







# **CERTIFICATION PROGRAMME**

On

**Quick Mathematics** 

From

22<sup>nd</sup> September 2022 to 17<sup>th</sup> November 2022 Convener: Mr. Abhay N Tripathi, Associate Professor

For BCA 5th Semester

**Resource Person** 

Mr. Himanshoo Tiwari

Assistant Professor, MIET



Greater Noida (U.P.)



# **Syllabus**

#### QUICK MATHEMATICS

#### Module: 1

**Arithmetic-** Time & Work, Percentage, Average, Age, Speed, Ratio & Proportion, Time & Distance. Pipes & Cisterns, Mixtures, Alligation, Profit & Loss, Discount, Train, Boats & Streams

#### Module: 2

Algebra - Sequence & Series, Quadratic Equation, Permutation & Combination, Inequalities

#### Module: 3

**Number System -** BODMAS and Simplification, HCF & LCM and Product of Numbers, Unit's Digit Theorem and Number of Zeros, Divisibility Rules, Remainder Theorem

### Module: 4

Mensuration- 2D figures: Rhombus, Triangles, Square, Trapezium, Parallelograms

#### **Reference Book:**

- Objective Mathematics by R.D. Sharma
- Quantitative Aptitude by R . S Agarawal

#### **Duration: 30 hours**





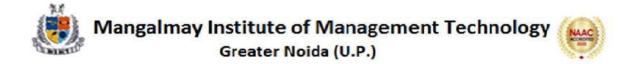
Schedule Duration: 30 hours				
1.	Time & Work	03:00-5:00 PM	22-Sep-22	
2.	Percentage	03:00-5:00 PM	23-Sep-22	
3.	Average	03:00-5:00 PM	29-Sep-22	
4.	Age, Speed, Ratio & Proportion	03:00-5:00 PM	30-Sep-22	
5.	Time & Distance	03:00-5:00 PM	06-Oct-22	
6.	Pipes & Cisterns, Mixtures	03:00-5:00 PM	07-Oct-22	
7.	Profit & Loss, Discount	03:00-5:00 PM	13-Oct-22	
8.	Train, Boats & Streams	03:00-5:00 PM	14-Oct-22	
9.	Sequence & Series	03:00-5:00 PM	20-Oct-22	
10.	Quadratic Equation, Permutation & Combination	03:00-5:00 PM	21-Oct-22	
11.	Inequalities	03:00-5:00 PM	03-Nov-22	
12.	BODMAS and Simplification, HCF & LCM and Product of Numbers	03:00-5:00 PM	04-Nov-22	
13.	Unit's Digit Theorem and Number of Zeros, Divisibility Rules, Remainder Theorem	03:00-5:00 PM	10-Nov-22	
14.	Rhombus, Triangles	03:00-5:00 PM	11-Nov-22	
15.	Square, Trapezium, Parallelograms	03:00-5:00 PM	17-Nov-22	



Mangalmay Institute of Management Technology Greater Noida (U.P.)



Name of Activity         Quick Mathematics           Date         22 <sup>nd</sup> September 2022 to 17 <sup>th</sup> November 2022           Venue         BCA Classroom           Organized by         Computer Application Department           Resource Person         Mr. Himanshoo Tiwari, Assistant Professor, MIET           Beneficiary         BCA 5th Semester (47)           Coordinator         Mr. Abhay N Tripathi, Associate Professor, MIMT           Objective         This course on QUICK MATHEMATICS:           •         Students will be capable to quickly adapt the knowledge of solving logical questions.           •         It consists of theory of basic knowledge of maths, concept to solve mathematical problem for competitive exams.           Content         With the initiative of IQAC, Mangalmay Institute of Management and Technology organized add on certification course on "QUICK MATHEMATICS".           Day1: The session started with the introduction of Quick Mathematics and the concept of Time and Work problem solving.           Day2: In this session, the student came to know about Average and question based on it.           Day3: Student learnt Time & Distance concept.           Day 5: Student learnt Time & Distance concept.           Day 5: Student learnt Time & Distance concept.           Day 6: Pipes & Cisterns, Mixtures problem solving session delivered by the resource person discussed about the Profit & Loss, Discount with some practical and real life examples.		Report			
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• The candidates will be able to apply the knowledge of basic math's and techniques in the field of Competitive Exams for solving problems.					
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		* *			
		solving problems.			
• Candidate will be able to analyze the various concepts & trics		• Candidate will be able to analyze the various concepts & trics			
associated with Quick Mathematics and will be able think		associated with Quick Mathematics and will be able think			
logically to solve questions, easily able to relate discussed		logically to solve questions, easily able to relate discussed			
concept in real life problems.		concept in real life problems.			

