S. D. VIDYA MANDIR, HUDA, PANIPAT HALF-YEARLY EXAMINATION (SYLLABUS AND PAPER-PATTERN) CLASS- 12 (SCIENCE)

	ENGLISH (SYLLABUS)	
Reading Section	Unseen Passages	
Writing Section	Notice Writing	
Willing Occilon	Invitations and Replies	
	Letter to Editor	
	Article Writing	
	Report Writing	
Literature	Flamingo	
	Ch- 1 The Last Lesson	
	Ch- 2 Lost Spring	
	Ch- 3 Deep Water	
	Ch- 4 The Rattrap	
	P- 1 My Mother at Sixty-Six	
	P- 2 Keeping Quiet	
	P- 3 A Thing of Beauty	
	P- 4 A Roadside Stand	
	Vistas	
	Ch- 1 The Third Level	
	Ch- 2 The Tiger King	
	Ch- 3 Journey to the End of the World	
	Ch- 4 The Enemy	
	ENGLISH (PAPER-PATTERN)	
I	Reading Section	22 Marks
1.	Unseen Comprehension Passage	12
	3 short questions (2x3=6)	
	4 MCQs (1×4=4)	
	2 very short questions (1×2=2)	
2.	Unseen Comprehension Passage	10
	2 short questions (2×2=4)	
	3 MCQs (1×3=3)	
	3 very short questions (1×3=3)	
II	Writing Section	18 Marks
3.	One out of the two Notices	4
4.	One out of the two Invitations and Replies	4
5.	One out of the two Letters	5
6.	One out of the two Article/Report	5
III	Literature	40 Marks
7.	One out of the two poetic extracts	6
	4 short questions	
	2 MCQs	
8.	One out of the two prose extracts from Vistas	4
	3 short questions	
	1 MCQ	
9.	One out of the two prose extracts from Flamingo	6
	4 short questions	
	2 MCQ	

10.	Five short questions out of six from Flamingo	2x5= 10
11.	Two short questions out of three from Vistas	2×2= 4
12.	One long question out of the two from Flamingo	5
13.	One long question out of the two from Vistas	5
	CHEMISTRY (SYLLABUS)	
1	Solutions	12
2	Electrochemistry	12
3	Chemical Kinetics	12
4	d and f block Elements	12
5	Coordination Compounds	11
6	Haloalkanes and Haloarenes	11
	CHEMISTRY (PAPER-PATTERN)	

S. No.	Type of Questions	Section	Marks of Each Question	Total Questions	Total Marks
1	Multiple Choice Type Questions	А	1	16	16
2	Very Short Answer Type Questions	В	2	5	10
3	Short Answer Type Questions	С	3	7	21
4	Case Based Questions	D	4	2	8
5	Long Answer Type Questions	Е	5	3	15
	Total				70

	PHYSICS (SYLLABUS)	
Unit 1	Electrostatics	
Unit 2	Current Electricity	
Unit 3	Magnetic Effects of Currents and Magnetism	
Unit 4	Electromagnetic Induction and Alternating Current	
	PHYSICS (PAPER PATTERN)	

Section	Types Of Questions	Marks Of Each Question	Total Question	Total Marks
Α	MCQ & Ass. and Reason	1	16	16
В	Very Short Answer	2	5	10
С	Short Answer Questions	3	7	21
D	Case Study Question	4	2	8
Е	Long Answer Question	5	3	15
	TOTAL			70 Marks

	BIOLOGY (SYLLABUS)	
Chapter-2	Reproduction in Flowering Plants	(10 Marks)
Chapter-3	Human Reproduction	(12 Marks)
Chapter-4	Reproductive Health	(10 Marks)
Chapter-5	Principal of Inheritance and Variation	(13 Marks)
Chapter-6	Molecular Basis of Inheritance	(15 Marks)
Chapter-7	Evolution	(10 Marks)
-	BIOLOGY (PAPER-PATTERN)	
Section A	MCQ and Assertion-Reason	16x1= 16
Section B	Very Short Answer Question	5x2= 10
Section C	Short Answer Questions	7x3= 21
Section D	Case Based Questions	2x4= 08
Section E	Long Answer Questions	3x5= 15
	Total	70
	MATHEMATICS (SYLLABUS)	
Ch 1	Relations and Functions	
Ch 2	Inverse Trigonometric Functions	
Ch 3	Matrices	
Ch 4	Determinants	
Ch 5	Continuity and Differentiability	
Ch 6	Applications of Derivative	
Ch 7	Integration (Up to Ex- 7.7)	
Ch 12	Linear Programming	
	MATHEMATICS (PAPER-PATTERN)	
	15 MCQS & 1 Assertion Reasoning-Based Question	16x1= 16
	2 Marks Questions 10	10x1= 10 10x2= 20
	3 Marks Questions 07	07x3 = 21
	4 Marks Questions - 02 (Case Studies)	02x4 = 08
	5 Marks Questions - 03	03x5= 15
	APPLIED MATHEMATICS (SYLLABUS)	CONC- 10
Ch 1	Numbers, Quantification & Numerical Applications	
Ch 2	Numerical Inequalities	
Ch 3	Matrices	
Ch 4	Determinants	
Ch 5	Differentiation	
Ch 6	Application of Derivatives	
Ch 7	Integration	
Ch 8	Differential Equations	
	APPLIED MATHEMATICS (PAPER-PATTERN)	
	15 MCQS & 1 Assertion Reasoning-Based Question	16x1= 16
	2 Marks Questions 10	10x2= 20
	3 Marks Questions 07	07x3= 21
	4 Marks Questions - 02 (Case Studies)	02x4= 08
	5 Marks Questions - 03	03x5= 15

