SYLLABUS/CURRICULUM AND STRUCTURE OF QUESTION PAPER FOR PRE-VOCATIONAL SUBJECTS 10TH CLASS

Time: 2 hrs. THEORY Marks: 30

Time: 3 hrs PRACTICAL Marks: 60

CCE: 10

Total Marks:100

The question paper will comprise of three parts (Part-I, Part-II and Part-III). The question paper will be evenly distributed from the prescribed syllabus.

- Part-I will consist of objective type questions carrying one mark each. The answer of each question should not exceed more than one sentence.
- Part-II will consist of seven short answer type question carrying three marks each. Candidate will attempt any five questions out of these. A question may have two and more parts. The answer of each question should not be more than one page of the answer sheet.
- Part-III will consist of two questions carrying five marks each. Candidate will attempt any one question out of these. A question may have two and more parts. The answer of each question should not be more than two pages of the answer sheet.

STRUCTURE OF QUESTION PAPER FOR PRACTICAL

Time: 3 hrs Maximum Marks: 60

Distribution of marks will be as follows:

(i) Practical note book/sessional work/visits/project work. 10 Marks

(ii) Viva Voice 10 Marks

(iii) Actual Performance 40 Marks

Major Practical:

In all, three practical will be asked from the prescribed syllabus. Candidate will be asked to choose any two out of these. The Practical examiner will ask the candidate to perform any one practical out of the two chosen by him.

PRE-VOCATIONAL CURRICULUM THEORY

Time: 2 hrs Theory: 30

Marks

Time: 3 hrs Practical: 60

Marks

CCE: 10

Marks

Total: 100

Marks

COURSE: KNITTING (HAND & MACHINE)

	SE. KIII I IIIG (HAND & MACHINE)	CLASS: A		
r. No		LEARNING OUTCOMES	TEACHING/LEARNING	TIME
EQU	TIRED		METHODOLOGY	(Periods)
1	<u></u>	3	4	5
1.	Knitting of Bawa suit on single bed hand knitting machine.	The pupil knows the methods of preparation of Bawa suit.	Explanation & demonstration	10
2.	Basic stitches in knitting (i) Plain stitch (ii) Rib stitch	The pupil knows about the basic stitches (with hand & machine)	Explanation & demonstration	10
3.	Winning of yarn, precautions to be kept during windings.	The pupil knows the winding of yarn.	Explanation & demonstration	8
4.	Knowledge of different types of yarn used in knitting i.e. cotton, wool & silk. Identification of these fibres through microscopic examination & burning test.	The pupil knows about the different types of yarn used in knitting industry. The pupil know about the identification of different fibres by burning test & microscopic examination.		12
5.	Introduction of hand socks knitting machine and required accessories.	The pupil i) Knows about the socks knitting machines. ii) Knows about various accessories their working.	Explanation & demonstration	9
6.	i) Explain the Cam parts of hand socks knitting machine.ii) Explanation with diagram the cylinder Cam-set of hand socks knitting machine.	The pupil i) knows about the Cam-parts of socks knitting machine. ii) knows about the knitting operation with the help of Cam set diagram.	Demonstration & explanation	11
7.	Method of making (i) Welt (ii) Rib (iii) Heel and Toe.	The pupil prepares welt, rib and heel and toe of socks.	Demonstration & explanation	10
8.	i) How to make full socks on hand socks knitting	The pupil prepares complete socks.	Demonstration & explanation	12

	machine.	The pupil knows about the various dimensions of socks.		
	ii) Knowledge of various dimensions of socks.			
9.	Toe closing: Linking, Pressing, labelling, folding	The pupil knows about linking, pressing, linking and	Demonstration	10
	and packing of socks.	packing of socks.		
10.	Defecting that occur during knitting their causes	The pupil understands various defects their causes &	Explanation & demonstration	8
	and remedies.	remedies.	-	

PRACTICAL

COURSE: KNITTING (HAND & MACHINE)

CLASS: X

Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQU				
			METHODOLOGY	(Periods)
1	2	3	4	5
1.	Making of Bawa suit on single bed hand knitting machine.	The pupil performs the job of making Bawa suit.	Demonstration & actual practice	36
2.	Knowledge & Practice of wrapping yarn from hanks to bobbin	The pupil wraps yarn from hanks to bobbin	Demonstration & actual practice	12
3.	Identification & removal of the defects that occur during knitting	The pupil identifies removes the defects that occur during knitting.	Demonstration & actual practice	12
4	Identification of different types of yarn i.e. cotton, wool and silk by i) Microscopic examination ii) Burning test	The pupil identifies the different types of yarn with microscopic examination & burning test.	Demonstration & actual practice	12
5.	Dissembling and reassembling of the parts of socks knitting machine.	The pupil assembles, reassembles & cleans the socks knitting machines.	Demonstration & actual practice	12
6.	Identification for different types of cams of the socks knitting machine.	The pupil identifies the different types of cam of the machine.	Demonstration & actual practice	20
7.	Making of welt, rib, heel, & toe.	The pupil performs the job of making Welt, Rib, Heel & Toe.	Demonstration & actual practice	24
8.	Making of full socks with Rib & Elastic top.	The pupil performs the job of making full socks with elastic top.	Demonstration & actual practice	36
9.	i) Method of toe closing.ii) Linking, Pressing, Labelling, Folding and Packing of socks.	The pupil performs the job of finishing socks.	Demonstration & actual practice	24
10.	Making of Plain fabric & Rib fabric on machine.	The pupil knits Plain & Rib fabric.	Demonstration & actual practice	12

PRE-VOCATIONAL CURRICULUM THEORY

Time: 2 hrs Theory: 30

Marks

Time: 3 hrs Practical: 60

Marks

CCE: 10
Marks
Total: 100

Marks

COURSE: GENERAL HORICULTURE CLASS: X

Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUII		2	METHODOLOGY	(Periods)
1	2	3	4	5
1.	Importance of fruit in diet, scope of fruit	1 1	Lectures, explanation, use of charts	4
	cultivation in Punjab.	i) Develops consciousness regarding value of fruits.		
		ii) Understands the scope of fruit cultivation in		
		Punjab.		
2.	Selection of site and soil for fruit growing.	The pupil	Lectures, explanation and visit to	4
		i) Knows the requisites for selection of site for fruit	fruit growing or charts	
		growing.		
		ii) Understands the suitability of soil for fruit		
		growing.		
3.	Planning and planting of an orchard-preparation		Lectures, use of charts,	10
	of land; system of orchard; lay out; digging,	i) knows how to prepare land for an orchard.	demonstration in the field.	
	refilling of pits; planting of trees.	ii) understand different systems of planting fruit		
	remaining of pies, planting of trees.	plants		
		iii) know how to play out a n orchard		
		iv) can explain the method of digging and refilling		
		, 1		
1	Duonagation of furit plants, see sutting lavering	of pits.	Evaluation demonstration	12
4.	Propagation of fruit plants: see, cutting, layering,		Explanation, demonstration	12
	budding and grafting.	propagation.		
5.	Irrigation, manuring, and fertilization of fruit trees	The pupil knows	Explanation, use of charts	08

		i) different methods of irrigation		
		ii) different methods of application of manures and fertilizers in an orchard.		
6.	Cultivation of fruit trees, i.e. Mango, Citrus,	The pupil understands how to grow different fruit	Explanation	14
	Grapes, Guava & Papaya.	plants.	-	
7.	Protection of vegetable and fruit plants from	The pupil understands how to protect vegetable and	-Do-	06
	adverse weather conditions.	fruit plants from sun-burn, sun scald and frost etc.		
8.	Weeds and their control.	The pupil	Explanation	06
		i) can name different weeds		
		ii) can explain their harmful effects on standing		
		crops.		
		iii) knows the methods of control of weeds.		
9.	Picking, packaging and marketing of fruits.	The pupil	-Do-	08
		i) know how to pluck fruit from the trees.		
		ii) can explain the method of packing of fruit		
		iii) understands the system of marketing of fruits.		
10.	General techniques of preservation of fruits;		Explanation & demonstration	08
	preservation of fruits in the form of squashes,	i) know the general techniques of preservation of		
	syrups and jams.	fruits.		
		ii) understands the general methods of preparation		
		of squashes, syrups and jams.		
11.	Growing of seasonal flowers and pot plants.	The pupil acquires knowledge to grow winter and	Explanation	08
		summer seasonal flowers and pot plants		
12.	Growing of important ornamental trees, shrubs	The pupil has the knowledge to grow ornamental	-Do-	10
	and climbers viz. Gulmohar, Amaltas, Bottle	trees, shrubs and climbers and is familiar with the		
	brush, Rose, Bogenvilla and ragoon creeper.	methods of their cultivation.		
13.	Layout and maintenance of lawns	The pupil knows about the layout of lawns and their	-Do-	02
		maintenance.		

PRACTICAL

COURSE: GENERAL HORICULTURE

CLASS:	X

Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES T	EACHING/LEARNING	TIME
REQUII	RED			
			METHODOLOGY	(Periods)
1	2	3	4	5
1.	Layout of an orchard with reference to various	The pupil is able to layout an orchard using various	Demonstration & Learning by doing	20
	planting systems.	planting systems.		

2.	Method of taking soil sample for testing and	The pupil acquires the skill of taking soil sample for	-Do-	20
	finding its suitability for fruit growing.	testing.		
3.	Methods of irrigation	The pupil is able to use different methods of	-Do-	20
		irrigation as per requirement.		
4.	Digging, refilling of pits and Planting of fruit	The pupil can (i) prepare the pit and refill it.	-Do-	30
	trees.	(ii) plant a fruit tree.		
5.	Various methods of plant propagation i.e. seed,	The pupil acquires the skill to use various methods	Demonstration & Learning by doing	36
	cutting, budding, layering and grafting.	of plant propagation.		
6.	Application of manures and fertilizers to orchards.	The pupil can use different methods of manuring	-Do-	20
		and fertilizing.		
7.	Home scale propagation of (i) squash (ii) jam	The pupil can prepare these things from one	-Do-	30
	(iii) syrup of one seasonal fruit.	seasonal fruit		
8.	Identification of fruits; fruit plants; flowers;	The pupil identifies	-Do-	24
	manures & fertilizers; gardening tools and	(i) different fruits		
	equipment used in gardening.	(ii) fruit plants (iii) flowers		
		(iv) manures & fertilizers		
		(v) common gardening tools & equipment.		

