



MEMORANDUM
APRIL 2008

✓ = 1pt

QUESTION - 1 - VRAAG
[POWER TRANSMISSION - KRAGTOORBRINGING]

1.1

1.1.1

For the Speed Ratio (SR):

Speed Ratio = $\frac{\text{Speed of Faster Pulley}}{\text{Speed of Slower Pulley}}$

$$SR = \frac{1200}{700}$$

$$\therefore SR = \underline{1,72 : 1} \quad \checkmark$$

Vir die Speedverhouding (SR):

Speedverh. = $\frac{\text{Spoed van Vinniger Katrol}}{\text{Spoed van Stadiger Katrol}}$

$$SR = \frac{1200}{700}$$

$$\therefore SR = \underline{1,72 : 1} \quad \checkmark \quad (1)$$

1.1.2

For the Service Factor (SF):

Consider:
Type of start = soft
Hours per day = 11

Read from TABLE 1

\therefore The service factor (SF) as 1,1 \checkmark

Vir die Diensfaktor (SF):

Oorweeg:
Tipe aanskakeling = sag/lig
Ure per dag = 11

Lees vanaf TABEL 1

\therefore Die diensfaktor (SF) as 1,1 $\checkmark \quad (1)$

1.1.3

For the Indicated Power (IP):

NB: Torque is been given!

$$\text{Indicated Power} = \frac{2 \cdot \pi \cdot NT}{60} \quad \checkmark$$

$$\therefore IP = \frac{2 \times \pi \times 1200 \times 398 \times 10^{-3}}{60} \quad \checkmark$$

$$= \underline{50 \text{ kW}} \quad \checkmark$$

Vir die Aangeduiddrywing (IP):

NB: Wringkrag is gegee!

$$\text{Aangeduiddrywing} = \frac{2 \cdot \pi \cdot NT}{60} \quad \checkmark$$

$$\therefore Pd = \frac{2 \times \pi \times 1200 \times 398 \times 10^{-3}}{60} \quad \checkmark$$

$$= \underline{50 \text{ kW}} \quad \checkmark \quad (3)$$

1.1.4

For minimum pulley diameter (d):

Refer to TABLE 2:

Consider:
N = 1200 r/min
& Design Power = 50 kW

$$\therefore d = \underline{180 \text{ mm}} \quad \checkmark$$

Vir minimum katroldiameter (d):

Verwys na TABEL 2:

Oorweeg:
N = 1200 r/min
& Ontwerp-drywing = 50kW

$$\therefore d = \underline{180 \text{ mm}} \quad \checkmark \quad (1)$$

1/5 2008/14/10/11/2/11

Mechanotechnology N3 Exam Papers Memorandum

VM Jensen



Mechanotechnology N3 Exam Papers Memorandum:

Mechanotechnology N3 SB ,2015 N3 Mechanotechnology ,2019

Mechanotechnology N3 Exam Papers Memorandum: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Mechanotechnology N3 Exam Papers Memorandum : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mechanotechnology N3 Exam Papers Memorandum : 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 weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular 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 captivating 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 an exceptional and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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