	ECONOMICS (SYLLABUS)	
	Macro Economics	
Ch 1	Some Basic Concepts of Macro Economics	
Ch 2	National Income and Related Aggregates	
Ch 3	Methods Of Calculating National Income	
Ch 4	Money	
Ch 5	Banking	
Ch 6	Aggregate Demand, Aggregate Supply and Related Concepts	
Ch 7	Short Run Equilibrium Output	
Ch 8	Problem Of Deficient Demand and Excess Demand	
On o	Indian Economic Development	
Ch 1	Indian Economy on The Eve Of Independence	
Ch 2	Indian Economy (1950-90)	
Ch 3	Liberalisation, Privatisation and Globalisation	
Ch 4	Human Capital Formation	
OII 4	<u> </u>	
	ECONOMICS (PAPER-PATTERN)	
	Multiple Choice Questions (MCQ)	20x1= 20
	Short Answer Questions	04x3= 12
	Short Answer Questions	06x4= 24
	Long Answer Questions	04x6= 24
	TOTAL	80
	GEOGRAPHY (SYLLABUS)	
	Fundamentals of Human Geography	
Chapter 1	Human Geography	
Chapter 2	The World Population Density Distribution and Growth Human	
Chapter 3	Development	
Chapter 4	Primary Activities	
Chapter 5	Secondary Activities	
Chapter 6	Tertiary and Quaternary Activities +	
•	India People and Economy	
Chapter 1	Population Distribution Density Growth and Composition	
Chapter 2	Human Settlements	
Chapter 3	Land Resources and Agriculture	
Chapter 4	Water Resources	
Chapter 5	Mineral and Energy Resources	
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	GEOGRAPHY (PAPER-PATTERN)	
i.	Question paper contains 30 questions. All questions are	
1.	compulsory.	
ii.	Question paper is divided into five sections. Sections- A, B, C,	
11.	D and E.	
Section A	Question Number 1 To 17 (MCQ)	17x1= 17
Section B		2x3 = 6
	Question Number 18 And 19 (Source Based Questions)	4x3= 12
Section C	Question Number 20 To 23 (Short Answer Type Questions) (80 To 100 Words)	480= 12
Section D	Question Number 24 To 28 (Long Answer Type Questions)	
_	(120 To 150 Words)	5x5= 25
Section E	Question Number 29 And 30 (Map Based Questions)	10

	INFORM	ATICS PRACTI	CES (IP) (SYL	LABUS)	
Ch 1		Queries & Sql Functions			
Ch 2	Data Handliing ι	Data Handliing using Pandas-I			
Ch 4	Plotting Data us	Plotting Data using MATPLOTLIB			
	INFORMAT	INFORMATICS PRACTICES (IP) (PAPER PATTERN)			
	Section	Marks Per Question	Total No. of Questions	Total Marks	
	Section A	1	18	18	
	Section B	2	7	14	
	Section C	3	5	15	
	Section D	4	2	8	
	Section E	5	3	15	
	Total		35	70	
		AL INTELLIGE	NCE (AI) (SYL	LABUS)	
Part A		nication Skill - IV			
		anagement - IV			
	Unit 3: ICT Ski				
	Unit 4: Entrepr	eneurial Skill - IV			
Part B					
Part B	Unit 1: Capstor Unit 2: Model L				
		RTIFICIAL INTE	ELLIGENCE (A	I)	
	Type of Question	Marks Per Question	Total No. of Questions	Total Marks	
	Very Short Answer	1	24	24	
	Short Answer	2	7	14	
	Long Answer	4	3	12	
	Total		34	50	
	liotai		34	30	
		FINE ARTS (SVI I ARIIS)		
Ch 1	Rajasthani Sch		o i llando,		
Ch 2	Mughal School				
Ch 3	Pahari School				
		ī			
Ch 4	Deccan Schoo			_	
		INE ARTS (PAI	PER PATTERN)	
	Questions 8 x				08
	Questions 5 x				10
	Questions 2 x	o marks			12
	Total Marks				30
	Definition				
	Alap, Tana, Meend, Kan, Khatka, Murki, Gram, Murchna, Gamak, And Alankar Tunning Of Tanpura				
	Tala	. (. 1			
	Rupak and Jha	ptal			

	Biography	
	Ustad Faiyaz Khan	
	Time Theory of Ragas and Sangeet Parijat	
	Raga	
	Bhairav and Malkaunsh	
	MUSIC (PAPER PATTERN)	
	MCQ 8×1=8	8×1= 08
	5 Questions x 2 Marks=10	5×2= 10
	2 Questions x 6 Marks=12	2x6 = 12
	Total	30
	PHYSICAL EDUCATION (SYLLABUS)	
Ch 1	Management of Sporting Events	(12 Marks)
Ch 2	Children and Women in Sports	(11 Marks)
Ch 3	Yoga as Preventive Measure for lifestyle Disease	(12 Marks)
Ch 4	Physical Education and Sports for CWSN	(12 Marks)
Ch 5	Sports and Nutrition	(11 Marks)
Ch 6	Test and Measurement in Sports	(12 Marks)
	PHYSICAL EDUCATION (PAPER PATTERN)	
	1 Mark Questions	1x18= 18
	2 Mark Questions	2x5= 10
	3 Marks Questions	3x5= 15
	4 Marks Questions (Case Studies).	4x3= 12
	5 Marks Questions	5x3=15
	Total Marks	70