Time: 2 hrs Marks

Theory: 90

CCE: 10

Marks

THEORY

Total: 100

Marks

COURSE: ENGINEERING DRAFTING AND DUPLICATING

CI	٨	SS		\mathbf{V}
\mathbf{L}	л	טט	•	Λ

COURSE: ENGINEERING DRAFTING AND DUPLICATING CLAS			CLASS: X	
Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUIRI	ED			
			METHODOLOGY	(Periods)
1	2	3	4	5
j	Drawing:- i) Orthographic projection:- Meaning of R.P. Quadrant 1 st angle projections, third angle projections (front view, side, top view)	The pupil i) knows differentiates and recognizes different orthographic projections.	Demonstration & explanation	12
; ;	ii) Solid Geometry: Orthographic projection of solid objects standing on horizontal plane with one of edge of the base as parallel, perpendicular and angular position with vertical plane. Section of solid made by horizontal parallel to xy.	ii) recognizes, names, differentiates between solids (cone, cylinder, prism and pyramids). iii) knows their projections at different angular positions.	Demonstration & explanation	17
2.	Building Construction:- (i) Masonry works :- Type of bricks, different type of bond i.e. English bond, Flemish bond, Types of masonry works.	The pupil knows, recognizes and differentiates different type of bricks and masonry work.	Demonstration & explanation	12
	 (ii) Measurement :- Reading of site plan, knowledge of the following instructions (a) Measuring tape and engineering chain. (b) Calipers, Vernier Calipers, Micrometer. (c) Line diagram of 4 points of electrical circuits. Brief introduction of electrical accessories used in house wiring. 	The pupil knows, differentiates and recognizes and names the different instructions and reads them. The pupil knows about the electrical circuits, recognizes and differentiates its accessories used in house wiring.		22
2.	Duplicating :-	The pupil	Demonstration & explanation	17

(i) Operating functions of following machines i.e.	i) knows the oper ation correctly of the duplicating		
cyclostyle machine, Photostat machine, tracing	machines.		
table, sun frame, ammonia box.			
ii) Objectives of tracing procedure of table	ii) knows the objectives and procedure of tracing	Demonstration & explanation	20
tracing,	and		
Necessity of lamination, operating procedure of	understands the necessity & process of lamination		
lamination machine.	and use of lamination machine.		

Time: 2 hrs

Theory: 30

Marks

Time: 3 hrs Practical: 60

Marks

CCE: 10

Marks
THEORY
Total: 100

Marks

COURSE: COMMERCIAL ART

CLASS: X

Sr. No. REQUI	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
1	2	3	METHODOLOGY	(Periods)
1.	Colour – Concept, Theory and classification, hues, density and tones. Symbolic aspects of Colours.	The pupil i) understands and narrates the concept of theory Colours. ii) understands and expresses symbolic aspects of Colours. iii) differentiates various types of Colours.	Lecture and demonstration	10
2.	Design, Definition, Principles and types of design.	The pupil defines, enlists and expresses principles of various types of designs.	Lecture and demonstration	17
3.	Printing techniques- water Colour, fabric Colour and oil painting.	The pupil names and differentiates various types of painting techniques and knows its different applications.	Lecture and demonstration	15
4.	Principles of good composition, distribution of space, balance, rhythm, dominance, abstraction.	The pupil enumerates principles of good composition.	Lecture and demonstration	18
5.	Printing techniques- Silk screen printing, line and	The pupil understands the process of silk screen	Lecture and demonstration	15

	half tone, block letters and offset printing.	printing and identifies the line and half tone block letter		
		and offset printing.		
6.	Principle of poster design, lay out composition	The pupil recall's the principles of poster design, lay	Lecture	15
	and book illustration.	out and composition and book illustration.		
7.	Appreciation of art concept.	The pupil understands the concept of art.	Lecture	10

COURSE: COMMERCIAL ART

COUNDE: COMMERCIAE ART				
Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUI	RED			
			METHODOLOGY	(Periods)
1	2	3	4	5
1.	Drawing different parts of the body e.g. hand,	The pupil draws different parts of body e.g. hand, foot,	Demonstration & actual practice	30
	foot, nose, eyes, lips etc. in pencil.	nose, eyes, lips etc.	by students	
2.	Head drawings in pencil.	The pupil draws the head in pencil and acquires the	Demonstration & actual practice	25
		knowledge of head anatomy and make a portrait.	by students	
3.	Drawing of landscape from nature memory with	The pupil draws landscape paintings.	Demonstration & actual practice	25
	monochrome/ Colours.		by students	
4.	To prepare a simple book and magazine cover	The pupil prepare book/magazine cover designs and	Demonstration & actual practice	25
	design in Colour on topics on commercial art,	understands its importance.	by students	
	Indian culture, Indian festivals, school magazine			
	cover etc.			
5.	Preparation of a saree border and all over design	The pupil prepares saree border and all over pattern	Demonstration & Actual practice	20
	(geometrical and floral).	design.	by students	
6.	Preparation of simple poster based on	The pupil prepares a simple poster.	Demonstration & actual practice	25
	combination of lettering and simple illustrations.		by students	
	Topics – unity, donate blood, keep India beautiful,			
	national integration, small saving scheme.			
7.	Visit to museum art gallery.	The pupil becomes aware of the past and prevalent art	Visit	25
		and culture.		
8.	Visit to printing press/advertising agency.	The pupil becomes aware of printing and advertising	Visit	25
		process.		

Time: 2 hrs Theory: 30

Marks
Time: 3 hrs
Practical: 60

Marks Practical: 60

CCE: 10

Marks

THEORY Total: 100

Marks

COURSE: COMPUTER SCIENCE CLASS: X

Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING TI	ME
REQUII	RED			
			METHODOLOGY	(Periods)
1	2	3	4	5
1.	Information role in industry.	The pupil	Distinguishing detail & summary	2
	Information, its importance and need.	a) understands the importance and need of role of	reports.	
	Difference between data & information to	information in industry.		
	managers in decision making. Qualities of			
	information, Categories of information.	c) knows and gives evidence of knowing qualities and		
		categories of information.		
2.	Classification & History of computers.	The pupil knows the history of computers and can	Audio-Visuals to show different	2
	Micro, Mini, Main-frame and Super-Computers,	classify the evaluation of computers.	computers on charts.	
	Slide Rule, UNIVAC, ENIAC, EDSAC,			
	Computer Generations.			
3.	Data Processing concepts.	The pupil understands different types of data	Give examples on Railway	2
	Origin of data, Input, Processing output,	processing activities.	booking, payroll etc.	
	distribution, batch, on-line, real-time, processing.			
4.	Numbering system.	The pupil	Exercise should be given	4
	Decimal, Binary, Octal and Hexadecimal System	1 '		
	and their inter conversion.	numbering systems.		
		b) can do the inter conversions.		
5.	Binary Arithmetic.	The pupil knows the Binary arithmetic and its uses.	Exercise should be given.	4
	Binary addition, subtraction, division &			
	multiplication. Negative numbers and their			
	storage techniques. Subtraction using complement			

	method. Conversion of binary fraction to decimal fraction and vice-versa. Zoned and packed decimal numbers.			
6.	Recording Modes. BCD, Six bit, ASCII, EBCDIC Codes.	The pupil understands and exhibits the knowledge of recording modes.		4
7.	Boolean Algebra. Truth table, OR, AND, NOT, NOR, NAND, XOR logic gates.	The pupil understands and applies Boolean algebra.	Exercise on solving logical expressions.	4
8.	Computer packages. Introduction to spread sheets and database management packages.	The pupil understands and employs Computer packages.	Citing suitable examples.	.2
9.	Data Concepts. Physical and logical concepts of data, compiler, entity, attribute.	The pupil understands and explains the concepts.	Comparing the way data is stored on disk and retrieved on monitor.	2
10.	File Organization. Data items, record file, data base, serial, sequential, random and indexed sequential files.	The pupil correlates and applies the data storage with the application requirements.	Citing suitable examples, wherein such files are used like batch processing.	2
11.	Computer Communication. Twisted wire pairs, coaxial cable, microwave system, satellites, optical fibers, band-width, band rate, simplex, half-duplex, full-duplex, serial/parallel, asynchronous, synchronous transmission.	The pupil understands and uses communication techniques.	By giving examples wherein each media/method is used.	2
12.	Computer Networking. Protocols, LAN fundamentals and their classification, modem, bulletin board systems, E-mail, ISDN, NISDN, BISIN.	The pupil knows and explains sharing of data and other resources.	Demonstration/ charts may be used.	4
13.	Computer Application. Computer's role in office automation, education, business, banking, railways, research, printing, technology, medicine & communications, CAD,CAM, CAE, DTP, Expert systems, robots, tomography.	The pupil understands the application of computers in information technology.		2
14.	Advanced MS-DOS. Concepts of config.sys, autoexec.bat, batch files with parameters, io.sys, ms-dos.sys,	The pupil understands programming, applies various commands.	Demonstration followed by practical training.	8

	command.com, differences between internal and external commands, disk copy, format, chkdsk		
	etc.		
15.	Basic Languages (advanced techniques) User defines functions, Multiline functions subroutines exercises, Files. Relative merits and demerits of random and sequential files. Program file and data file, Creating files using standard packages. Creating files using a BASIC program. EDF function. Reading a sequential file using a BASIC program. Important note about opening the file in input mode. Operational points. Random files. Pointers. Accessing a random file. Accessing records at random. Graphic functions.	Sample programs and practical trainer.	58
			TOTAL: 100

COURSE: COMPUTER SCINCE		CLASS: X		
Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUI	RED 2	3	METHODOLOGY 4	(Periods) 5
1.	Advanced MS-DOS. Concept of config.sys, autoexec.bat, batch files with parameters, io.sys, ms-dos.sys, command.com, difference between internal and external commands, disk-copy, format, chkdsk etc.		Demonstration followed by practical training.	40
2.	BASIC LANGUAGE (advanced techniques)	The pupil uses different types of files and prepares	Sample program and practical	160

Hon defined fractions	ana mba	tusinin s	
User defined functions.	graphs.	training.	
Multiline functions			
Subroutine exercise.			
Files, Relative merits and demerits of random and			
sequential files. Program file and data file.			
Creating files using standard packages.			
Creating files using a BASIC program.			
EDF function.			
Reading a sequential file using a BASIC program.			
Important note about opening the file in input			
mode. Operational points.			
Random files.			
Pointer			
Accessing a random file.			
Accessing records at random.			
Graphic functions.			TOTAL: 200
			hrs.