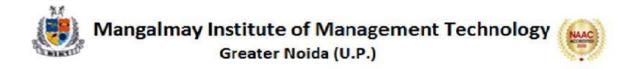


## **Resource Person Profile**

Name : Mr. Himanshoo Tiwari, Asst. Professor, MIET Core Skills: Mathematics Qualification: BSc, MSc. Experience: 02 years Research Area: Non Linear PDE, Numerical Analysis.

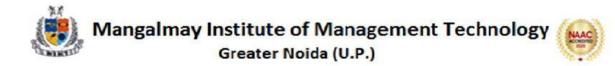


Figure 1 Mr. Himanshoo Tiwari during his session



## **Certificate Template:**



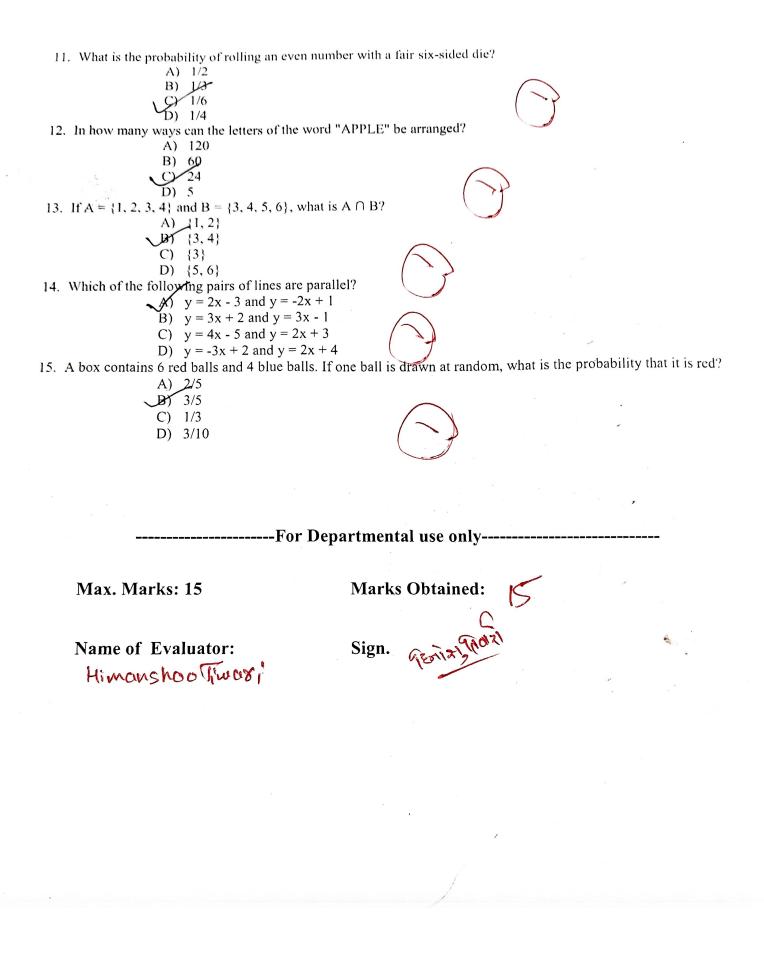




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8	Manga	almay Institute of Manageme Greater Noida (U.P.)	
Cours	e:BCA	ADD-ON COURSE QUIZ Course Name: Quick Mathematics	Time:30 Min Date:
D	T	Name Hat MA (NOAG	Year/Sem: III/V
Roll No:		Name: Marsh Garg	Invigilator's Sign:
Not	te: All questions are	compulsory. Each question will carry'1'mar	k and there is no regarive warking
1.	How long will it tak	e for a car traveling at 60 miles per hour to travel	150 miles?
	a. 2.5 hours		r
	J. 3 hours		
	c. 4 hours d. 5 hours		
2.	If the price of a com	modity increases by 20%, by how much percent	must its consumption be reduced so as not to
	increase the expend	iture?	
	a. 10%		$\langle \langle \rangle \rangle$
	b. 16.67%		
	c. 20% d. 25%		
3.		of a cube with a side length of 5 cm?	
	a. 15 cm <sup>3</sup>		(1)
	b. $25 \text{ cm}^3$		
	c. 100 cm <sup>3</sup>		
4.	•	speed of 50 km/h, how far will it travel in 2.5 ho	ours?
	a100 km		
	b. 125 km		
	c. 150 km d. 175 km		
5.		of a book is \$40 and after discount it is sold at \$	32, what is the discount percentage?
	a. 10%		
	b. 15%		
	d. 25%		
6.		Common Factor (HCF) of 36 and 48?	
	a 12		
	$V_{b.6}$		
	c. 18		
7	d. 24 Find the next much	an in the environ 2.5, 10, 17, 24, 0	
7.	a. 35	er in the series: 2, 5, 10, 17, 26, ?	
	, b. 37		
	C. 39		
	d. 41		
8.	Solve: $12 \div 3 \times (4 + 1)$	- 2) - 5	
