	B	C	D	E	F	G
1		N. C. JINDAL PUBLIC SCHOOL,PUNJABI BAGH, NEW DELHI-110026, ANNUAL CURRICULUM, 2024-25				
2	ed-Mathematic:	Subject Teacher(Prepared by): KP		Designation: TGT		
3	hapter name	Chapter Topic/Sub Topic	Term	StartDate	End Date	No o Pds
4						
5	ıary Numbers	• Express decimal numbers in binary system • Express binary numbers in decimal system	1	7/1/2024	7/6/2024	6
6	Sets	Define set as well-defined collection of objects• Represent a set in Roster form				
7		Identify different types of sets on the basis of number of elements in the set, Differentiate between		7/8/2024	7/12/2024	5
8		equal set and equivalence set,subsets,subsets as intervals,venn-diagram,problems using venn diagram				
9	Relations	specific arrangement of elements in a pair, Cartesian product of two sets, the number of elements in a	1	7/15/2024	7/20/2024	5
10		Cartesian product of two sets, relation as a subset of Cartesian product, domain and range of a relation				
11	Functions	function using dependent and independent variable, domain, range and co-domain of a given function	1	7/22/2024	7/26/2024	5
12		various types of function,domain,co-domain and range and representation of function graphically				
13	ɔgarithm and	Relate indices and logarithm /antilogarithm • Find logarithm and antilogarithms of given number •				
14	ıntilogarithm	Applications of rules of indices • Introduction of logarithm and antilogarithm • Common and				
15		Natural logarithm , Laws and properties of logarithms • Enlist the laws and properties of logarithms	1	7/29/2024	8/3/2024	
16		Apply laws of logarithm • Fundamental laws of logarithm , Simple applications of logarithm and				
17		antilogarithm • Use logarithm in different application				
18	ıntitative Aptitu	Determine average for a given data	1	8/5/2024	8/9/2024	
19	rage, Clock	• Evaluate the angular value of a minute • Calculate the angle formed between two hands of clock				
20		at given time • Calculate the time for which hands of clock meet				
21	ender	• Determine Odd days in a month/ year/ century • Decode the day for the given date				
22	e,Work and Dis	• Establish the relationship between work and time • Compare the work done by the individual / group				
23		w.r.t. time • Calculate the time taken/ distance covered/ Work done from the given data	1	8/12/2024	8/17/2024	
24	ısuration	• Solve problems based on surface area and volume of 2D and 3D shapes • Calculate the volume/				
25		/ surface area for solid formed using two or more shapes				
26	ting Arrangeme	Create suitable seating plan/ draft as per given conditions (Linear/circular)				
27		Locate the position of a person in a seating arrangement				
28	ɣuence and	• Differentiate between sequence and series , Identify Arithmetic Progression (AP)	1	8/20/2024	8/23/2024	
29	ies	Establish the formulae of finding *n* th term and sum of n terms , Solve application problems based on AP				
30		Find arithmetic mean (AM) of two positive numbers,G.P,n th term and sum of n terms of a given G.P	1	8/27/2024	8/30/2024	
31		Applications of G.P,Geometric Mean of two positive integers,Problems based on relation between				
32		AM and GM, Apply appropriate formulas of AP and GP to solve application				
33	ical reasoning	Solve logical problems involving odd man out, syllogism, blood relation and coding decoding	1	9/2/2024	9/6/2024	
34		Revision	I	9/9/2024	9/11/2024	3
35		Half yearly Examinations	I	9/13/2024	9/27/2024	HY
36						
37	ɔcriptive Statisti	dispersion in a data set , Differentiate between range, quartile deviation, mean deviation and standard	II	9/30/2024	10/5/2024	
38		deviation, range, quartile deviation, mean deviation and standard deviation for ungrouped and				
39		grouped data set , Choose appropriate measure of dispersion to calculate spread of data				
40		Skewness and Kurtosis using graphical representation of a data set ,Skewness and Kurtosis of a frequency	II	10/7/2024	10/19/2024	
41		distribution by plotting the graph , coefficient of Skewness and interpret the results				
42		Percentile rank and Quartile rank , Percentile and Quartile rank of scores in a given data set				
43		correlation in values of two data sets, Product moment correlation for ungrouped and grouped data	II	10/21/2024	10/25/2024	
44		Karl Pearson's coefficient of correlation • Spearman's rank correlation ,coefficient of correlation				
45	ɱutations and	permutation , concept of permutation to solve simple problems ,Combinations,	II	11/4/2024	11/8/2024	
46	ınbinations	Differentiate between permutation and combination, formula of combination to solve problems	II	11/11/2024	11/16/2024	5
47	ɔculus: Limits	limit of a function , problems based on the algebra of limits, continuity of a function,instanteous rate		11/18/2024	11/22/2024	
48	tinuity,Differenti	of change, derivative of the functions,derivative of derivative of functions	II	11/25/2024	11/30/2024	6
49	bability	random experiment and sample space with suitable example,different type of event and their probability				
50		concept of conditional probability,problems based on conditional probability	II	12/2/2024	12/7/2024	6
51		total probability, problems based on application of total probability,				
52		Bayes' theorem , practical problems based on Bayes' theorem+ miscellaneous examples	II	12/9/2024	12/12/2024	4
53	ɜncial Mathema	concept of Interest Rates ,Compare the difference between Nominal Interest Rate, Effective Rate				
54		and real interest rate, Solve Practical applications of interest rate ,Simple Interest and Compound Interest				
55		Annual equivalency rate, effective rate of interest, net present value ,immediate Annuity,	II	12/16/2024	12/21/2024	
56		, Annuity due and Deferred Annuity •Calculate General Annuity,calculate future value of regular annuity				
57		annuity due •Apply the concept of Annuity in real life				
58		direct and indirect tax, GST, Goods and Services Tax (SGST) Central Goods and Services Tax (CGST) and	II	12/23/2024	12/31/2024	
59		Union territory goods and service tax(UTGST), Bills, tariff rates, fixed charge, surcharge, service charge				
60		calculation of electricity bill,water bill and other supply bills +Revision		1/16/2025	1/24/2025	
61			II			
62	ɽdinate	slope and equation of lines in various forms,angle between two lines,perpendicular distance ,distance between two	II	1/27/2025	1/31/2025	
63	ɔmetry	equation of a circle,problems on equation of a circle,eccentricity of parabola,equation of parabola+revision				
64		Practicals	II	2/3/2025	2/7/2025	5
65	ɜion for Annual	Chapterwise Revision for Annual Examination	II	2/10/2025	2/15/2025	6
66	ɱination			2/17/2025	2/27/2025	AE
67						
68	ɒared by: KP					
69	Co-ordinator-PSign					

