Sr. No. 40215311

MAHARASHTRA STATE BOARD OF VOCATIONAL EXAMINATION, MUMBAI

EXAMINATION – JULY 2014

CERTIFICATE COURSE IN WEAVING OF MAN-MADE FIBER FABRICS (402153)

TIME ALLOWED – 3 Hrs.

MARKS – 100

SUBJECT – WEAVING TECHNOLOGY (TH-I)

Q.1 A. Fill in the blanks (Attempt any Ten) 10

1 In jacquard shedding warp ends are controlled individually by--------
2 In left hand dobby pattern cylinder rotates ------- direction.
3 Dobby controls maximum ---------- No. of held frames.
4 In air jet loom weft accumulators are used for ---------
5 ----------winding process produces bobbin for shuttle.
6 -------reduces momentum of shuttle when it enters in the shuttle box.
7 In single lift single cylinder jacquard single end gets controlled by----------hook.
8 Double lift double cylinder jacquard for ------- type of shed.
9 Loose reed mechanism operated when ----------
10 ----------mechanism beats the weft to the fell of cloth.
11 Slub catchers removes ------- places from yarn.
12 In air jet picking---------nozzles are used to avoid buckling of weft.

B State True or False (Attempt any Five) 05

1 Water jet looms are used for synthetic filament fabric weaving.
2 Box swell increases speed of shuttle, when it enters the box.
3 Over pick mechanism is used in narrow loom.
4 In projectile loom over pick mechanism is used.
5 In right hand dobby pattern barrel rotates in clock wise direction
6 In single lift single cylinder jacquard botton close shed forms.

C Match the following (Attempt any Five) 05

	A	B
1	Box Swell	Sley comes forward fast & goes back slow
2	Fast reds mechanism	Fused selvedge
3	Water jet loom	Ward protector mechanism
4	Projectile loom	Reduces speed of shuttle
5	Eccentricity of sley	Tuck in selvedge
6	Over pick mechanism	Reduces Momentum of shuttle.

Q.2 Attempt any 2 16

1 What are the objectives of warping explain the passage of material through warping machine.

2 Explain construction & Working of climax dobby.

3 What are the objectives of sixing? What are the different types of size ingredients are used in sizing paste.

4 Explain negative let off mechanism of loom.

Q.3 Attempt any Two 16

a Explain With neat sketch cross border jacquard.

b Explain different types of harness mounting of jacquard..

c Explain with neat sketch stages involved in projectile picking.

d Explain different types of shed.

Q.4 Attempt any Two 16

1 Calculate the production of warping machine in yards/day/machine if ----------

Drum diameter -18 inches, Drum speed - 600rpm

Efficiency % - 75%

2 Calculate production of loom shed in meters per day if-------loom rpm -180. No. of looms per shed -100 , Efficiency of loom -80%, PPI – 60

3 Give broad classification of jacquard, Explain scope of jacquard.

4. What are the objectives of pirn winding, describe passage of materials, describe passage of material through pirn winding.

Q.5 Write short notes (any four) 16

1 Capacitance type of slub catcher.

2 Manual drawing & denting in

3 Modern size box

4 Fabric defects

5 Scope of dobby.

Q.6 Attempt any Two 16

1 Explain construction & working of cross border dobby.

2 Explain with neat sketch write pegging for left hand dobby.

3 Explain stages involved in water jet picking..

4 Explain construction & working of single lift single cylinder jacquard.

Sr. No. 40215312

MAHARASHTRA STATE BOARD OF VOCATIONAL EXAMINATION, MUMBAI

EXAMINATION – JULY 2014

CERTIFICATE COURSE IN WEAVING OF MAN-MADE FIBER FABRICS (402153)

TIME ALLOWED – 3 Hrs.

MARKS – 100

SUBJECT – INTRODUCTION TO TEXTILES & FABRIC STRUCTURE (TH-II)

Q.1 A. Fill in the blanks (Attempt any Five) 05

1) Warp threads also called as ----------
2) Weft threads also called as----------
3) Primary motions can be described terms as shedding ---------- and Beating up process.
4) ----------is the monomer of acrylic.
5) Cotton, Jute and Viscose are chemically--------type of fibres.
6) ----------is localized dyeing.

