#### NOTE:

- · If a candidate answers a question/vraag TWICE, only mark the FIRST attempt.
- · Consistent accuracy applies in all aspects of the marking memorandum.

#### LET WEL:

- Indien 'n kandidaat 'n vraag TWEE keer beantwoord, merk slegs die EERSTE poging.
- Volgehoue akkuraatheid is DEURGAANS in ALLE aspekte van die memorandum van toepassing.

#### QUESTION/VRAAG 1

1.1.1	$3x^2 - 4x = 0$	
	x(3x-4)=0	✓ factors
	$x = \frac{4}{3}$ or $x = 0$	✓both answers (2)
1.1.2	$x - 6 + \frac{2}{x} = 0$ $x^2 - 6x + 2 = 0$	$\checkmark x^2 - 6x + 2 = 0$
	$x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4(1)(2)}}{2(1)}$ $= \frac{6 \pm \sqrt{28}}{2}$ $x = 0.35 \text{ or } x = 5.65$	✓ subs into correct formula  ✓ $x = 0.35$ ✓ $x = 5.65$
	OR	(4)
	$x - 6 + \frac{2}{x} = 0$ $x^{2} - 6x + 2 = 0$ $(x - 3)^{2} = -2 + 9$ $(x - 3) = \pm \sqrt{7}$ $x = 3 \pm \sqrt{7}$ $x = 0.35 \text{ or } x = 5.65$	√ x2 - 6x + 2 = 0 $ √ (x - 3)2 = -2 + 9 $ $ √ x = 0.35 $ $ √ x = 5.65 $ (4)
1.1.3	$x^{\frac{2}{3}} = 4$ ; $x > 0$ $x = (2^{\frac{3}{2}})^{\frac{3}{2}}$	$\checkmark x = (2^2)^{\frac{3}{2}}$
	x = 8 OR	✓ x = 8 (2)

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**L** Towne

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engagement International Handbook of Research on Multicultural Science Education Mary M.

Atwater, 2022-06-30 This handbook gathers in one volume the major research and scholarship related to multicultural science education that has developed since the field was named and established by Atwater in 1993 Culture is defined in this handbook as an integrated pattern of shared values beliefs languages worldviews behaviors artifacts knowledge and social and political relationships of a group of people in a particular place or time that the people use to understand or make meaning of their world each other and other groups of people and to transmit these to succeeding generations The research studies include both different kinds of qualitative and quantitative studies. The chapters in this volume reflect differing ideas about culture and its impact on science learning and teaching in different K 14 contexts and policy issues Research findings about groups that are underrepresented in STEM in the United States and in other countries related to language issues and indigenous knowledge are included in this volume Building Capacity for Teaching Engineering in K-12 Education National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division of Behavioral and Social Sciences and Education, Board on Science Education, Committee on Educator Capacity Building in K-12 Engineering Education, 2020-04-13 Engineering education is emerging as an important component of US K 12 education Across the country students in classrooms and after and out of school programs are participating in hands on problem focused learning activities using the engineering design process These experiences can be engaging support learning in other areas such as science and mathematics and provide a window into the important role of engineering in society As the landscape of K 12 engineering education continues to grow and evolve educators administrators and policy makers should consider the capacity of the US education system to meet current and anticipated needs for K 12 teachers of engineering Building Capacity for Teaching Engineering in K 12 Education reviews existing curricula and programs as well as related research to understand current and anticipated future needs for engineering literate K 12 educators in the United States and determine how these needs might be addressed Key topics in this report include the preparation of K 12 engineering educators professional pathways for K 12 engineering educators and the role of higher education in preparing engineering educators This report proposes steps that stakeholders including professional development providers postsecondary preservice education programs postsecondary engineering and engineering technology programs formal and informal educator credentialing organizations and the education and learning sciences research communities might take to increase the number skill level and confidence of K 12 teachers of engineering in the United States The Stanford Alumni Directory Oswaal CTET (CENTRAL TEACHERS ELIGIBILITY TEST) 15 previous years Solved papers PAPER - I (Classes 1 to ,1989 5) YEAR-WISE (2013 - 2023) For 2024 Exam Oswaal Editorial Board, 2023-10-19 Description of the Product 1 100% Updated with latest fully solved papers of Sept 2023 2 Extensive Practice with 2200 No of Questions in Each Subject 3 Crisp Revision with Smart Mind Maps 4 Valuable Exam Insights with Expert Tips to crack CTET in first attempt 5 Concept Clarity with 15

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