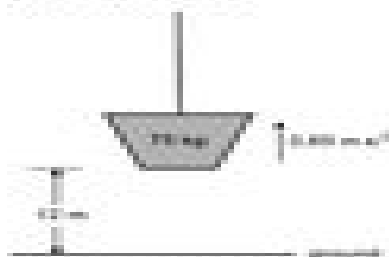


QUESTION 13

A load of mass 75 kg is initially at rest on the ground. It is then pulled vertically upwards at a constant acceleration of 0.85 m/s^2 by means of a light inextensible rope. Refer to the diagram below. Ignore air resistance, rotational effects and the mass of the rope.

- 13.1 Draw a labelled free-body diagram for the load while it moves upward. (2)
- 13.2 Name the non-conservative force acting on the load. (1)
- 13.3 Calculate the work done on the load by the gravitational force when the load has reached a height of 1.2 m. (3)
- 13.4 State the work-energy theorem in words. (2)
- 13.5 Use the work-energy theorem to calculate the speed of the load when it is at a height of 1.2 m. (5)

[13]

QUESTION 14

The diagram, not drawn to scale, shows a vehicle with a mass of 1 500 kg starting from rest at point A at the bottom of a rough incline. Point B is 200 m vertically above the horizontal. The total work done by force F that moves the vehicle from point A to point B in 90 s is $4,80 \times 10^4 \text{ J}$.



- 14.1 Define the term non-conservative force. (2)
- 14.2 Is force F a conservative force? Choose from: YES or NO. (1)
- 14.3 Calculate the average power generated by force F. (3)
- The speed of the vehicle when it reaches point B is 25 m/s .
- 14.4 State the work-energy theorem in words. (2)
- 14.5 Use energy principles to calculate the total work done on the vehicle by the frictional forces. (5)

[13]

DOPPLER EFFECT**QUESTION 1**

- 1.1 The siren of a stationary ambulance emits a note of frequency 1 130 Hz. When the ambulance moves at a constant speed, a stationary observer detects a frequency that is 70 Hz higher than that emitted by the siren.
- 1.1.1 State the Doppler effect in words. (2)
- 1.1.2 Is the ambulance moving towards or away from the observer? Give a reason. (2)
- 1.1.3 Calculate the speed at which the ambulance is travelling. Take the speed of sound in air as 343 m/s . (5)
- 1.2 A study of spectral lines obtained from various stars can provide valuable information about the movement of the stars. The two diagrams below represent different spectral lines of an element. Diagram 1 represents the spectrum of the element in a laboratory on Earth. Diagram 2 represents the spectrum of the same element from a distant star.



Is the star moving towards or away from the Earth? Explain the answer by referring to the shifts in the spectral lines in the two diagrams above.

(2)
[15]

March Control Test Grade 12 2014 Memorandum

Rosina Ehmann



March Control Test Grade 12 2014 Memorandum:

The Top Books of the Year March Control Test Grade 12 2014 Memorandum The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. March Control Test Grade 12 2014 Memorandum : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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