	a. 19 b 5	· ·	$\left( \begin{array}{c} \mathbf{x} \end{array} \right)$
	b. 5 c. 13		
	d. 7		
9.	What is the name o	f a triangle with all three sides of different leng	the?
	a. Equilatera	l triangle	
	b. Isosceles t		
	d. Right triar		
10.		igle d 20 is 60. What is their HCF?	
	a. 5	20 is 00. what is their HCF?	
	b. 10		
	15		(-f) f
	d. 20		

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#### Mangalmay Institute of Management Technology Greater Noida (U.P.)

Course:BCA

Roll No:

ADD-ON COURSE QUIZ Course Name: Quick Mathematics

Name: Lakshyg Bansal

Time:30 Min Date:

Year/Sem: III/V Invigilator's Sign:\_\_\_

Note: All questions are compulsory. Each question will carry'1'mark and there is no 'Negative Marking'

- 1. How long will it take for a car traveling at 60 miles per hour to travel 150 miles?
  - a. 2.5 hours
  - b 3 hours
  - c. 4 hours
  - d. 5 hours
- 2. If the price of a commodity increases by 20%, by how much percent must its consumption be reduced so as not to increase the expenditure?

. .

- **A**. 10%
  - b. 16.67%
  - c. 20%
  - d. 25%
- 3. What is the volume of a cube with a side length of 5 cm?
  - a. 15 cm<sup>3</sup>
  - b. 25 cm<sup>3</sup>
  - c. 100 cm<sup>3</sup>
  - 125 cm<sup>3</sup>
- 4. If a train travels at a speed of 50 km/h, how far will it travel in 2.5 hours?
  - a. 100 km
  - h. 125 km
  - c. 150 km
  - d. 175 km
- 5. If the original price of a book is \$40 and after discount it is sold at \$32, what is the discount percentage?
  - a. 10%
  - b. 15%
  - 20%
- d. 25%6. What is the Highest Common Factor (HCF) of 36 and 48?
  - a. 12
  - b. 6
  - c. 18
  - d. 24
- 7. Find the next number in the series: 2, 5, 10, 17, 26, ?
  - a. 35
  - b. 37
  - 39
  - d. 41
- 8. Solve:  $12 \div 3 \times (4 + 2) 5$ 
  - a. 19 b. 5
  - b. 5