Time: 2 hrs		Theory: 30
Marks Time: 3 hrs		Practical: 60
Marks		CCE: 10
Marks	THEORY	Total: 100

Marks

COURSE: MANUFACTURING OF SPORTS GOODS CLASS: X

Sr. No. REQUIE	CONTENT/ACTIVITIES RED	LEARNING OUTCOMES	TEACHING/LEARNING T	TIME
			METHODOLOGY	(Periods)
1	2	3	4	5
1.	Types of finishing materials: Pa	aints (duco), The pupil	Lectures, discussion, visit to	6

		17		
	Polishes, Pigments Bider, Colour.	i) understands and is able to define and describe various types of finishing materials.	factories demonstration.	
		ii) understands the proper use of the finishing materials.		
2.	Finishing process:	The pupil	-Do-	6
	a) Marks and blemish- their character and methods	i) understands the method of removal marks and blemish		
	of removal	ii) know how to clean, polish and stamp the goods		
	b) Cleaning, polishing and stamping.			
3.	Steps to reduce wastage of raw materials.	The pupil understands how to adjust the raw materials	-Do-	5
		and save it from wastage.		
4.	Seasoning of wood and methods of seasoning.	The pupil	-Do-	6
		i) understands why seasoning is necessary		
		ii) knows the best time of cutting		
		iii) knows the method of seasoning.		
5.	Drawing and designing of job patterns pertaining to	The pupil draws and designs patterns pertaining to items	-Do-	8
	carom board and volley ball.	as given in column-2.		
6.	Standard specifications of carom board and volley	The pupil understands the specification of the items as	-Do-	8
	ball.	given in column-2.		
7.	Determining the cost price of finished goods.	The pupil understands how to determine the cost of the	Lectures, discussion, visit to	10
		finished goods.	factories.	
8.	Types of finishing materials in brief to revise:	To revise the use of finishes materials used for preparing to	the Lectures, discussion, visit to	5
	Paints (duco), Polishes, Pigments Bider, Colour.	goods.	factories demonstration.	
9.	Give brief knowledge of raw materials used in	To revise about raw materials as told in 9 th class & for t	the Demonstrate and give Knowledge	5
	sports industries for cricket bat, hockey sticks,	items to manufacture in this semester.	through lecture	
	football & volley ball.			
10.	Steps to reduce wastage of raw materials and	· · · · · · · · · · · · · · · · · · ·		4
	protection from defects.	understands how to adjust the raw materials and save it from	om	
		wastage.		
11.	Give the detail of method of seasoning & protection	To give full detail of method of seasoning like natural meth	od -Do-	7
	of wood from defects.	& artificial method & its different classes to seasoning		
		wood & protect the wood from defects like different types	of	
		medicine etc.		
12.	Drawing and designing of job patterns pertaining to		as -Do-	8
	football, cricket bat and hockey stick.	given in column-2.		
13.	Standard specifications of carom board, cricket ball,	The pupil understands the specification of the items as given	ren -Do-	8
	hockey stick and volley ball.	in column-2.		
14.	Packing and dispatching.	The pupil understands how to pack the finished goods a		6
		dispatch them.	factories.	

15.	Determining the marking of selling price of finished	The pupil understands how to judge the market trend at the	Lectures, discussion, visit to	8
	goods	time of selling the finished goods.	factories.	

COURSE: MANUFACTURING OF SPORTS GOODS	CLASS: X	PRACTICAL
COUNDED THE TOTAL OF STORES GOODS	CHIDDII	

COURS	E; MANUFACTURING OF SPORTS GOODS	CLASS: 2	A FRACII	CAL
Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES T	EACHING/LEARNING T	IME
REQUIF	RED		METHODOLOGY	(Periods)
1	2	3	4	5
1.	Making a carom board of standard specification.	The pupil makes a carom board as per specification and	Demonstration, visits to factories,	25
		follows the various steps logically.	Learning by doing.	
2.	Making a volley ball of 32 panels.	The pupil makes a volleyball as per follows the various	-Do-	35
		steps logically.		
3.	Making a cricket bat.	The pupil makes a cricket bat as per given specifications	-Do-	50
		and follows the various steps logically.		
4.	Making a hockey stick.	The pupil makes a hockey stick as per given	-Do-	50
		specifications and follows the various steps logically.		
5.	Making a Volley Ball 32 panels.	The pupil makes a volley ball as per given specifications	-Do-	20
		and follows the various steps logically.		
6.	Making a Football 32 panels.	The pupil makes a football as per given specifications	-Do-	20
		and follows the various steps logically.		

Time: 2 hrs

Theory: 30

Marks
Time: 3 hrs
Practical: 60
Marks

CCE: 10

Marks

THEORY Total: 100

Marks

COURSE: REPAIR & MAINTENANCE OF FARM POWER AND MACHINERY

COURSI	E: REPAIR & MAINTENANCE OF FARM POV	VER AND MACHINERY	CLASS: X	
Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUIR	RED			
			METHODOLOGY	(Periods)
1	2	3	4	5
1.	a) Role of farm machinery in agriculture and its	The pupil is aware of farm machinery and its	Class room teaching.	4
	advantages.	advantages.		
	b) Conventional and non conventional source of	The pupil knows about the occurs of farm power.	,,	4
	farm power.			
	c) Advantages of biogas plant, solar cooker,	The pupil understand the advantage of	,,	4
	smokeless chullah.	a) biogas plant		
		b) solar cooker		
		c) smokeless chullah		
2.	Introduction to land preparation equipment:	The pupil recognizes the kind and use of land killage	Class room teaching and field	5
	Mould board, plough, disk harrow, cultivator,	tools/equipment.	demonstration.	
	planker, straw cutter.			
3.	a) Introduction to seeding-planting-transplanting	The pupil knows the need and advantages of different	,,	4
	equipment.	planting and transplanting.		
	b) Advantages and uses of seed cum fertilizer			4
	drill.			
	c) Introduction to potato planters, sugarcane			4
	planters.			
	d) Introduction to paddy transplanted.			4
4.	a) Introduction to thresher.	The pupil acquires knowledge of threshing practice for	Classroom teaching and field	4
	b) Various systems of threshing: Feeding chute-	different crops.	demonstration.	4
	threshing unit-blowing-cleaning of grains and			
	bagging.			
	c) Brief description of threshing machines chaff			4

		- 1 / -		
	cutter-spike truth-drum type-hammers mill beater			
	type.			
	d) Brief introduction to harvesting combines.			4
5.	a) Study of Hand and power operated sprayers and	The pupil know the and describe the use and operation	Classroom teaching and field	4
	dusters.	of sprayers and dusters along with precautions.	demonstration.	
	b) Safety precautions while using K-napsack			4
	sprayer.			
	c) Storage precautions			4
	d) Precautions while handling storage of			4
	insecticides.			
6.	a) Introduction to diesel engine	The pupil acquires knowledge of construction and	Classroom teaching and	4
	(Two stroke and four stroke).	operation of diesel engine along with simple fault and	demonstration.	
	b) Constructional features of L engine.	their rectification.		6
	c) Principle of 4 stroke diesel engine.			6
	d) Diesel engine system: Fuel systems, water			6
	cooling system, force feed lubrication system.			
	e) Trouble shooting- starting, air locking, smoky			3
	exhaust, engine overheating.			
	f) Storage and handling of fuels/lubricants.			3
7.	a) Irrigation Methods: sprinkler irrigation – drip	The pupil understands various irrigation methods and	,,	4
	irrigation.	working of pumps.		
	b) Working and main parts of centrifugal and		,,	3
	submersible pumps.			

COURS	SE: REPAIR & MAINTENANCE OF FARM POV	VER AND MACHINERY	CLASS: X	PRACTICAL
Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUI	RED		METHODOLOGY	(Periods)
1	2	3	4	5
1.	Demonstration of working of solar cooker.	The pupil demonstrates the working of a solar cooker.	Explanation and demonstration	15
2.	Visit to a Biogas plant.	The pupil studies practically working of Biogas plant	"	15
		and draws free hand diagrams.		
3.	Field visits for a demonstration of Mould Board	The pupil attends field visits for Mould Board Plough	"	15
	Plough and Disc Harrow.	and Disc Harrow, sees their working and draws free		
		hand diagrams.		

4.	Hitching and De-hitching of semi mounted and	The pupil hitches and de-hitches of semi mounted and	"	15
	mounted equipment.	mounted equipment.		
5.	Identification of main parts of diesel engine.	The pupil identifies of main parts of diesel engine and	,,	10
		draws its labeled diagrams.		
6.	Cleaning of air cleaner, changing of filters.	The pupil cleans the air cleaner and changes the filters.	,,	20
7.	Visit to workshop, handling repairs of diesel	The pupil Visit workshop for the repair of diesel engine	,,	40
	engine and farm implementations.	and other farm implements and takes notes and		
		diagrams.		
8.	Fixing of land parking and printing of centrifugal	The pupil fixes a land packing and prints a centrifugal	,,	30
	pump.	pump.		
9.	Checking of alignment of installed tube well.	The pupil visits an installed tube well and checks its	,,	30
		alignment and takes notes.		
10.	Visits to tractor factories and agro based units.	The pupil visits tractor factories and agro based units	Arrangement of visits with proper	10
		and takes notes.	organization.	

Time: 2 hrs Theory: 30

Marks

Time: 3 hrs Practical: 60

Marks

CCE: 10

Marks

THEORY Total: 100

Marks

COURSE: MANUFACTURING OF LEATHER GOODS

Sr. No. CONTENT/ACTIVITIES

LEARNING OUTCOMES

TEACHING/LEARNING

TIME

REQUI	RED			
1	2	3	METHODOLOGY 4	(Periods)
1.	Brief introduction to the trade and importance and prospects of setting up small scale industrial units		Lectures & Discussion	10
	in Punjab state.			
2.	Skiving, folding and method of economical clicking.	The pupil explains skiving, folding and economical clicking.	,,	14
3.	Sequence operation of new cut, goggle case, small		,,	8
	ladies purse, chappal and cycle seat cover.	goggle case, small ladies purse, chappal and seat cover.		
4.	Cost calculations of simple leather goods for	The child is aware of the market trends of simple	Lecture, demonstration visit to	8

	i) personal use ii) sale	leather goods and can calculate their cost price and sale	factories and market.	
		price.		
5.	Raw materials employed in leather goods industry	The pupil knows how to select leather for specific	Lectures, demonstration and	14
	and their proper uses with special reference to	purpose with special reference to footwear industry.	visits to small scale industrial	
	footwear industry.		units.	
6.	General defects of hides and skins and remedial	The pupil know the common defects of hides and skins	Lectures, demonstration.	12
	measures.	and can explain remedial measures for the removal of		
		defects.		
7.	Measurement of foot and simple knowledge of	The pupil	,,	18
	foot anatomy; common abnormalities of the foot.	i) knows the method of measurement of foot.		
		ii) can describe common abnormalities in the foot.		
8.	Workshop discipline and safety precautions.	The pupil	Lecture, visits to workshops.	16
		i) enlists various safety precautions to be observed		
		while at work.		
		ii) knows the importance of maintaining proper		
		workshop discipline.		

COURSE: MANUFA	CTURING OF LE	THER COODS
COURSE: WANUE	4U, 1U) KIINUT UJE 1,7,7	もしのたん いししいろ

COUND	E: MANUFACTURING OF LEATHER GOODS		CLASS: A	
Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUI	RED			
			METHODOLOGY	(Periods)
1	2	3	4	5
1.	Identification of various types of leather and their	The pupil identifies the common types of leather and	Demonstration, learning by doing.	20
	selection according to the requirements of the job.	selects the types according to requirement of the job.		
2.	Pattern cutting of new cut, goggle case, cycle seat	The pupil cuts patterns of simple leather goods	Demonstration & learning by	60
	cover, small ladies purse & chappal.	mentioned in column 2.	doing.	
3.	Identification and use of equipment and tools	The pupil identifies the equipment and tools employed	,,	20
	employed in leather goods industry.	in the leather goods industry and use them according to		
		the job requirement.		
4.	Stitching	The pupil makes stitches on leather by hand and by	,,	20
	(Hand & Machine)	machine.		
5.	Preparation of goggle case, cycle seat cover, key	The pupil acquires workable skill to prepare simple	"	80
	case, small ladies purse & chappal.	leather items mentioned in column 2.		

