

MATHEMATICS N2 CLASS EXERCISE 1

QUESTION 1

- 1.1 Solve the following equations:
- 1.1.1 $-x^2 + 3x - 2 = 0$ by factorisation (3)
- 1.1.2 $6(2 - m) - 5(4 - m) = 7$ (3)
- 1.2 Given: the formula $p = \sqrt[3]{r^2 - q^2}$
- 1.2.1 Make ' r ' the subject of the formula (3)
- 1.2.2 Calculate the value of ' r ' if $p = 4$ and $q = 6$ (1)
- 1.3 Solve for ' x ' and ' y ' in the following simultaneous equations:
- $5x = 6y + 3$ and $3y - 4x + 1 = 0$ (4)
- [14]

QUESTION 2

- 2.1 A man deducted 3 from 5 times his age and got his grandmother's age.
If his grandmother is 97 years old, how old is the man? (2)
- 2.2 Given: $4x^2 - 15x - 47 = 0$
Solve for ' x ' the equation using the quadratic formula. (3)
- 2.3 Given: $H = \frac{7,5U}{273 + V}$
- 2.3.1 Make ' V ' the subject of the formula. (3)
- 2.3.2 Find the value of ' V ' if $U = 0,5$ and $H = 0,005$ (1)
- 2.4 Given: $8p - 1 = -2q$ and $2p + 3q = 4$
Solve for ' p ' and ' q ' (4)
- [13]

TOTAL: 27 MARKS

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Lisbet Rønningsbakk, Karen Blackmore

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16 Year's Solved Papers Karnataka CET Engineering Entrance Arihant Experts, 2019-08-02 Karnataka Examination Authority KEA conducts a state level examination called Karnataka Common Entrance Test KCET students who are seeking admission into professional under graduate courses related to Engineering Medicine Pharmacy Agriculture and Dentistry in its affiliated colleges Hereby presenting 16 Years Solved Papers Karnataka CET Engineering Entrance this book has been carefully prepared for the students who are preparing for KCET engineering Entrance exam Solved papers has been provided in this book from 2004 2019 which helps students to understand the latest pattern syllabus contains Authentic Analytical and Augmented AAA solutions of questions that been asked Physics Chemistry Mathematics in the KCET Engineering Entrance to make candidates confident enough to answer the questions With sufficient collection of solved papers for practice in this book candidates can attain the great rank in the examination **TABLE OF CONTENT** Solved Papers 2004 2019 2024-25 RRB Technician Grade-I Signal Engineering Mathematics Study Material and Question Bank YCT Expert Team , 2024 25 RRB Technician Grade I Signal Engineering Mathematics Study Material and Question Bank 224 495 *Tep Vol 26-N2* Teacher Education and Practice, 2013-11-25 Teacher Education and Practice a peer refereed journal is dedicated to the encouragement and the dissemination of research and scholarship related to professional education The journal is concerned in the broadest sense with teacher preparation practice and policy issues related to the teaching profession as well as being concerned with learning in the school setting The journal also serves as a forum for the exchange of diverse ideas and points of view within these purposes As a forum the journal offers a public space in which to critically examine current discourse and practice as well as engage in generative dialogue Alternative forms of inquiry and representation are invited and authors from a variety of backgrounds and diverse perspectives are encouraged to contribute Teacher Education Practice is published by Rowman Littlefield *Women in STEM Education* Lisbet Rønningsbakk, Karen Blackmore, 2023-12-05 We are delighted to present the inaugural Women in Education series of article collections At present less than 30% of researchers worldwide are women Long standing biases and gender stereotypes are discouraging girls and women away from science related fields and from pursuing a career in academia and in different professional environments especially when linked to STEM fields Science and gender equality are however essential to ensure sustainable development in all disciplines In order to change traditional mindsets gender equality must be promoted stereotypes defeated and girls and women should be encouraged to pursue academic careers Therefore Frontiers in Education is proud to offer this platform to promote the work of women scientists educators and professionals across all fields of STEM Education Female representation still needs to be improved in key roles in the field and the way in which an equitable education contributes to fairer and less biased academic and professional environments worldwide should be more investigated The work presented here highlights the diversity of research performed across the entire breadth of STEM Education research and presents advances in theory experiment and

methodology with applications to compelling problems

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