Class-XI Sub:- Applied-Mathematics(241) Time:-45 minutes

Marking Scheme

Sl.No.	Chapter/ Topic	Max.Marks
1	Binary numbers	5
2	Sets and relations	15
	Total	20

Syllabus Planning for Half Yearly Examination 2024-25

Class-XI Sub:- Applied-Mathematics (241) Time:-3 hours

Marking Scheme

Sl.No.	Chapter/ Topic	Max.Marks
1	Sets and Relations	13
2	Binary numbers	4
3	Indices and Logarithms	15
4	Functions	8
5	Sequence and Series	15
6	Mathematical reasoning	10
7	Numerical Applications	15
	Total	80

Syllabus Planning for Second Periodic Examination 2024-25

Class-XI Sub:-Applied-Mathematics(241) Time:-45minutes

Marking Scheme

Sl.No.	Chapter/ Topic	Max.Marks
1	Statistics	13
2	Permutation & Combination	7
	Total	20

Syllabus Planning for Annual Examination 2024-25

Class-XI Sub:-Applied Mathematics(241) Time:-3 hours

Marking Scheme

Sl.No.	Chapter/ Topic	Max.Marks
1	Numbers, Quantification and Numerical Applications	9
2	Algebra	15
3	Mathematical Reasoning	6
4	Calculus	10
5	Probability	8
6	Descriptive Statistics	12
7	Basics of Financial Mathematics	15
8	Coordinate Geometry	5
	Total	80

Co-ordinator Name-KK.I

Subject Teacher Name: KP

APPLIED MATHEMATICS (241)
TERM : I & II
Internal Assessment Max. Marks: 20
Evaluation Criteria

The weightage is as under

Sr. No.	Area and Weightage	Assessment Area	Marks allocated
1	Practical work(10 marks)	Performance of practical and record	5
		Year-end test of any one practical	5
2	Project work(10 marks)	Project work and record	5
		Year-end Presentation/Viva of the Project	5
Total			20

Term I
Practical work(10 marks)
LIST OF ACTIVITY/PRACTICAL

1. To find the number of subsets of a given set and verify that if a set has number of elements, then the total number of subsets is
2. To represent set theoretic operations using Venn diagrams.
3. To identify a relation and a function.
4. To demonstrate that the Arithmetic mean of two different positive numbers is always greater than the geometric mean.
5. Graph of linear functions.

Term II
Project will be allotted to Student so they understand and develop applicability of data from local source to make it more relevant.