Time: 2 hrs Theory: 30

Marks

Time: 3 hrs
Marks
Practical: 60

CCE: 10
Marks

THEORY Total: 100

Marks

COURSE: WOOD CRAFT CLASS: X

	E. WOOD CRAFT	CLASS		
Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUIF	RED			
			METHODOLOGY	
(Periods)				
1	2	3	4	5
1.	a) Introduction to the timber such as Deoder, Kail,	The pupil explains the properties and uses of common	Explanation, Demonstration visits	15
	Partel, Sheesham, Babool and Mango etc.	types of timber	to timber markets and forests.	
	b) Identification of wood by Colour, grains and	The pupil has the knowledge of Colour, grains and		15
	smell.	smell of different types of wood.		
2.	Conversion of timber into different shapes by	The pupil is well versed with the methods of converting	Demonstration Explanation	10
	hand cutting & sawing etc.	timber into different shapes.		
3.	The seasoning of wood and its importance;	The pupil	Demonstration Explanation visits	20
	elementary knowledge of methods of seasoning;	i) recognizes and compares unseasoned and seasoned	to seasoning plants.	
	stacking of wood.	wood.		
		ii) explain the importance of seasoning.		
		iii) describes various methods of stacking of wood.		
4.	Defects in wood and their remedies.	The pupil	Demonstration Explanation	15
		i) has the knowledge of various defects in wood.		
		ii) explains the elementary methods for the removal of		
		defects.		
5.	Measuring of wood.	The pupil measures wood correctly in shape & size.	Demonstration Explanation	05
			Supervision	
6.	Introduction to common fasteners and fittings	The pupil has the knowledge of various types of	Display Demonstration	05
	such as nails, screws, nuts & bolts, dowels etc.	fasteners and fittings commonly used in wood craft.	Explanation	

7.	Importance and introduction to the methods	The pupil understands the importance and methods of	Demonstration Explanation	05
	varnishing, painting and finishing.	varnishing, painting and finishing.	Supervision	
8.	Types of glue, animal glue, fevicol and their	The pupil	Demonstration Explanation	05
	specific used in wood craft.	i) know how to identify different types of glue.		
		ii) is familiar with their specific uses.		
9.	Introduction to the importance and uses of play	The pupil has the knowledge of importance and uses of	Display Explanation	05
	wood and mica.	play wood mica.		

COURS	E: WOOD CRAFT	CLASS:	X PRAC	CTICAL
Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUI	RED		MEMIODOLOGY	(D. 1.1)
1	2	3	METHODOLOGY 4	(Periods) 5
1.	Making of Mortises and Tenon joint, mitre joint, scarf joint etc. Name Plate	The pupil acquires elementary skills in making different joints and name plates in different sizes.	Demonstration Learning by doing	50
2.	Making a job like paper tray, money box, peg table, file rack, Using Plywood & Mica.	The pupil acquires elementary skills in shaping wood intro different articles like paper tray, money box, peg table, file rack etc, minor fitting of mica.		50
3.	Spirit polishing and varnishing.	The pupil develops workable skills in polishing and varnishing.	-Do-	50
4.	Repair of school furniture e.g. chair, table, stool etc.	The pupil acquires skills for repairing simple furniture items as per necessity	-Do-	50

PRE-VOCATIONAL CURRICULUM

Time: 2 hrs	Theory: 30

Marks
Time: 3 hrs
Practical: 60

Marks Tructical 60

CCE: 10

Marks
THEORY
Total: 100

Marks

COURSE: ELECTRONIC TECHNOLOGY CLASS: X

Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUIRED				

	_		METHODOLOGY	(Periods)
1	2	3	4	5
1.	General introductory Lectures, fundamentals of	The pupil acquires knowledge of fundamental concept of	Lecture Method	6
	electricity, application of alternating and direct	electricity AC and DC.		
	current electricity, difference between the two.			
2.	Resistors: types, Units and Colour code; parallel	The pupil learns all types of resistance and their Use.	Lecture and demonstration	10
	and series circuits.		Method	
3.	Capacitor: Types, Units and Colour code; parallel	The pupil gains knowledge of capacitors.	"	10
	and series circuits.			
4.	Inductors; Types of inductors, transformers and	The pupil acquires knowledge of different types of	Lecture and practical	10
	types of transformers	inductors and transformers.	demonstration.	
5.	Introduction to magnetism, electromagnetic	The pupil acquires the knowledge of relays and their use	By demonstrating relays.	6
	induction, their properties and uses.	in electronics.		
6.	Semiconductors, conductors and insulators; Pure	The pupil acquires knowledge of semiconductor	Lectures and demonstration	6
	and impure semi-conductors; p-N junction;	materials:- as Diodes, transistors and ICs.		
	Diodes, NPN, and PNP transistors.			
7.	Rectification: Types of rectifiers, (half-wave, full	The pupil knows the operation of circuit which converts	,,	15
	wave and bridge type)	AC into DC and its use in electronics.	.,	
8.	TV frequency bands and channels VHF (low),	The pupil has the knowledge of various frequencies used	Lecture	8
	VHF (high) and UHF.	in TV system.		
9.	Block diagram of TV receiver (B&W); function		Lecture	25
	of each block.	reception and re-production into a picture.		

COURS	E: ELECTRONIC TECHNOLOGY	C	LASS: X	
Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	ΓEACHING/LEARNING	TIME
REQUI	RED			
			METHODOLOGY	(Periods)
1	2	3	4	5
1.	Study of radio tools and safety precautions.	The pupil identifies different radio tools, uses them	Demonstration & discussion,	10
		properly taking necessary safety precaution.	Learning by doing	
2.	Soldering and de-soldering practices.	The pupil acquires workable skills of soldering and	,,	20
		de-soldering.		
3.	Use of different types of multi meters (AVO	The pupil skillfully uses different types of multi meter	,,	20
	meters), digital meter.	(AVO meters), digital meter.		
4.	Assembling power extension-board with series	The pupil acquires skills for lubrications of extension-	"	20

	test-lamp, neon indicator and fuse.	board and attains the knowledge of house-wiring.		
5.	Measurement of resistances and ceramic	The pupil acquires skills to read the value of resistances	,,	10
	capacitors by Colour code method, verification	and capacitors by Colour-code, practices proper use of		
	with multi meter.	multi meter.		
6.	Connecting the resistance in series and parallel-	The pupil practically learns calculating the value of	,,	10
	measuring the resultant value.	resistance, in parallel and series.		
7.	Assembling disco-light circuit.	The pupil learns connections and operation of LED's.	,,	10
8.	Assembling Hero-Honda horn using IC 3561.	The pupil acquires skill to use IC's in electronic circuits.	,,	15
9.	Assembling L-plate transistor radio receiver.	The pupil does PCB soldering and circuit wiring.	,,	30
10.	Operation of TV front panel controls (B&W and	The pupil employs tuning-techniques to obtain good	,,	15
	Colour).	picture on TV screen.		
11.	Installation of my antenna.	The pupil acquires the skill to install TV antenna.	,,	15
12.	Use of controls on RF/AF signal generators.	The pupil learns the use of any type of signal-generators.	,,	15

Theory: 30 Time: 2 hrs

Marks

Time: 3 hrs Practical: 60

Marks

CCE: 10

Marks

THEORY Total: 100 Marks

COURS	SE: WEAVING TECHNOLOGY	CLASS: X		
Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES TE	ACHING/LEARNING	ГІМЕ
REQUI	RED 2	3	METHODOLOGY 4	(Periods) 5
1.	Process of weaving: - Comparative study of weaving Handloom weaving & modern trends in weaving.	The pupil understands various types of weaving & knows about different modern-trends in weaving.	Use of charts & films.	8
2.	Preparatory Processes: Methods of sectional warping Names & functions of different parts of sectional warping on machine.	The pupil understands the method of sectional warping and parts of the machine. Pupil takes the necessary precautions.		18

	- Precautions to be kept in mind while sectional			
	warping.			
3.	Functions of Handloom:	The pupil understands the functions of different parts of	Demonstration & explanation	18
	- Names & functions of different parts of Frame	frame type fly shuttle loom and also the synchronicity		
	type fly shuttle loom.	between different motions.		
	-Primary & secondary motions of simple handloom			
4.	Graphical Designing:	The pupil understands graphical designing of twill weave,	Demonstration & Explanation	12
	- Constructor of plain, will twill weave with draft &	satin & sateen weave etc.		
	peg plan.			
	- Construction of satin & sateen weaves with draft			
	& peg plan.			
5.	Textile Fibers:	The pupil identifies & tests different fibers by touching &	Display & Demonstration	16
	- Identification or wool & silk fibers by physical	chemical testing.		
	testing.	-		
6.	Textile calculations:	The pupil attains numerical ability regarding warp	Demonstration explanation &	12
	- Calculations of read count.	calculations of various types.	repetitive exercises	
	- Calculations of total no. of warp threads, no. of		-	
	section, width of sections, no. bobbing & total			
	length of yarn.			
7.	Cloth Defects:	The pupil acquires knowledge about defects during cloth	Explanation	16
	- General defects in cloth during weaving & their	1	-	
	remedies.			

COURSE: WEAVING TECHNOLOGY CLASS: X

Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUI	RED			
			METHODOLOGY	(Periods)
1	2	3	4	5
1.	Parts of sectional warping machine.	The pupil identifies different parts of warping machine.	Demonstration & project	15
			assignment	
2.	Arrangement of creel stand.	The pupil acquires skill in arrangement of creel stand.	Demonstration & assignment	15
3.	Warping of at least one section (by a group).	The pupil acquires warping skill.	Project assignment	35
4.	Drafting of plain, twill and their derivates weaves.	The pupil drafts plain twill and their derivates weave.	Demonstration & project	30
			assignment	
5.	Weaving of plain, twill clothes or fabric.	The pupil weaves plain twill clothes.	Demonstration & Mill visits	60

6.	Fitting of handloom for plain and twill weave.	The pupil acquires skill in mantling and dismantling of	Demonstration & actual practice	30
		handloom for particular weave.	by students.	
7	Identification of wool & silk fibers by physical &	The pupil identifies practically the fibers physically &	Laboratory exercises.	15
	chemical testing.	through chemical testing.		

Time: 2 hrs Theory: 30

Marks Time: 3 hrs

Practical: 60 Marks

CCE: 10 Marks

THEORY Total: 100

Marks

COURSE: FOOD PRESERVATION CLASS: X

Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUI	RED			
			METHODOLOGY	(Periods)
1	2	3	4	5
1.	Need and scope of food preservation.	The pupil understands and expresses the need and scope	Lectures and Description	6
		of food preservation.		
2.	Various categories of food i.e. perishable, semi	The pupil understands and classifies various categories of	, ,,	6
	perishable and non perishable.	food which can be preserved.		
3.	Methods of food preservation:	The pupil knows, enlists and describes various methods	,,	17
	a) Drying and dehydration	of food preservation and their importance.		
	b) Curing and fermentation			
4.	Methods of food preservation :	The pupil knows, enlists and describes various methods	"	17
	a) Preservation using salt and sugar.	of food preservation and their importance.		
	b) Radiation			
5.	Elements of food microbiology, types of micro-	The pupil	"	22
	organisms, their characteristics properties and	i) enlists the elements of food microbiology and		
	their useful and harmful effects on food.	characteristics properties of micro organisms responsible		
		for spoilage.		
		ii) Understands the useful and harmful effects of micro		
		organisms on food.		
6.	Procurement, processing and storage of cereals,	The pupil knows and describes various methods of	,,	22

	pulses, fruits, vegetables, milk and eggs.	procurement, storage and processing of different foods		
		and their products.		
7.	Organoleptic (sensory) characteristics of foods.	The pupil knows and describes the testing of prepared	,,	10
		products organoleptically.		

