

KENDRIYA VIDYALAYA SANGATHAN, PATNA REGION

Split-up Syllabus 2017-18

Class XI-Informatics Practices

S.No	Name of examination	Marks	Weightage (in %)	Month of Exam	Remarks
1	Periodic Test -01	50	10	August	
2	Half Yearly Exam	70 (theory) + 30 (Practical)	30	October	
3	Periodic Test -02	50	10	January	
4	Session Ending Examination	70 (theory) + 30 (Practical)	50	March	
Separately Pass in Theory and Practical Paper And Minimum Pass Marks is 33 % of Total Marks					

Unit No.	Unit Name	Marks
1	Introduction to Computer systems	10
2	Introduction to Programming	25
3	Relational Database Management System	30
4	IT Applications	05
	Total	70

Month	Contents	No. of periods (theory)	No. of practical classes	Practical's
June & July	<p>UNIT 1:</p> <p>Computer organization (basic concepts): CPU, Memory (RAM and ROM), I/O devices, communication bus, ports (serial, parallel), device specific ports;</p> <p>Input devices: Keyboard, Mouse, Light pen, Touch Screen, Graphics Tablet, Joystick, Microphone, OCR, Scanner, Smart Card reader, Barcode reader, QRCode reader, Biometric sensor, web camera;</p> <p>Output Devices: Monitor/Visual Display Unit (VDU), LCD screen, Television, Printer (Dot Matrix printer, Desk jet/ Inkjet/ Bubble jet printer, Laser printer), Plotter, Speaker;</p> <p>Secondary Storage Devices: Floppy Disk, Hard Disk, Compact Disk, Magnetic Tape, Digital Versatile Disk (DVD), Flash Drive, Memory cards. Comparative properties of storage media;</p> <p>Memory Units: bit, Byte (Kilobyte, Megabyte, Gigabyte, Terabyte, Petabyte)</p> <p>Encoding scheme: ASCII, ISCII & UNICODE</p> <p>E-waste disposal:</p> <p>Security of computer system: Sources of attack and possible damages, malware – virus, worms, spyware and cookies as security threat, malware detection using a tool. Computer security, digital certificate, digital signature, firewall, password, file access permissions</p> <p>Types of Software:</p> <p>(a) System Software:</p> <p>(i) Operating systems: Need for operating system, major functions of Operating System; Examples of OS for mainframe (eg: Linux etc), PC/Server (eg: Windows, Ubuntu etc.), and mobile devices eg:</p>	20	08	

	<p>Android, ios and Symbian.</p> <p>(ii) Language Processors: Assembler, Interpreter, and Compiler</p> <p>(b) Utility Software: Compression tools, disk defragmenter, anti-virus</p> <p>(c) Application Software:</p> <p>(i) General Purpose Application Software: Word Processor, Presentation Tool, Spreadsheet Package, Database Management System, Integrated Development Environment (IDE)</p> <p>(ii) Specific Purpose Application Software: Inventory Management System, Purchasing System, Human Resource Management System, Payroll System, Financial Accounting, Hotel Management and Reservation System etc.</p>			
August	(Period Test -01)			
	<p>UNIT 2: INTRODUCTION TO PROGRAMMING</p> <p>(a) Getting started with Programming using IDE</p> <p>(b) Programming Fundamentals</p> <p>Data Types,</p> <p>Variables,</p> <p>Integer object method: parseInt</p> <p>Swing Controls</p>	20	16	Simple prog. To know about syntax of JAVA
September	<p>Control Structures:</p> <p>Decision Structure – if, if-else, switch;</p> <p>Looping Structure- while, do . . while, for;</p> <p>Java IDE Programming-1</p> <p>Concept of a Method, Concept of a Class, frames, panel, Buttons.</p>	20	16	Prog. Based on loops and conditional statements
October	(Half Yearly Exam)			
	<p>Java IDE Programming-2</p> <p>Text field, Password field, Text area, check box, Radio Button.</p> <p>Java IDE Programming-3</p> <p>List Box, Combo Box</p>	20	16	Prog. By using text field, label, check box, radio
November	<p>Programming Guidelines:</p> <p>General Concepts;</p> <p>Modular approach;</p> <p>Stylistic Guidelines:</p> <p>Running and debugging programs,</p> <p>Problem Solving Methodology</p> <p>Unit 3: Relational Database management System</p> <p>Database Management System</p> <p>Introduction to database concepts:</p> <p>Keys</p> <p>Classification of SQL Statements:</p> <p>DML: Insert, Update, delete</p> <p>DDL: Create, Alter, Drop</p> <p>Fetching Data using SELECT Statement</p>	20	16	SQL command by using table, creation of table, insertion data into table.

