



# BIRLA PUBLIC SCHOOL GANGANAGAR

(A Unit of Birla Education Trust Pilani)

(A step ahead.....)

CBSE Affiliation No. 1730974

## MATHEMATICS

(Note-Accordingly CBSE Examination Guidelines)

### CLASS III

### BLUEPRINT

Category of question	Marks	Percentage
<b>Understanding:</b> Questions designed to access the memory and understanding of the concept.	20	40%
<b>Reasoning:</b> Application of Knowledge and Concepts facts, techniques and rules in a different way to solve problems.	15	30%
<b>Analytical:</b> Questions that help students analyze, evaluate and create solutions.	15	30%

### PAPER PATTERN

**Total Marks- 50**

**Time duration- 3 Hrs.**

**Subjective- 100% (50 marks)**

- A. The question paper contains 4 pages.
- B. Total number of questions is 25.
- C. The question paper contains three parts - Section A, B, and C.
- D. Section A consists of 8 questions of 1 mark each.
- E. Section B consists of 9 questions of 2 marks each.
- F. Attempt any 8 questions from Section C of 3 marks each.

Sr. No	CH. - NO.	CHAPTER NAME	1 Mark	2 Marks	3 Marks
1.	Ch. 1	Where to Look From?	Ch.1 & Ch.2 are already assessed in PT-1.		
2.	Ch. 2	Fun with Number			
3.	Ch. 3	Give and Take	2	2	1
4.	Ch. 4	Long and Short	1	1	2
5.	Ch. 5	Shapes and Designs	2	2	1
6.	Ch. 6	Fun with give and take	1	2	2
7.	Ch. 7	Time goes on	2	2	2
<b>Total no. of questions</b>	-	-	8	9	8
<b>Total marks</b>	-	-	8 X 1= 8	9 X 2=18	8 X 3=24



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## CLASS IV BLUEPRINT

Category of question	Marks	Percentage
<b>Understanding:</b> Questions designed to access the memory and understanding of the concept.	20	40%
<b>Reasoning:</b> Application of Knowledge and Concepts facts, techniques and rules in a different way to solve problems.	15	30%
<b>Analytical:</b> Questions that help students analyze, evaluate and create solutions.	15	30%

## PAPER PATTERN

**Total Marks- 50**

**Time duration- 3 Hrs.**

**Subjective- 100% (50 marks)**

- A. The question paper contains 3 pages.
- B. Total number of questions is 25.
- C. The question paper contains three parts- Section A, B and C.
- D. Section A consists of 8 questions of 1 mark each.
- E. Section B consists of 9 questions of 2 marks each.
- F. Attempt any 8 questions from Section C of 3 marks each.

Sr. No	CH. - NO.	CHAPTER NAME	1 Mark	2 Marks	3 Marks
1.	Ch. 1	Building With Bricks	Ch.1 & Ch.2 are already assessed in PT-1.		
2.	Ch. 2	Long and Short			
3.	Ch. 3	A trip to Bhopal	2	1	2
4.	Ch. 4	Tick-Tick-Tick	2	2	2
5.	Ch. 5	The way the world looks	2	2	1
6.	Ch. 6	The Junk Seller	1	2	1
7.	Ch. 7	Jugs and Mugs	1	2	2
Total no. of questions	-	-	8	9	8
Total marks	-	-	8 X 1 = 8	9 X 2 = 18	8 X 3 = 24



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## CLASS V

### BLUEPRINT

Category of question	Marks	Percentage
<b>Understanding-</b> Questions designed to access the memory and understanding of the concept.	20	40%
<b>Reasoning-</b> Application of knowledge and concepts facts, techniques, and rules in a different way to solve problems.	15	30%
<b>Analytical-</b> Questions that help students analyse, evaluate and create solutions.	15	30%

### PAPER PATTERN

**Total Marks- 50**

**Time duration- 3 Hrs.**

**Subjective- 100% (50 marks)**

- A. The question paper contains 3 pages.  
 B. Total number of questions is 25.  
 C. The question paper contains three parts- Section A, B, and C.  
 D. Section A consists of 8 questions of 1 mark each.  
 E. Section B consists of 9 questions of 2 marks each.  
 F. Attempt any 8 questions from Section C of 3 marks each.

Sr. No	CH. - NO.	CHAPTER NAME	1 Mark	2 Marks	3 Marks
1.	Ch. 1	The Fish Tail	Ch.1 & Ch.2 are already assessed in PT-1.		
2.	Ch. 2	Shapes and Angles			
3.	Ch. 3	How many Squares	2	2	1
4.	Ch. 4	Parts and Wholes	1	2	2
5.	Ch. 5	Does It Look the Same	2	2	1
6.	Ch. 6	Be my multiple, I'll be your factor	2	1	2
7.	Ch. 7	Can you see the Pattern	1	2	2
<b>Total no. of questions</b>	-	-	8	9	8
<b>Total marks</b>	-	-	8 X 1 = 8	9 X 2 = 18	8 X 3 = 24





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## CLASS VI BLUEPRINT

Category of question	Marks	Percentage
<b>Remembering:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts. <b>Understanding:</b> Demonstrate understanding of facts and ideas by organizing, comparing.	43	54%
<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	19	24%
<b>Analysing :</b> Examine and break information into parts by identifying motives or causes. <b>Evaluating:</b> Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. <b>Creating:</b> Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions	18	20%
	80	100%

### PAPER PATTERN

Time duration- 3:00 Hrs.