COURSE: FOOD PRESERVATION

COURSE:	: FOOD PRESERVATION	TION CLASS: X		
Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES TE	ACHING/LEARNING T	IME
REQUIRE	ED			
		N	IETHODOLOGY	(Periods)
1	2	3	4	5
1.	Preparation of charts and posters for perishable,	The pupil understands and enlists different types of food	Actual preparation of charts by	10
	semi perishable and non perishable foods.	required for preservation.	the students.	
2.	Bottling of tomatoes, peas, mango and papaya.	The pupil preserves fruits and vegetables using salt and	,,	30
		sugar i.e. Brine and Syrup.		
3.	Drying of tomatoes, Onion, garlic and chilies.	The pupil preserves fruits and vegetables using solar	,,	30
		energy and thus conserves energy.		
4.	Testing of fat, S.N.P., total solids with the help of	The pupil tests various samples of milk for fat, S.N.P. in	Demonstration & actual practice	20
	Lactometer, clot on boiling test (COB)	order to check the adulteration and test quality.	by students.	
5.	Preparation of synthetic vinegar Kanji (using	Pupil preserves fermented drinks like 'kanji' and other	,,	20
	black carrots)	fermented foods.		
6.	Preparation of apple jam, mixed fruit jam, mango	The pupil prepares various types of jams, syrups and	,,	60
	or lemon squash, rose syrup.	squashes.		
7.	Preparation of Khoya, curd and cottage cheese.	The pupil prepares various products from milk.	"	30

Time: 2 hrs
Marks
Theory:30

Time: 3 hrs Practical: 60

Marks

CCE: 10

Marks
THEORY
Total: 100

Marks

COURSE: GARMENT TECHNOLOGY CLASS: X

Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES TE	ACHING/LEARNING	ГІМЕ
REQUIRE	E D			
		N	IETHODOLOGY	(Periods)
1	2	3	4	5
1.	Introduction to different types of styles of	The pupil knows the various types and styles of garments	Lectures and display of	05
	children's, men's and women's garments.	for men, women and children.	garments.	
2.	Sewing Machine- its types, special attachments,	The pupil a) identifies various types of sewing machines.	Demonstration and	10
	their uses, defects and their removal.	b) identifies special attachments uses them.	charts/diagrams.	
		c) understands defects and knows the method of their		
1		removal.		
3.	Knowledge of commonly used fabrics.	The pupil gains knowledge of commonly available fabrics	Demonstration and visits.	08
<u> </u>		in the market.		
4.	Selection of threads, hand & machine needles	The pupil understands the concept of normal and abnormal	Demonstration and description	
	according to the fabric for various purposes	human body with regards to proper fitting of garments.		
	(stitching & embroidery)			
5.	Study of human body, normal and abnormal	The pupil understands the concept of normal and abnormal	Demonstration and description	18
	with emphasis on proper fitting of garments.	human body with regards to proper fitting of garments.		
6.	Methods of taking body measurement and its	The pupil understands and uses the method of taking	,,	09
	sequence of recording.	measurements and sequence of recording.		
7.	Selection of suitable fabrics for different types	The pupil	Demonstration	09
	of garments economic layout estimation of	i) knows the method of selection of different types of		
	cloth requirement.	fabrics.		
		ii) understands the economic layout and estimates the cloth		
		for various garments.		
8.	Collars and cuff- types, shapes and method of	The pupil identifies various types and shapes of collars and	Lectures and Demonstration.	18
	fixing and their uses for various garments.	cuffs and knows their uses for garments.		
9.	Lining- necessity, it's matching with garments.	The pupil knows about the need and matching of lining and	Lectures and Demonstration.	07

	Interlining.	interlining.		
10.	Checking and mode of alteration for proper	The pupil checks the different defects and to makes	,,	12
	fitting.	alteration for proper fitting.		
11.	Pre requisites for establishing a garment shop.	The pupil knows the requirement for establishing a	,,	06
		garment shop and Boutiques.		

COURSE: GARMENT TECHNOLOGY

COURSE	: GARMENT TECHNOLOGY	CLASS: X		
Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUIR	ED			
			METHODOLOGY	(Periods)
1	2	3	4	5
1.	Dismantling and assembling of a hand operated	The pupil dismantles and reassembles various parts of	Demonstration & actual practice	14
	sewing machine and treadle operated machine.	sewing and treadle operated machine.	by students.	
2.	Identification of different fabrics- cotton,	The pupil identifies and names different fabrics.	Demonstration & practice by	12
	synthetic, woolens & mixed(terry cot)		students.	
3.	To practice the method of taking measurements	The pupil takes measurements from actual body and also	=	12
	directly from the body and from ready made	from ready made garments records the measurements in	by students.	
	garments, its sequence of recording.	sequence.		
4.	To prepare sample using decorative stitches	The pupil prepares samples using decorative stitches.	"	18
	(a) chain (b) cross			
	(c) laizy daizy (d) long and short stitches.			
5.	Drafting and cutting of simple sleeves and puff	The pupil drafts and cuts simple sleeves and puff sleeves.	"	22
	sleeves.			
6.	Preparation of samples of cut packets- single jet	The pupil prepares samples of cut packets – single jet	,,	22
	and double jet.	and double jet.		
7.	Drafting, pattern cutting, lay out. Estimation and	• •	"	10+15+25+15
	stitching of following garments.	items a to c in column 1.		22=87
	a) Simple Underwear			
	b) Petticoat			
	c) Salwar			
	d) Ladies Shirts			
	e) Pant cut Pajama			
8.	Finishing and ironing of above made garments.	The pupil finishes and irons the above made garments.	,,	13

Time: 2 hrs Theory: 30

Marks

Time: 3 hrs Practical: 60

Marks

CCE: 10

Marks

THEORY Total: 100

Marks

COURSE: WELDING CLASS: X

Sr. No. REQUIRE	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
			METHODOLOGY	(Periods)
1	2	3	4	5
1.	Electric are welding equipment.	The pupil knows & describes the electric arc welding set and its accessories.	Demonstration & lecture method	20
2.	Welding electrodes and flux	The pupil knows and narrates about electrodes and objectives of coating.	,,	12
3.	Welding joints	The pupil understands and describes the different types of joints and their uses.	,,	15
4.	Arc welding techniques	The pupil understands the method of formation of arc and to make bead.	,,	15
5.	Gas welding equipment	The pupil knows & describes the gas welding set and its accessories.	,,	20
6.	Types of flames, their structure	The pupil has knowledge and describes the different types of flames.	,,	9
7.	Defects and remedies in welding	The pupil understands and describes the various defects occurring in welding and other removal.	,,	9

PRE-VOCATIONAL CURRICULUM PRACTICAL

COURSE: WELDING CLASS: X

Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUIRED				

1	2	3	METHODOLOGY 4	(Periods) 5
1.	Setting of current with respect to material, its size and electrode.	The pupil acquires and displays skill of selection of electrodes and current setting.	Demonstration and practice by students.	12
2.	Preparation of joints with Arc welding	The pupil acquires and displays skill of making lap, butt	,,	
	a) Lap joint	and T-joints by Arc welding.		12
	b) Butt joint			12
	c) T- joint			12
3.	Striking an arc and preparation of beads.	The pupil acquires	,,	
		a) skill of Arc welding and		15
		b) knows removal or slag and laying another bead		15
4.	Preparation or utility articles like Peehri.	The pupil acquires skill of electric arc welding in making	,,	21
		Peehri or some other article.		
5.	Minor repair work and school furniture with	The pupil acquires skill in repairing school furniture with	,,	12
	arc welding.	arc welding.		
6.	Setting up Gas welding set.	The pupil acquires skill of setting acetylene gas	,,	12
		apparatus.		
7.	Formation of different types of flames.	The pupil acquires skill of making different flames with	,,	21
		welding torch.		
8.	Preparation or joints with gas welding.	The pupil acquires skill of making Lap, Butt and T- joint	,,	23
	a) Lap joint	by gas welding.		
	b) Butt joint			
	c) T- joints			
9.	Preparation of utility articles from pipes.	The pupil acquires skill of making any one item of steel	,,	21
		furniture by gas welding.		
10.	Minors repairs.	The pupil acquires skill of repair of any one item of	,,	12
		school furniture by gas welding.		

Time: 2 hrs Marks

Time: 3 hrs

Marks

Theory: 30

Practical: 60

CCE: 10

Marks

THEORY

Total: 100

Marks

COURSE: R & M OF HOUSEHOLD ELECTRICAL APPLIANCES

Sr. No.	CONTENT/ACTIVITIES		TEACHING/LEARNING	TIME
REQUIRE			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
1122 & 0 12122	_		METHODOLOGY	(Periods)
1	2	3	4	5
1.	A.C. Fundamentals : Terms such as cycle, amplitude, frequency, time period, instantaneous value, R.M.S. value. Introduction to simple A.C. circuit power & power factors.	The pupil understands A.C. fundamentals.	Demonstration & description	14
2.	Earthing-Necessity and its types.	The pupil has the concept of earthing of electrical circuit and its necessity.	,,	10
3.	General safety precautions, causes and treatment of electricshock.	The pupil knows general safety precautions, causes and treatment of electricshock.	Demonstration and description	10
4.	Measuring instruments: Voltmeter, Ammeter, wattmeter, energy meter, multimeter, S.W.G. and micrometer.	• • •	,,	12
5.	Types of wiring (Battery and conduit wiring). Comparison between battery and conduit wiring.	The pupil understands and describes different types of wiring.	,,	10
6.	Use of series testing board for fault location in domestic appliances.	The pupil is able to locate fault in domestic appliances with the help of testing board.	,,	8
7.	Construction and working of fluorescent tube, testing its various components. Rectifying defects in fluorescent tube.		"	10
8.	Construction and working of electrical bell and gas lighter, their fault location and their remedies.		"	10

9.	Construction, working and fault finding of	The pupil has knowledge of working of different	,,	11
	electrical iron (non-auto). Electrical cooking	electrical gadgets and can locate faults.		
	heater, room heater and soldering iron.			

