

**POLYCET – 2014**Hall Ticket Number

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Signature of the Candidate

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Time : 2 Hours**Total Marks : 120****Note :** Before answering the questions, read carefully the instructions given on the OMR sheet

ప్రశ్నలకు జవాబులు ప్రాయోగికము ముందు OMR జవాబు పత్రములో జన్యపరిచిన సూచనలను జాగ్రత్తగా చదవండి.

SECTION - I : MATHEMATICS

1. In a triangle ABC , $\angle A = 90^\circ$, $\overline{AD} \perp \overline{BC}$, if $AC = 10\sqrt{3}$, $BD = 5$, $DC = x$, then the value of x is

ABC త్రిభుజములో $\angle A = 90^\circ$, $\overline{AD} \perp \overline{BC}$, $AC = 10\sqrt{3}$, $BD = 5$, $DC = x$ అయితే x విలువ =

- (1) 15 (2) 10 (3) 20 (4) $5\sqrt{3}$

2. If $(1, 2)$, $(-1, 4)$ and $(7, -k)$ are collinear, then $k =$

$(1, 2)$, $(-1, 4)$ మరియు $(7, -k)$ లు సరేఖీయాలయితే k విలువ

- (1) 1 (2) -1 (3) 2 (4) 4

3. The slope of the line which makes $\frac{3\pi}{4}$ with the +ve direction of x -axis is

x - అక్షముతో $\frac{3\pi}{4}$ చేసే రేఖలో $\frac{3\pi}{4}$ కోణము చేసే సరేఖలో వాలు =

- (1) 1 (2) -1 (3) 2 (4) 3

4. The nature of the lines $7x + 5y + 6 = 0$ and $5x - 7y + 6 = 0$ is

$7x + 5y + 6 = 0$ మరియు $5x - 7y + 6 = 0$ రేఖలు

- (1) parallel. (2) concurrent
సమాంతరాలు మిళిత రేఖలు
(3) perpendicular (4) None
లంబ రేఖలు ఏదీ కావు

SPACE FOR ROUGH WORK / చిత్తపనికి కేటాయించబడిన స్థలము

Polytechnic Entrance Exam Question Answer Paper

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Table of Contents Polytechnic Entrance Exam Question Answer Paper

1. Understanding the eBook Polytechnic Entrance Exam Question Answer Paper
 - The Rise of Digital Reading Polytechnic Entrance Exam Question Answer Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Polytechnic Entrance Exam Question Answer Paper
 - 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 Polytechnic Entrance Exam Question Answer Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Polytechnic Entrance Exam Question Answer Paper
 - Personalized Recommendations
 - Polytechnic Entrance Exam Question Answer Paper User Reviews and Ratings
 - Polytechnic Entrance Exam Question Answer Paper and Bestseller Lists

5. Accessing Polytechnic Entrance Exam Question Answer Paper Free and Paid eBooks
 - Polytechnic Entrance Exam Question Answer Paper Public Domain eBooks
 - Polytechnic Entrance Exam Question Answer Paper eBook Subscription Services
 - Polytechnic Entrance Exam Question Answer Paper Budget-Friendly Options
6. Navigating Polytechnic Entrance Exam Question Answer Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Polytechnic Entrance Exam Question Answer Paper Compatibility with Devices
 - Polytechnic Entrance Exam Question Answer Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Polytechnic Entrance Exam Question Answer Paper
 - Highlighting and Note-Taking Polytechnic Entrance Exam Question Answer Paper
 - Interactive Elements Polytechnic Entrance Exam Question Answer Paper
8. Staying Engaged with Polytechnic Entrance Exam Question Answer Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Polytechnic Entrance Exam Question Answer Paper
9. Balancing eBooks and Physical Books Polytechnic Entrance Exam Question Answer Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Polytechnic Entrance Exam Question Answer Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Polytechnic Entrance Exam Question Answer Paper
 - Setting Reading Goals Polytechnic Entrance Exam Question Answer Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Polytechnic Entrance Exam Question Answer Paper
 - Fact-Checking eBook Content of Polytechnic Entrance Exam Question Answer Paper
 - 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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web an example of congruent triangles is two equilateral triangles with a side of length 6cm equilateral triangles have all sides of the same length so this means two such triangles with a side of the same length are congruent all of the sides and angles are equal between the two triangles

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