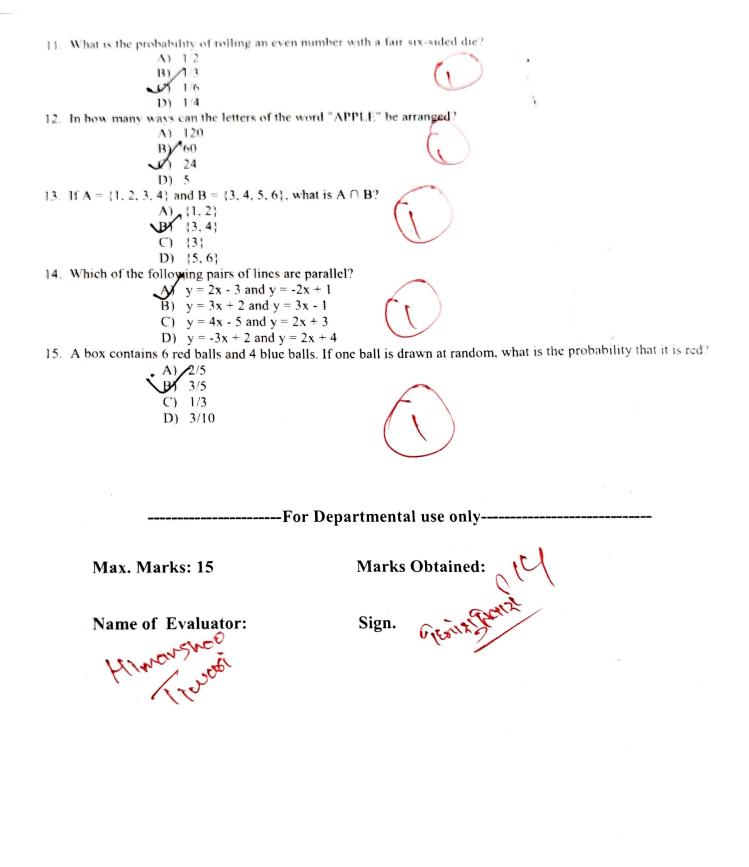
d. 7

9. What is the name of a triangle with all three sides of different lengths?

- a. Equilateral triangle
- b. Isosceles triangle
- Scalene triangle

d. Right triangle

- 10. The LCM of 15 and 20 is 60. What is their HCF?
  - a. 5 b. 10
  - d. 20



Mangalmay Institute of Management Technology Greater Noida (U.P.)			
Course:BCA	ADD-ON COURSE QUIZ Course Name: Quick Mathematics	Time:30 Min Date:	
Roll No:	Name: Sori	Year/Sem: III/V	
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Note: All questions are co	ompulsory. Each question will carry <b>1</b> If	nark and there is no 'Negative Marking'	
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1. How long will it take $f$ a. $2.5$ hours	of a car davening at oo nines per maar te sta		
b. 3 hours		(1)	
c. 4 hours d. 5 hours			
d. 5 hours 2. If the price of a commo	odity increases by 20%, by how much percent	nt must its consumption be reduced so as not to	
increase the expenditur	re?		
a 10%		(1)	
b. 16.67% c. 20%			
d. 25%			
	a cube with a side length of 5 cm?	$\sim$	
a. 15 cm <sup>3</sup> b. 25 cm <sup>3</sup>			
c. $\int 00 \text{ cm}^3$			
d 125 cm <sup>3</sup>	beed of 50 km/h, how far will it travel in 2.5	hours?	
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c. 150 km			
d. 175 km 5. If the original price of	a book is \$40 and after discount it is sold at	t \$32, what is the discount percentage?	
a. 10%			
b. 15%			
d. 25%			
6. What is the Highest Co	ommon Factor (HCF) of 36 and 48?		
a. 12		$\checkmark$ ( $\bigcirc$ )	
b. 6 c. 18			
d. 24			
	in the series: 2, 5, 10, 17, 26, ?		
a. 35			
b. $\frac{37}{39}$		X	
d. 41			
8. Solve: $12 \div 3 \times (4 + 2)$	) - 5		
a. 19 b 5		(1)	
0. 0			
d. 7			
9. What is the name of a	triangle with all three sides of different ler	ngths?	
a. Equilateral tr b. Isosceles tria		$\left( \right)$	
Scalene trian			
d. Right triangle	8		
- · · · · · · · · · · · · · · · · · · ·	0 is 60. What is their HCF?		
a. 5 b. 1 <del>0</del>		$\sim$	
15		(1)	
d. 20			

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11. What is the probability of rolling an even number with a fair six-sided die? A) 1/2 13 B) C 1/6 12. In how many ways can the letters of the word "APPLE" be arranged? A) 120 B) 60 24 D) 5 13. If  $A = \{1, 2, 3, 4\}$  and  $B = \{3, 4, 5, 6\}$ , what is  $A \cap B$ ? A) (1, 2) BX {3,4} C) {3} D) {5, 6} 14. Which of the following pairs of lines are parallel? (A) y = 2x - 3 and y = -2x + 1(B) y = 3x + 2 and y = 3x - 1(C) y = 4x - 5 and y = 2x + 3D) y = -3x + 2 and y = 2x + 415. A box contains 6 red balls and 4 blue balls. If one ball is drawn at random, what is the probability that it is red? A) /2/5 BY 3/5 C) 1/3 D) 3/10

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Sign.

Max. Marks: 15

Marks Obtained:

6

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Name of Evaluator:

Himanshoo Tiwari

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111-63 11-0			Invigilator's Sign:	CEON
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		C. T. M.		
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