COURSE: R & M OF HOUSEHOLD ELECTRICAL APPLIANCES

Sr. No.	CONTENT/ACTIVITIES		TEACHING/LEARNING	TIME
REQUIRE				
2022	_		METHODOLOGY	(Periods)
1	2	3	4	5
1.	Introduction to various meters such as	The pupil identifies and names various meters.	Demonstration	14
	voltmeter, Ammeter, wattmeter & energy meter.			
2.	To verify Ohm's law.	The pupil practically verifies Ohm's law.	Demonstration and actual practices by pupils.	10
3.	Calculation of R.V.I.W. and energy for a given appliances.	The pupil measures and calculates R.V.I.W. and energy.	"	15
4.	Use of S.W.G. and micrometer.	The pupil uses S.W.G. and micrometer.	Demonstration and actual practices by pupils and charts.	14
5.	Identification of different wiring accessories.	The pupil identifies different wiring accessories.	,,	16
6.	Stair case wiring control: one lamp front two different places using conduit wiring.	The pupil sets up a stair case circuit through battery wiring.	Circuit diagrams	12
7.	Control one lamp from two different places using conduit wiring.	The pupil sets up a stair case circuit through conduit wiring.	"	10
8.	To prepare series test board.	The pupil prepares a series test board.	,,,	14
9.	To control an electric bell through push	The pupil makes a bell circuit using battery wiring.	Demonstration & actual	13
	bottom using battery wiring.		working by students.	
10.	To prepare a wiring circuit comprising of a		Demonstration & practical work	13
	lamp and socket using batton wiring.	battery wiring.	by students.	
11.	To connect a fluorescent tube in A.C. circuit and operate in 220 v A.C.	The pupil connects and operates A.C. circuit using 220 volts.	,,	10

Time: 2 hrs Marks

Time: 3 hrs

Marks

Theory: 30

Practical: 60

CCE: 10

Marks

THEORY Total: 100

Marks

COURSE: R & M OR SCOOTER & MOTOR CYCLE

CLASS: X

Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUIRE 1	2	3	METHODOLOGY 4	(Periods) 5
1.	Value operating mechanism function line diagram of value operating mechanism, constructional details of timings gears, cam shaft and value, value timing Silencer.	_	Demonstration and description	10
3.	Fuel supply system: Working details of a carburetor trouble shooting of fuel supply system and carburetor.	·		10
4.	Ignition system, Battery rating, Battery charging, ignition timing, trouble shooting of ignition system.		1	10
5.	Suspension system: Trouble shooting or a hydraulic shock absorber, Wheels, tyres, tubes, tyre pressure	The pupil understands and describes the suspension system.	,,	14
6.	Lubrication system: types of lubricants, SAE Viscosity ratings, factors relating to high oil consumption and their remedies.	· · · · · · · · · · · · · · · · ·		12
7.	Transmission system: Construction and working of centrifugal type friction clutch, faults, causes and their remedies of clutch and gear box.	transmission system and knows about friction, clutch		14
8.	Lighting system: Objectives, Bulbs, Head	The pupil understands the objectives of the lighting system, its components, their faults and remedies.	"	10

	lighting system and their remedies.			
9.	Servicing:	The pupil understands the need of servicing as a remedial	"	10
	Engine tuning, factors relating to high fuel	measure for high fuel consumption and engine		
	consumption and engine overheating.	overheating, engine tuning.		
10.	Road signs, road signals, necessity of driving	The pupil knows about road signs & signals and	"	10
	license, vehicle registration and insurance.	necessity of driving license. Vehicle registration and		
		insurance penalties for non-observance.		

COURSE: R & M OF SCOOTER & MOTOR CYCLE

Sr. No.	CONTENT/ACTIVITIES	LEARNING OUTCOMES	TEACHING/LEARNING	TIME
REQUIRE	D		METHODOLOGY	(Periods)
1	2	3	4	(1 er lous) 5
1.	Layout of a scooter/ Motor cycle repair shop.	The pupil prepares a rough sketch of layout of a scooter/	Demonstration and practice by	6
		motor cycle repair shop and enlists the various tools and equipment.	the students	
2.	Factors taken under consideration while	The pupil enlists the Factors to be kept in view while	,,	5
	setting of a Scooter Motor Cycle repair shop	setting a Scooter and Motor cycle repair shop.		
3.	Valve lapping.	The pupil undertook valve lapping.	,,	6
4.	Setting of Valve tappet clearance.	The pupil sets valve tappet clearance.	,,	6
5.	Setting of Value timing	The pupil sets valve timings.	,,	6
6.	To change an oil filter.	The pupil changes oil filter.	,,	8
7.	Checking two tyre pressures.	The pupil checks tyre pressure.	,,	6
8.	Brake adjustment.	The pupil undertakes brake adjustment.	"	8
9.	Brake shoe relining.	The pupil checks brake shoe relining.	"	6
10.	Adjustment of head light.	The pupil adjusts head light.	"	8
1.	Carburetor Servicing.	The pupil undertakes Carburetor servicing.	"	12
2.	Cleaning of C.B. point and adjusting gap.	The pupil cleans C.B. point and adjusts the gap.	,,,	8
3.	To change piston and piston rings.	The pupil changes piston & piston rings.	,,	6
4.	Battery testing of Ignition timing.	The pupil employs hyetometer for testing battery.	"	8
5.	Checking and testing of Ignition timing.	The pupil checks and sets ignition timing.	,,	8
6.	Servicing of a multiplate clutch.	The pupil undertakes servicing of a multiplate clutch.	"	12
7.	Servicing a centrifugal clutch.	The pupil undertakes servicing of a centrifugal clutch.	"	12
8.	Servicing a gear box.	The pupil services a gear box.	"	12
9.	Replacing a shock absorber.	The pupil replaces a shock absorber.	"	10
10.	Replacing a punctured tube.	The pupil repairs a punctured tube.	,,,	10
11.	Fault finding and lighting system.	The pupil finds fault in the lighting system.	,,	12
12.	Adjusting a horn.	The pupil can adjust a horn.	,,	7
13.	Engine tuning.	The pupil tunes the engine.	"	6
14.	Precautions before starting an engine.	The pupil takes precaution before starting and stopping an engine.		6

15.	Starting and stopping engine.	The pupil can start and stop engine in the correct manner.	,,	6
		ਪ੍ਰੀ−ਵੋਕੇਸ਼ਨਲ ਕਰੀਕੁਲਮ		
ਸਮਾਂ: 2 ਘੰਟੇ				ਲਿਖਤੀ: 3●

ਅੰਕ

ਸਮਾਂ: 3 ਘੰਟੇ

ਅੰਕ

ਅੰਕ

ਲਿਖਤੀ

ਕੁੱਲ: 1●●

ਪ੍ਰਯੋਗੀ: 6●

ਸੀ.ਸੀ.ਈ.: 1●

ਅੰਕ ਪਾਠ-ਕ੍ਮ :ਮੁੱਢਲੇ ਦਫ਼ਤਰੀ ਕਾਰਜ ਅਤੇ ਸਟੈਨੌਗ੍ਰਾਫੀ

ਕਲਾਸ : 1● ਵੀਂ

	<u> </u>					
ਲੜੀ ਨੰ:	ਵਿਸ਼ਾ-ਵਿਸ਼ਲੇਸ਼ਣ ਤੇ ਹੋਰ	ਸਿਖਲਾਈ ਉਦੇਸ਼	ਪੜਾਉਣ ਤੇ	ਸਾਜ਼−ਸਮਾਨ	ਨਿਸ਼ਚਿਤ	ਵਿਸ਼ੇਸ਼
ਕਥਨ						
	ਵੇਰਵੇ		ਸਿੱਖਣ ਵਿਧੀ	ਦੀ ਲੋੜ	ਲੋੜੀਂਦਾ ਸਮਾਂ	
1	2	3	4	5	6	

(8)	ਟਾਈਪ ਥਿਊਗੀ	ਵਿਦਿਆਰਥੀ ਸ਼ੁਧ ਅਤੇ	ਛੋਹ ਪ੍ਣਾਲੀ ਵਿਧੀ ਰਾਹੀ ਸ਼ੁਧ ਰੂਪ	ਟਾਈਪ ਮਸ਼ੀਨ ਕਾਗਜ,	ਟਾਈਮ ਟੇਬਲ	ਹਰ ਵਿਦਿਆਰਥੀ ਪੀਰੀਅਡ
	1. ਸ਼ੁੱਧ ਟਾਈਪ ਕਰਨ ਲਈ	ਤੇਜ਼ ਸਪੀਡ ਤੇ ਟਾਈਪ	ਵਿੱਚ ਟਾਈਪ ਸਮੱਗਰੀ ਚਿੱਠ- ਪੱਤਰ,	ਦਰੁਸਤੀ ਫਿਲਿਊਡ, ਕੂਰੈਕਸ਼ਨ -	ਅਨੁਸਾਰ	ਅਤੇ ਮਿਤੀ ਅਨੁਸਾਰ ਸਾਰੇ
	ਸਾਵਧਾਨੀਆਂ। ਸਪੀਡ ਵਧਾਉਣ	ਕਰਨ ਦੀ ਜਾਣਕਾਰੀ	ਹੱਥ ਲਿਖਤੀ ਅਤੇ ਬੇ-ਤਰਤੀਬੇ	ਫਿਲਮ, ਰਬੜ, ਈਰੇਜਰ ਸ਼ੀਲਡ,		ਘੱਟੋ-ਘੱਟ 1●● ਪੰਨਿਆਂ ਦਾ
	ਦੀਆਂ ਵਿਧੀਆਂ।	ਰੱਖੇਗਾ।	ਖਰੜਿਆਂ ਦਾ ਅਭਿਆਸ	ਕਾਰਬਨ, ਸਟੈਨਸਿਲ ਪੇਪਰ		ਅਭਿਆਸ ਕਰੇਗਾ ਜੋ ਸਮੇਂ ਅੰਤ
						ਤੇ ਅਧਿਆਪਕ ਵਲੋਂ ਚੈਕ
						ਕੀਤਾ। ਇਹ ਅਭਿਆਸ ਮਿਸਲ
						ਸੈਸ਼ਨ ਦੇ ਅੰਤ ਤੇ ਪ੍ਰੀਖਿਆ ਸਮੇਂ
						ਵਿਖਾਵੇਗਾ। (ਅਭਿਆਸ
						ਪੰਜਾਬ ਸਟੇਟ ਯੂਨੀਵਰਸਿਟੀ
						ਟੈਕਸਟ ਬੂਕ ਬੋਰਡ ਵਲੋਂ
						ਪ੍ਰਵਾਨਿਤ ਪਾਠ-ਪੁਸਤਕ