Subjective- 100% (80 marks)

- A. Total number of questions is 31.
- B. The question paper contains four parts A, B, C and D.
- C. Section A consists of 8 questions of 1 mark each.
- D. Section B consists of 9 questions of 2 marks each.
- E. Attempt any 8 questions from Section C of 3 marks each.
- F. Attempt any 6 questions from Section D of 5 marks each.

Sr. No	CHAPTER NAME	1 Mark	2 Marks	3 Marks	5 Marks	Total
1.	Ch. 1- Knowing Our Numbers	02	01	01	01	12
2.	Ch. 2- Whole Numbers	01	02	01		6
3.	Ch.3-Playing With Numbers	02	01	02	02	20
4.	Ch.4- Basic Geometrical ideas	01	01	-	01	8
5.	Ch.5-Understanding Elementary Shapes	01	02	02	01	16
6.	Ch.6-Integers	01	02	02	01	16
Total no. of questions		08	09	08	06	31
Total marks		8 X 1= 8	9 X 2= 18	8 X 3=24	6 x 5= 30	80



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## CLASS VII BLUEPRINT

Category of question	Marks	Percentage
<b>Remembering:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts. <b>Understanding:</b> Demonstrate understanding of facts and ideas by organizing, comparing.	43	54%
<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	19	24%
<b>Analysing :</b> Examine and break information into parts by identifying motives or causes. <b>Evaluating:</b> Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. <b>Creating:</b> Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions	18	20%
	80	100%

### PAPER PATTERN

Time duration- 3:00 Hrs.

**Subjective- 100% (80 marks)**

**G.** Total number of questions is 31.

**H.** The question paper contains four parts A, B, C and D.

**I.** Section A consists of 8 questions of 1 mark each.

**J.** Section B consists of 9 questions of 2 marks each.

**K.** Attempt any 8 questions from Section C of 3 marks each.

**L.** Attempt any 6 questions from Section D of 5 marks each.

Sr. No	CHAPTER NAME	1 Mark	2 Marks	3 Marks	5 Marks	Total
1.	Ch. 1- Integers	01	-	01	01	09
2.	Ch. 2- Fraction and Decimals	01	02	01		08
3.	Ch.3- Data Handling	-	02	01	02	17
4.	Ch.4-Simple Equations	02	02	02	01	17
5.	Ch.5-Lines and Angles	02	02	01	01	14
6.	Ch.6-Triangles and Its Properties	02	01	02	01	15
Total no. of questions		08	09	08	06	31
Total marks		8 X 1= 8	9 X 2= 18	8 X 3=24	6 x 5= 30	80



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## CLASS VIII BLUEPRINT

Category of question	Marks	Percentage
<b>Remembering:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts. <b>Understanding:</b> Demonstrate understanding of facts and ideas by organizing, comparing.	43	54%
<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	19	24%
<b>Analysing :</b> Examine and break information into parts by identifying motives or causes. <b>Evaluating:</b> Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. <b>Creating:</b> Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions	18	20%
	80	100%

## PAPER PATTERN

Total Marks- 80

Time duration- 3:00 Hrs.

Subjective- 100% (80 marks)

- A. Total number of questions is 31.
- B. The question paper contains four parts A, B, C and D.
- C. Section A consists of 8 questions of 1 mark each.
- D. Section B consists of 9 questions of 2 marks each.
- E. Attempt any 8 questions from Section C of 3 marks each.
- F. Attempt any 6 questions from Section D of 5 marks each.

Sr. No	CHAPTER NAME	1 Mark	2 Marks	3 Marks	5 Marks	Total
1.	Ch. 1- Rational Numbers	01	02	01		8
2.	Ch. 2- Linear Equations in One Variable	01	01	01	01	11
3.	Ch.3- Quadrilaterals	02	02	01	01	14
4.	Ch.4- Data Handling	01	01	01	01	11
5.	Ch.5- Square and square roots	01	01	02	02	19
6.	Ch.6- Cubes and cube root	02	02	02	01	17
Total no. of questions		08	09	08	06	31
Total marks		8 X 1= 8	9 X 2= 18	8 X 3=24	6 x 5= 30	80





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### CLASS IX

### BLUEPRINT

Category of question	Marks	Percentage
<b>Remembering:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts. <b>Understanding:</b> Demonstrate understanding of facts and ideas by organizing, comparing.	43	54%
<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	19	24%
<b>Analysing :</b> Examine and break information into parts by identifying motives or causes. <b>Evaluating:</b> Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. <b>Creating:</b> Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions	18	20%
	80	100%

### PAPER PATTERN

**Total Marks- 80**

**Time duration- 3 Hrs.**

#### General Instructions:

1. This Question Paper has 5 Sections A, B, C, D, and E.
2. Section A has 18 MCQ's and 02 Assertion Reason based questions of 1 mark each. .
3. Section B has 5 Short Answer-I (SA-I) type questions carrying 2 marks each.
4. Section C has 6 Short Answer-II (SA-II) type questions carrying 3 marks each.
5. Section D has 4 Long Answer (LA) type questions carrying 5 marks each.
6. Section E has 3 sourced based/Case Based/passage based/integrated units of assessment (4 marks each) with sub-parts of the values of 1, 1 and 2 marks each respectively.
7. Draw neat figures wherever required. Take  $\pi = 22/7$  wherever required if not stated.