December	Manipulating table data using DML command Functions in MySQL: String Functions: ASCII(), CHAR(), CONCAT(), INSTR(), LCASE(), UCASE(), LEFT(), LOWER(), LENGTH (), LTRIM(), MID(), RIGHT(), RTRIM(), SUBSTR(), TRIM(), UPPER(). Mathematical Functions: - POWER (), ROUND (), TRUNCATE(). Date and Time Functions: CURDATE(), DATE(), MONTH(), YEAR(), DAYNAME(), DAYOFMONTH(), DAYOFWEEK(), DAYOFYEAR(), NOW(), SYSDATE().	10	8	
January	(Periodic Test -02)			
	UNIT 4: IT APPLICATIONS <ul style="list-style-type: none"> • e - Governance - Definition, e-Governance websites; their salient features and societal impacts • e - Business - Definition, e-Business websites, their salient features and societal impacts • e- Learning - Definition; Benefits to students (Learners), Teachers (Trainers) and School (Institution) Management; e-Learning websites and their salient features and societal impacts. 	15	12	Display of different website related to e-gov., e- learning and e- business.
February	Revision, Project Work Preparation			
March	Session ending Examination			

Session 2017-18

BLUE PRINT FOR **Periodic Test - I** (Marks : 50 Time : 90 Min)

UNIT	CHAPTER	VSA 1 Marks	SA-I 2 Marks	SA-II 3 Marks	LA 4 Marks	TOTAL
UNIT-I	Ch- 1	1(2)	2(5)	3(3)		21
	Ch-2	1(2)	2(2)	3(3)	4(1)	17
UNIT- II	Ch-3	-	2(6)	-	-	12
	Total	1(4)	2(13)	3(6)	4(1)	50(24)

BLUE PRINT FOR **Periodic Test - II** (Marks : 50 Time : 90 Min)

UNIT	CHAPTER	VSA 1	SA-I 2	SA-II 3	LA 4	TOTAL
UNIT- II	CH-3	1(2)	2(2)	3(1)	-	9
	CH-4	1(1)	2(2)	3(1)	-	8
	CH-5	1(1)	2(5)	3(1)	4(1)	18
	CH-6	1(1)	2(3)	3(1)	-	10
	CH-7	1(1)	2(2)	-	-	5
	TOTAL	1(6)	2(14)	3(4)	4(1)	50(20)

HALF YEARLY-2017-18

Class- XI IP

TIME- 3 HRS

(M.M-70 Theory) And (Marks: 30

Practical)

BLUE PRINT

UNIT	VSA	SA-I	SA-II	LA	TOTAL
Unit -1	1(1)	2(7)	-	-	15
Unit -2	1(4)	2(8)	3(5)	4(5)	55
Total	1(5)	2(15)	3(5)	4(5)	70(30)

SESSION ENDING EXAMINATION - 2017-18

Class- XI IP

TIME- 3 HRS

(M.M-70 Theory) And

(Marks: 30 Practical)

BLUE PRINT

	VSA	SA-I	SA-II	LA	TOTAL
UNIT – 1	1(2)	2(4)	-	-	10
UNIT –II	1(2)	2(7)	3(3)		25
UNIT- III	1(16)	2(5)		4(1)	30
UNIT– IV	1(1)	2(2)	-	-	05
Total	1(21)	2(18)	3(3)	4(1)	70(43)

Note : (i) Long type question base on the HOTS in Half yearly examination and session ending Examination .

(ii) Periodic test question will be prepare at the Vidyalaya level by concern subject teacher.