			- 37 -				
							"ਪੰਜਾਬੀ ਟਾਈਪ−ਰਾਈਟਿੰਗ" ਵਿੱਚੋਂ ਕੀਤਾ ਜਾਵੇਗਾ)
	2. ਹੱਥ ਲਿਖਤ ਖਰੜੇ ਤੋਂ ਟਾਈਪ ਕਰਨਾ। ਕਾਰਬਨ ਕਾਪੀਆਂ ਟਾਈਪ		ਉਕਤ		ਉਕਤ		
	ਕਰਨਾ।	ਅਤੇ ਕਾਰਬਨ ਕਾਪੀਆਂ					
		ਟਾਈਪ ਕਰਨ ਤੋਂ ਜਾਣੂ ਹੋ ਜਾਵੇਗਾ।					
	L		I		1		
(ਅ)	ਕੰਪਿਊਟਰ (ਸਿਧਾਂਤ) 1. ਕੰਪਿਊਟਰ ਅੱਖਰ ਗਿਆਨ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ, ਵਰਡ ਰੈਪ, ਜਸਟੀਫਿਕੇਸ਼ਨ, ਬੋਲਫ ਫੇਸ, ਅੰਡਰ ਲਾਈਨ, ਬਲਾਕ ਮੂਵਮੈਂਟ, ਐਡਿਟ ਮੀਮੋ, ਆਨ-ਸਕਰੀਨ ਕਲਿਕ ਬਲਾਕ, ਹੈਲਪ ਮੀਨੂੰ, ਮੇਲ ਮਰਜ, ਸਪੈਲਸਟਾਰ ਡਾਟ ਕਮਾਂਡਜ	_	ਪ੍ਰੈਕਟੀਕਲ ਕਰਕੇ ਵਿਖਾਉਣਾ		ਵਰਡ ਸਟਾਰ ਸਾਫਟ-ਵੇਅਰ (ਵਰਜਨ 4.€ ਜਾਂ ਇਸ ਤੋਂ ਵੱਧ) ਅਤੇ ਐਮ. ਐਸ. ਡੀ. ਓ. ਐਸ. (5.€ ਜਾਂ ਇਸ ਤੋਂ ਵੱਧ)	ਉਕਤ	
(g)	ਸਾਰਟ ਹੈਂਡ(ਥਿਊਰੀ)	ਬਦਲਵੇਂ ਸਟ੍ਰੋਕਾਂ ਬਾਰੇ	ਧੁਨੀਆਤਮਿਕ ਪ੍ਣਾਲੀ	ਦੁਆਰਾ	ਸ਼ਾਰਟਹੈਂਡ ਕਾਪੀ, ਪ੍ਰਵਾਨਿਤ	ਟਾਈਮ ਟੇਬਲ	1. ਹਰ ਵਿਦਿਆਰਥੀ ਪ੍ਰੀਖਿਅ
	1.ਬਦਲਵੇਂ ਸਟ੍ਰੋਕ-ਰ/ੜ,ਲ,ਵ,ਹ, (ਉਪਰਮੁਖੀ,ਹੇਠਮੁਖੀ) ਦਾ ਪ੍ਯੋਗ । ਹ ਟਿੱਕ ਤੇ ਹ ਬਿੰਦੀ ਦੀ ਵਰਤੋਂ	ਜਾਣਕਾਰੀ ਰੱਖੇਗਾ।	ਸ਼ਾਰਟਹੈਂਡ ਸਿਖਾਉਣਾ।	<u>2</u> ∙41°0°	ਪਾਠ-ਪੁਸਤਕ, ਸ਼ਾਰਟਹੈਂਡ ਪੈਨਸਿਲ/ਪੈੱਨ	ਅਨੁਸਾਰ	ਦੇ ਅੰਤ ਤੱਕ ਘੱਟੋ-ਘੱਟ ਤੋਂ ਸ਼ਾਰਟਹੈਂਡ ਕਾਪੀਆਂ (ਨੋਟ- ਬੁੱਕਾਂ) ਅਭਿਾਆਸ ਨਾਲ ਮੁਕੰਮਲ ਕਰੇਗਾ ਅਤੇ ਅਧਿਆਪਕ ਉਸਨੂੰ ਬਕਾਇਦ ਚੈਕ ਕਰੇਗਾ।

 	T	- 38 -			
2. ਸ਼ਬਦ-ਚਿੱਨ੍ਹ, ਸ਼ਬਦ-ਸੰਕੇਤ, ਸੰਖੇਪਤ ਸੰਕੇਤ, ਸ਼ਬਦ ਮਹੱਤਤਾ	ਵਿਦਿਆਰਥੀ ਸ਼ਬਦ- ਚਿੱਨ੍ਹਾਂ ਅਤੇ ਵਾਕਾਸਾਂ	ਉਕਤ	ਉਕਤ	ਟਾਈਮ ਟੇਬਲ ਅਨੁਸਾਰ	2. ਹਰ ਵਿਦਿਆਰਥੀ ਹਰ ਪਾ ਦੇ ਘੱਟੋ–ਘੱਟ 5 ਪੰਨਿਆਂ ਦਾ
ਲੋੜ ਅਤੇ ਵਾਕਾਂਸ	ਆਦਿ ਬਾਰੇ ਜਾਣਕਾਰੀ			_	ਅਭਿਆਸ ਰੋਜ਼ ਕਰੇਗਾ ਅਤੇ
	ਰੱਖੇਗਾ।				ਅਧਿਆਪਕ ਉਸਨੂੰ ਮਿਤੀਵਾ
					ਚੈੱਕ ਕਰੇਗਾ। (ਇਹ ਅਭਿਆ
					ਪੰਜਾਬ ਸਟੇਟ ਯੂਨੀਵਰਸਿਟ
					ਟੈਕਸਟ ਬੁੱਕ ਬੋਰਡ ਵੱਲੋਂ
					ਪ੍ਕਾਸ਼ਤ ਪਾਠ ਪੁਸਤਕ ਪੰਜਾਬੰ
					ਸਟੈਨੋਗ੍ਰਾਫੀ"ਵਿਚੋਂ ਕੀਤ
					ਜਾਵੇਗਾ)
3. ਵਿਸ਼ਰਾਮ-ਚਿੰਨ੍ਹ-ਸ਼ਾਰਟਹੈਂਡ	ਵਿਦਿਆਰਥੀ ਵਿਸ਼ਰਾਮ	ਉਕਤ	ਉਕਤ	ਉਕਤ	
ਵਿੱਚ ਵਰਤੇ ਜਾਣ ਵਾਲੇ ਵਿਸ਼ਰਾਮ	ਚਿੰਨਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ				
ਚਿੰਨ੍ਹ	ਰੱਖੇਗਾ।				
4. ਸੰਯੁਕਤ-ਸਵੱਰ-ਪਰਿਭਾਸ਼ਾ,	ਧੁਨੀਆਤਮਿਕ ਪ੍ਣਾਲੀ	ਧੁਨੀਆਤਮਿਕ ਪ੍ਣਾਲੀ ਦੁਆਰਾ	ਸ਼ਾਰਟਹੈਂਡ ਕਾਪੀ, ਪ੍ਵਾਨਿਤ	ਉਕਤ	
ਵਧੇਰੇ ਸਵਰਾਂ ਨੂੰ ਸ਼ਾਰਟਹੈਂਡ ਵਿੱਚ	ਦੁਆਰਾ ਸ਼ਾਰਟਹੈਂਡ ਸਿੱਖਣ	ਸ਼ਾਰਟਹੈਂਡ ਸਿੱਖਾਉਣਾ	ਪਾਠ-ਪੁਸਤਕ, ਸ਼ਾਰਟਹੈਂਡ		
ਚਿੰਨ, ਤ੍ਰਿ-ਸਵੱਰ,ਅਨਾਸਿਕ	ਦੇ ਕਾਬਲ ਹੋ ਜਾਵੇਗਾ		ਪੈਨਸਿਲ/ਪੈੱਨ		
ਉਚਾਰਨ, ਬਹੁ-ਸਵੱਰ(ਤਿੰਨ ਤੋਂ ਵਧੇਰੇ					
ਸਵਰਾਂ ਨੂੰ ਸਾਰਟਹੈਂਡ ਵਿੱਚ					
ਲਿਪੀ-ਬੱਧ ਕਰਨਾ), 'ਵਾ' ਲਈ ਅੱਧੇ					
ਚੱਕਰ ਦੀ ਵਰਤੋਂ					
5. ਬਿੰਦੀ-ਟਿੱਪੀ ਦੀ ਵਰਤੋਂ	ਅਨੁਨਾਸਿਕ ਧੁਨੀਆਂ ਬਾਰੇ	ਉਕਤ	ਉਕਤ	ਟਾਈਮ ਟੇਬਲ	
	ਜਾਣਕਾਰੀ ਰੱਖੇਗਾ।			ਅਨੁਸਾਰ	

		V 5 - 5	3)		^
	6. ਸ ਤੇ ਸ਼, ਜ਼ ਚੱਕਰ ਅਤੇ ਸਟ੍ਰੋਕ ਦਾ ਪ੍ਯੋਗ	ਚੱਕਰ ਅਤੇ ਸਟ੍ਰੋਕ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖੇਗਾ।	ਉਕਤ	ਉਕਤ	ਉਕਤ
(ਸ)	ਦਫ਼ਤਰੀ ਕਾਰਜ ਵਿਧੀਆਂ 1. ਦਫ਼ਤਰੀ ਮਸ਼ੀਨ ਤੇ ਸਮੱਗਰੀ ਮਹੱਤਵ, ਗੁਣ, ਪੰਚਿੰਗ, ਸਟੈਪਲਿੰਗ ਮਸ਼ੀਨ-ਸਿੰਗਲ ਪੰਚ, ਡਬਲ-ਪੰਚ, ਮਸ਼ੀਨ ਸਟੈਪਲਿੰਗ ਪਿੰਨ, ਟੈਗ, ਕਲਿਪ ਤੇ ਪਿੰਨ	ਵਾਲੀਆਂ ਮਸ਼ੀਨਾਂ ਬਾਰੇ	ਜਾਣ-ਪਛਾਣ ਕਰਾਉਣਾ	ਪੰਚਿੰਗ ਮਸ਼ੀਨ, ਸਟੈਪਲਿੰਗ ਮਸ਼ੀਨ, ਭਿੰਨ-ਭਿੰਨ ਕਿਸਮ ਦੇ ਟੈਗ, ਪਿੰਨ ਤੇ ਕਲਿਪ	ਉਕਤ
	2. ਟਾਈਪ ਮਸ਼ੀਨ–ਮੈਨੂਅਲ ਟਾਈਪ ਮਸ਼ੀਨ, ਇਲੈਕਟ੍ਰਾਨਿਕ ਟਾਈਪ ਮਸ਼ੀਨ	ਵਿਦਿਆਰਥੀ ਵੱਖ-ਵੱਖ ਕਿਸਮਾਂ ਦੀਆਂ ਮਸ਼ੀਨਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖੇਗਾ।	ਉਕਤ	ਮੈਨੂਅਲ ਟਾਈਪ ਮਸ਼ੀਨ, ਇਲੈਕਟ੍ਰਾਨਿਕ ਟਾਈਪ ਮਸ਼ੀਨ	ਉਕਤ
	3. ਲਿਫਾਫੇ ਉਤੇ ਪਤਾ ਲਿਖਣ ਵਾਲੀ ਮਸ਼ੀਨ, ਟਿਕਟ ਛਾਪਣ ਵਾਲੀ ਮਸ਼ੀਨ, ਪੱਤਰ ਖੋਲ੍ਹਣ ਵਾਲੀ ਮਸ਼ੀਨ	-	ਉਕਤ	ਜੇਕਰ ਸਕੂਲ ਵਿੱਚ ਇਹ ਮਸ਼ੀਨਾਂ ਉਪਲਬਧ ਨਾ ਹੋਣ ਤਾਂ ਕਿਸੇ ਦਫ਼ਤਰ ਵਿੱਚ ਲਿਜਾ ਕੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਨ੍ਹਾਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾ ਸਕਦੀ ਹੈ।	ਉਕਤ
	4. ਬਹੁ-ਪ੍ਰਤਿਲਿਪੀਕਰਨ-ਡੁਪਲੀਕੇਟਿੰਗ ਮਸ਼ੀਨ, ਫੋਟੋ ਕਾਪੀਅਰ/ਜਿਊਰੈਕਸ	ਇਨ੍ਹਾਂ ਮਸ਼ੀਨਾਂ ਬਾਰੇ ਵਿਦਿਆਰਥੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰੇਗਾ।	ਜਾਣ-ਪਛਾਣ ਕਰਾਉਣਾ	ਜੇਕਰ ਸਕੂਲ ਵਿੱਚ ਇਹ ਮਸ਼ੀਨਾਂ ਉਪਲਬਧ ਨਾ ਹੋਣ ਤਾਂ ਕਿਸੇ ਦਫ਼ਤਰ ਵਿੱਚ ਲਿਜਾ ਕੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਨ੍ਹਾਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾ ਸਕਦੀ ਹੈ।	ਉਕਤ
	5. ਸੰਚਾਰ ਵਿਵਸਥਾ-ਟੈਲੀਫੂਨ, ਇੰਟਰਕਾਮ	ਉਕਤ	ਉਕਤ	ਉਕਤ	ਟਾਈਮ ਟੇਬਲ ਅਨੁਸਾਰ
	6. ਗਣਨਾ ਮਸ਼ੀਨ ਕੈਲਕੂਲੇਟਰ	ਵਿਦਿਆਰਥੀ ਗਣਨਾ ਮਸ਼ੀਨ ਤੇ ਕੈਲਕੂਲੇਟਰ ਦੀ	ਉਕਤ	ਉਕਤ	ਉਕਤ