Sr. No	CHAPTER NAME	1 MCQ	2 Marks	3 Marks	5 Marks	4 Marks	Total
1.	Ch - 1. Number System.	4	1	1	1	1	18
2.	Ch -2. Polynomial	4	2	1	1		16
3.	Ch -3. Coordinate Geometry.	4		1		1	11
4.	Ch - 4 Linear Equation in two variable.	4	1	1	1	1	18
5.	Ch -5. Euclid Geometry		1	1			5
6.	Ch -6. Lines and Angles.	4		1	1		12
<b>Total no. of questions</b>		20	5	6	4	3	38
<b>Total marks</b>		20	10	18	20	12	80



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## CLASS X BLUEPRINT

Category of question	Marks	Percentage
<b>Remembering:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts.	43	54%
<b>Understanding:</b> Demonstrate understanding of facts and ideas by organizing, comparing.		
<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	19	24%
<b>Analysing :</b> Examine and break information into parts by identifying motives or causes.	18	20%
<b>Evaluating:</b> Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria.		
<b>Creating:</b> Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions		
	80	100%

### PAPER PATTERN

Total Marks- 80

Time duration- 3 Hrs.

#### General Instructions:

1. This Question Paper has 5 Sections A, B, C, D, and E.
2. Section A has 18 MCQ's and 02 Assertion Reason based questions of 1 mark each.
3. Section B has 5 Short Answer-I (SA-I) type questions carrying 2 marks each.
4. Section C has 6 Short Answer-II (SA-II) type questions carrying 3 marks each.
5. Section D has 4 Long Answer (LA) type questions carrying 5 marks each.
6. Section E has 3 sourced based/Case Based/passage based/integrated units of assessment (4 marks each) with sub-parts of the values of 1, 1 and 2 marks each respectively.
7. Draw neat figures wherever required. Take  $\pi = 22/7$  wherever required if not stated.

Sr. No	CHAPTER NAME	1 MCQ	2 Marks	3 Marks	5 Marks	4 Marks	Total
1.	Ch -1 Real Number	3		1		1	10
2.	Ch -2 Polynomial	3	1	1	1		13
3.	Ch -3 Linear Equation in two variable	2		1	1	1	14
4.	Ch -4 Quadratic equation	3	1	1	1		13
5.	Ch -5 Arithmetic progression	3	1	1	1		13
6.	Ch - 6 Triangle	3	1	1			8
7.	Ch - 7 Coordinate Geometry	3	1			1	9
<b>Total no. of questions</b>		20	5	6	4	3	38
<b>Total marks</b>		20	10	12	20	12	80





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## CLASS XI BLUEPRINT

Category of question	Marks	Percentage
<b>Remembering:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts. <b>Understanding:</b> Demonstrate understanding of facts and ideas by organizing, comparing.	43	54%
<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	19	24%
<b>Analysing :</b> Examine and break information into parts by identifying motives or causes. <b>Evaluating:</b> Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. <b>Creating:</b> Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions	18	20%
<b>Total</b>	80	100%

### PAPER PATTERN

**Time duration- 3 Hrs.**

#### **General Instructions :**

1. This Question paper contains - five sections A,B,C,D and E. Each section is compulsory. However, there is some internal choice in some questions.
2. Section A has 18 MCQ's and 02 Assertion Reason based questions of 1 mark each.
3. Section B has 5 Very Short Answer (VSA) questions of 2 marks each.
4. Section C has 6 Short Answer (SA) questions of 3 marks each.
5. Section D has 4 Long Answer (LA) questions of 5 marks each.
6. Section E has 3 source based/case based/passage based/integrated units of assessment.
7. Internal Choice is provided in 2 questions in Section-B, 2 questions in Section-C, 2 Questions in Section-D. You have to attempt only one alternative in all such questions.

Sr. No	CHAPTER NAME	1 MCQ	2 Marks	3 Marks	5 Marks	4 Marks	Total
1.	Ch-1 Set	3	1	1			8
2.	Ch-2 Relation and Function	3	1	1		1	12
3.	Ch - 4 Complex number and Quadratic Equation	3	1	1	1		13
4.	Ch- 6 Permutation and Combination	3	1		1	1	14
5.	Ch - 8 Sequence and Series	3	1	1	1		13
6.	Ch - 9 Straight Line	3		1	1		11
7.	Ch - 10 Conic Section	2				1	9
<b>Total no. of questions</b>		20	5	6	4	3	38
<b>Total marks</b>		20	10	18	20	12	80