impact on Finance, Auditing, and Investment Ghosn, Fadi, Awad, Ghina, Darwich, Karim, 2025-05-29 AI s transformative impact on finance auditing and investment revolutionizes the way financial systems operate making processes more efficient accurate and data driven In finance AI automates complex tasks like risk assessment fraud detection and predictive analytics allowing firms to make more informed decisions and manage risk with precision In auditing AI tools enhance the ability to analyze large amounts of financial data identifying discrepancies that may have gone unnoticed improving transparency and accountability Investment strategies are reshaped as AI powered algorithms optimize portfolio management forecast market trends and execute trades in real time reducing human error and enabling faster decision making While these advancements offer incredible benefits they also raise concerns about security data privacy and the potential for job displacement in traditional financial roles which requires further exploration AI s Transformative Impact on Finance Auditing and Investment examines how AI technologies are revolutionizing these critical sectors It examines foundational AI concepts including machine learning natural language processing and their applications in risk management fraud detection financial forecasting and audit automation discussing ethics regulatory considerations and future trends This book covers topics such as policymaking data analytics and financial technology and is a useful resource for business owners policymakers economists academicians researchers and data

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