

Ethiopian University Entrance Examination (EUEE)
Mathematics for Natural Science Stream
GINBOT 2011/JUNE 2019

BOOKLET CODE: 15
Number of Items: 65

SUBJECT CODE: 02
Time Allowed: 3 hours

DIRECTIONS: For each of the following problems, choose the best answer from the given alternatives and carefully **blacken** the letter of your best choice on the separate answer sheet provided.

- Which one of the following is the set of critical numbers of $f(x) = \frac{2}{3}x^3 - 4x^2 + 3$?
 (A) $\{-2, 2\}$ (B) $\{-1, 1\}$ (C) $\{1, 0, 1\}$ (D) $\{-2, 0, 2\}$
- What is the greatest lower bound of the sequence $\left\{(-1)^n \frac{1}{n+1}\right\}_{n=0}^{\infty}$?
 (A) -1 (B) 0 (C) $-1/2$ (D) $1/2$
- Which one of the following is true about the pair of lines $3x + 9y - 24 = 0$ and $4x + 12y + 32 = 0$?
 (A) perpendicular lines (C) parallel and distinct lines
 (B) intersecting lines (D) representing the same lines
- Which one of the following is equal to $f(x) = \sqrt{(x+4)^2}$, for every $x \in \mathbb{R}$?
 (A) $g(x) = x + 4$ (B) $g(x) = |x + 4|$
 (C) $g(x) = x + 2$ (D) $g(x) = |x + 4|$

BOOKLET CODE: 15

3

SUBJECT CODE: 02

- The center of a circle on the line $y = 2x$ and the line $x = 1$ is tangent to the circle at $(1, 6)$. How long is the radius of the circle?
 (A) 5 (B) 4 (C) 3 (D) 2
- What is the value of $\lim_{x \rightarrow 0} \left(\frac{x^2 + 2}{x^2} \right)$?
 (A) 1 (B) 0 (C) ∞ (D) $\frac{1}{2}$
- If $F(x) = \int_0^x e^{-t} dt$, then what is the value of $F'(x)$?
 (A) e^{-x} (B) $-e^{-x} - 1$ (C) $\frac{e^{-x+1}}{-x+1}$ (D) $-e^{-x}$
- If $\frac{p}{q} > r$ is False and $p < q$ is True, then which of the following is True?
 (A) $\frac{p}{q} < \frac{r}{q}$ (B) $\frac{p}{q} > \frac{r}{q}$ (C) $\frac{p}{q} < \frac{q}{r}$ (D) $\frac{p}{q} > \frac{q}{r}$
- If $a_1 = 2, a_2 = 6, a_3 = 10, a_4 = 14, \dots$, then $\sum_{n=1}^{100} a_n =$ _____
 (A) 20,020 (B) 20,300 (C) 20,000 (D) 22,000
- What is the value of $\lim_{k \rightarrow \infty} \left(\frac{1}{k} + \frac{1}{k^2} + \frac{1}{k^3} + \dots \right)$?
 (A) 0 (B) 4 (C) The limit does not exist (D) 2
- If there are two children in a family, what is the probability that there is at least one girl in the family?
 (A) $\frac{1}{2}$ (B) $\frac{1}{4}$ (C) $\frac{3}{4}$ (D) $\frac{1}{8}$

Ethiopia Matric Question

Jiyuan Zhang



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Table of Contents Ethiopia Matric Question

1. Understanding the eBook Ethiopia Matric Question
 - The Rise of Digital Reading Ethiopia Matric Question
 - Advantages of eBooks Over Traditional Books
2. Identifying Ethiopia Matric Question
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ethiopia Matric Question
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ethiopia Matric Question
 - Personalized Recommendations
 - Ethiopia Matric Question User Reviews and Ratings
 - Ethiopia Matric Question and Bestseller Lists

5. Accessing Ethiopia Matric Question Free and Paid eBooks
 - Ethiopia Matric Question Public Domain eBooks
 - Ethiopia Matric Question eBook Subscription Services
 - Ethiopia Matric Question Budget-Friendly Options
6. Navigating Ethiopia Matric Question eBook Formats
 - ePub, PDF, MOBI, and More
 - Ethiopia Matric Question Compatibility with Devices
 - Ethiopia Matric Question Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ethiopia Matric Question
 - Highlighting and Note-Taking Ethiopia Matric Question
 - Interactive Elements Ethiopia Matric Question
8. Staying Engaged with Ethiopia Matric Question
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ethiopia Matric Question
9. Balancing eBooks and Physical Books Ethiopia Matric Question
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ethiopia Matric Question
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ethiopia Matric Question
 - Setting Reading Goals Ethiopia Matric Question
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ethiopia Matric Question
 - Fact-Checking eBook Content of Ethiopia Matric Question
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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