B State True or False (Attempt any Five) 05

1) Extension of Sateen weave comes under derivatives of plain weave.
2) The Bedford cord class of weave produces longitudinal warp lines in the cloth with fine sunken lines.
3) A typical pique structure consist of plain face fabric compose of one series of warp and two series of weft threads and a series of back or stitching warp threads.
4) Chemical reaction of monomers is known as polymerization.
5) Cotton count is the weight in grams of 1000 meters long yarn.
6) Scouring is done to provide water absorbency.

C Define (Attempt any Five) 05

1) Plain weave
2) Satinette
3) Primary Motions
4) Tex.
5) Plied Yarn
6) Warping.

D Match the following (Attempt any Five) 05

	A	B
1)	Plain	a) Curved Twill
2)	Curved Draft	b) Based on natural polymer
3)	Sateen	c) Merino sheep
4)	Finest Wool	d) Warp rip
5)	Semisynthetic Fibres	e) To remove size from warp yarns of the woven fabric
6)	Radic Desizingal	f) Weft faced weave

Q.2 Attempt any Two 16

a) Draw Twill-faced Bedford Cord in 22 x 6 Ends/cord=11,2/1 twill is employed for face picks and 6 picks and peg plan.
b) Draw Wadded Bedford Cord in14 x 4 with draft and peg plan.
c) Mark Bird's Eye Pique weave 30 x 12 with draft and peg plan.
d) Draw waved pique by using 6 x 6 stitching ends.

Q.3 Attempt any Two 16

a) Draw 4 x 4 Hopsack or matt weave.
b) Draw Warp rib on 8 x 8 with draft & peg plan.
c) Draw weft rib on 8 x 8 with draft & peg plan.
d) Draw Waved pique by using 6 x 6 Stitching ends.

Q.4 Attempt any Two 16

a) Show sectional diagram of Warp rib in 4x 4.
b) Show sectional diagram of Weft rib in 4x 4.
c) Draw irregular Sateens on 4 thread and 8 thread.
d) Draw Diamond Weave on 16 x 16.

Q.5 Attempt any four 16

a) Draw any one derivatives of sateen weave.
b) Draw design, Draft, Peg plan for Regular Matt Weave.
c) Construct crepe weave on sateen base.
d) Give flow charts of cotton ring spun carded, combed yarn & open end spun yarn. Give objectives of blow room, carding drawing and winding.
e) Describe non wovens.

Q.6 Attempt any Two 16

a) Describe chemical preparatory process flowchart. Give objective of each stage.
b) Describe printing and finishing.
c) Draw herring Bone Twill on 24 ends and 12 picks 3/3 twill.
d) Draw Honey Comb weave on 5 shafts. What are the characteristics of this weaves?

Sr. No. 40215321

MAHARASHTRA STATE BOARD OF VOCATIONAL EXAMINATION, MUMBAI

EXAMINATION – JULY 2014

CERTIFICATE COURSE IN WEAVING OF MAN-MADE FIBER FABRICS (402153)

TIME ALLOWED – 3 Hrs.

MARKS – 100

SUBJECT – WEAVING TECHNOLOGY - I (PR-I)

Q.1	A.	Perform any one	60
	1	Perform lattice pegging for right hand dobby sateen weave.	
	2	Dismantling & refitting of picking stick & picking nose.	
	3	Dismantling & refitting of negative let off mechanism	
	4	Preparation of pattern chain for 4 x4 pick at will box motion & drop box motion.	
Q.2		Solve any One	20
	1.	Explain the passage of material through loom.	
	2.	Explain the passage of material through slasher sizing machine.	
Q.3		Oral	10
Q.4		Term work	10

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Sr. No. 40215322

MAHARASHTRA STATE BOARD OF VOCATIONAL EXAMINATION, MUMBAI

EXAMINATION – JULY 2014

CERTIFICATE COURSE IN WEAVING OF MAN-MADE FIBER FABRICS (402153)

TIME ALLOWED – 3 Hrs.

MARKS – 100

SUBJECT - WEAVING TECHNOLOGY - II (PR-II)

Q.1	A.	Analyse the given sample and draw the design, draft and peg plan. Also report the following data.	30
	1	Ends per Inch	
	2	Picks per inch	
Q.2		Analyse the given sample and draw the design, draft and peg plan. Also report the following data.	30
	1	Ends per inch	
	2	Picks per inch	
	3	No. of ends per dent	
	4	Ends per Repeat	
	5	Picks per Repeat	
	6	Warp pattern	
	7	Weft pattern	
Q.3		Write about description for sample No.1	10
Q.4		Write about description for sample No.2	10
Q.5		Oral	10
Q.6		Term work	10