	ਵਰਤੋਂ ਬਾਰੇ ਜਾਣਕਾਰੀ				
	ਪ੍ਰਾਪਤ ਕਰੇਗਾ				
7. ਫਾਈਲਿੰਗ ਸਾਜ਼-ਸਮਾਨ, ਫਾਈਲ	ਵਿਦਿਆਰਥੀ ਦਫ਼ਤਰੀ	ਉਕਤ	ਫਾਈਲ ਕਵਰ, ਟੈਗ, ਕਲਿੱਪ	ਉਕਤ	
ਕਵਰ ਟੈਗ/ ਕਲਿੱਪ	ਫਾਇਲਿੰਗ ਵਿਧੀ ਬਾਰੇ				
	ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰੇਗਾ				
8. ਦਫ਼ਤਰੀ ਸੇਵਾਵਾਂ-ਫਾਈਲਿੰਗ	ਵਿਦਿਆਰਥੀ ਵੱਖ-ਵੱਖ	ਉਕਤ	ਕਾਗਜ਼,ਫਾਈਲ ਕਵਰ, ਪੰਚਿੰਗ	ਉਕਤ	
ਅਨੁ–ਕ੍ਮਣਿਕਾ	ਦਫ਼ਤਰੀ ਸੇਵਾਵਾਂ-		ਮਸ਼ੀਨ, ਟੈਗ, ਕਲਿੱਪ		
,	ਫਾਇਲਿੰਗ ਅਨੁਕ੍ਮਣਿਕਾ				
	ਕਾਰਜ ਤੋਂ ਜਾਣੂ ਹੋਵੇਗਾ।				
9. ਟੈਲੀਫੋਨ ਸੁਵਿਧਾ-ਟੈਲੀਫੋਨ ਦੀ ਵਰਤੋਂ	ਵਿਦਿਆਰਥੀ ਟੈਲੀਫੋਨ	ਉਕਤ	ਟੈਲੀਫੋਨ, ਇੰਟਰਕਾਮ, ਟੈਲੀਫੋਨ	ਉਕਤ	
	ਦੀਆਂ ਸੁਵਿਧਾਵਾਂ ਦਾ		ਡਾਇਰੈਕਟਰੀ, ਨੋਟ-ਬੁੱਕ,		
	ਗਿਆਨ ਰੱਖੇਗਾ।		ਪੈਨਸਿਲ, ਟੈਲੀਫੋਨ ਸੈਟ		

ਪ੍ਰੀ-ਵੋਕੇਸ਼ਨਲ ਕਰੀਕੁਲਮ ਪ੍ਯੋਗੀ

ਪਾਠ-ਕ੍ਮ :ਮੁੱਢਲੇ ਦਫ਼ਤਰੀ ਕਾਰਜ ਅਤੇ ਸਟੈਨੌਗ੍ਰਾਫੀ

ਕਲਾਸ : 1● ਵੀਂ

(ੳ) ਟਾਈਪ

- ਵਿਦਿਆਰਥੀ 15 ਸ਼ਬਦ ਪ੍ਰਤਿ ਮਿੰਟ ਦੀ ਰਫ਼ਤਾਰ ਤੇ 15● ਸ਼ਬਦਾਂ ਦਾ ਪੈਰਾ ਦਸ ਮਿੰਟ ਵਿੱਚ ਟਾਈਪ ਕਰੇਗਾ।
 (ਇਹ ਪੈਰ੍ਹਾ, ਪੰਜਾਬ ਸਟੇਟ ਯੂਨੀਵਰਸਿਟੀ ਟੈਕਸਟ ਬੁੱਕ ਬੋਰਡ ਵਲੋਂ ਪ੍ਰਕਾਸ਼ਿਤ ਪਾਠ-ਪੁਸਤਕ "ਪੰਜਾਬੀ ਟਾਈਪ-ਰਾਈਟਿੰਗ ਵਿੱਚ ਹੋਵੇਗਾ)
- 2. ਸਿਖਲਾਈ ਦੌਰਾਨ ਵਿਦਿਆਰਥੀ ਵਲੋਂ ਕੀਤੇ ਕਾਰਜ ਦੀ ਇਕ ਫਾਈਲ ਜੋ ਘੱਟੋ−ਘੱਟ 1●● ਟਾਈਪ ਕੀਤੇ ਪੰਨਿਆਂ ਦੀ ਹੋਵੇਗੀ ਪ੍ਰੀਖਿਆ ਸਮੇਂ ਵਿਖਾਵੇਗਾ। ਇਹ ਫਾਈਲ ਅਧਿਆਪਕ ਵਲੋਂ ਬਕਾਇਦਾ ਮਿਤੀਵਾਰ ਲੈਸਨ ਪਲੈਨਿੰਗ ਦੇ ਆਧਾਰ ਤੇ ਚੈੱਕ ਕੀਤੀ ਹੋਵੇ।

(ਅ) ਸ਼ਾਰਟ ਹੈਂਡ

(ੳ) ਸਕਿਲ

(ਅ) ਅਭਿਆਸ

- 1. ਵਿਦਿਆਰਥੀ ਨਿਸ਼ਚਿਤ ਪਾਠਾਂ ਤੱਕ 2●● ਸ਼ਬਦਾ ਦੇ ਸ਼ਬਦ−ਜੋੜ ਡਿਕਟੇਸ਼ਨ ਲਿਖ ਕੇ ਵਿਦਿਆਰਥੀ ਸ਼ਬਦਾਂ ਦਾ ਸਕਿਲ ਪੰਜਾਬ ਸਟੇਟ ਯੂਨੀਵਰਸਿਟੀ ਟੈਕਸਟ−ਬੁੱਕ ਬੋਰਡ ਵੱਲੋਂ ਨਿਰਧਾਰਿਤ ਪਾਠ ਉਸ ਦਾ ਟਾਈਪ ਮਸ਼ੀਨ ਤੇ ਲਿਪੀ−ਅੰਤਰ ਕਰੇਗਾ। ਸਮਾਂ: 3● ਮਿੰਟ ਪੁਸਤਕ "ਪੰਜਾਬੀ ਸਟੈਨੌਗ੍ਰਾਫੀ" ਵਿੱਚੋਂ ਪ੍ਰਾਪਤ ਕਰੇਗਾ।
- 2. ਵਿਦਿਆਰਥੀ ਪ੍ਰੀਖਿਅਕ ਨੂੰ ਘੱਟੋ-ਘੱਟ ਪੰਜ ਸ਼ਾਰਟ ਹੈਂਡ ਨੋਟ-ਬੁੱਕਾਂ ਜੋ ਅਧਿਆਪਕ ਵੱਲੋਂ ਚੈੱਕ ਕੀਤੀਆ ਹੋਣਗੀਆ, ਵਿਖਾਵੇਗਾ।

(ੲ) ਦਫ਼ਤਰੀ ਕਾਰਜ-ਵਿਧੀ

1. ਦਫ਼ਤਰੀ ਕਾਰਜ ਨਾਲ ਸਬੰਧਿਤ ਸਾਜ਼-ਸਮਾਨ ਤੇ ਕਾਰਜ-ਵਿਧੀ ਬਾਰੇ ਵਿਦਿਆਰਥੀ ਵਲੋਂ ਪ੍ਰਸ਼ਨ ਜ਼ਬਾਨੀ ਪੁੱਛੇ ਜਾਣਗੇ (ਵਾਈਵਾ)।

(ਸ) ਕੰਪਿਊਟਰ (ਪ੍ਰੈਕਟੀਕਲ)

- 1. ਅਧਿਆਪਕ ਵਿਦਿਆਰਥੀ ਤੋਂ ਕੰਪਿਊਟਰ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਸਬੰਧੀ ਵਾਈਵਾ ਅਤੇ ਕੰਪਿਊਟਰ ਟਾਈਪ-ਰਾਇਟਿੰਗ ਕਰਵਾਏਗਾ।
- 2. ਵਿਦਿਆਰਥੀ ਕੰਪਿਊਟਰ ਤੇ ਟਾਈਪ ਕਰਨ ਲਈ ਸਧਾਰਨ ਮੁਹਾਰਤ ਪ੍ਰਾਪਤ ਕਰੇਗਾ।
- ਕੰਪਿਊਟਰ ਮੁਹਾਰਤ ਅਤੇ ਕੰਪਿਊਟਰ ਟਾਈਪ ਰਾਇਟਿੰਗ ਬਾਰੇ ਜ਼ਬਾਨੀ ਪੁੱਛੇ ਗਏ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਦੇਣ ਦੇ ਯੋਗ ਹੋਵੇਗਾ।

Time: 2 hrs
Time: 3 hrs

Theory: 30 Marks
Practical: 60 Marks
CCE: 10 Marks
Total: 100 Marks

Structure of Question Paper

In all, seventeen questions will be set from the prescribed syllabus. The question paper will comprise of three parts (Part-I, Part-II and Part-III). The questions will be evenly distributed from the prescribed syllabus.

Part-I will consist of seven objective type questions carrying 1 mark each. All questions will be compulsory to attempt. The answer of each question should not exceed more than one sentence.

Part-II will consist of eight short answer type questions carrying 3 marks each. Candidate will attempt any six questions out of these. A question may have two or more parts. The answer of each question should not be more than one page of the answer sheet.

Part-III will consist of two questions carrying 5 marks each. Candidate will attempt any one question out of these. The answer of each question should not be more than Two pages of the answer sheet.