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#### INDIAN INSTITUTE OF HANDLOOM TECHNOLOGY

BARGARH/GUWAHATI/FULIA/JODHPUR/SALEM/VARANASI/CHAMPA/KANNUR/KHTJ-GADG/SPKM-IIHT-VENKATAGIRI

#### DIPLOMA IN HANDLOOM AND TEXTILE TECHNOLOGY

#### ANNUAL/SEMESTER EXAMINATION - April / May - 2018

(Regulation 2014)

Semester: V Semester Subject code & Name: 5.2 FABRIC STRUCTURE-IV

Time: 3 Hours Max Marks: 80

#### PART-A

# Answer all the questions within 2 to 3 sentences.

(2x10 = 20)

- How many beams are required for extra warp weaving?
- 2. Write the minimum no. of healds required to produce extra warp figure, with plain ground.
- What is the interlacement of coarser ends while inserting finer picks in patent satin?
- Name the ends used in modern tapestry designing. 4.
- What is the appropriate count of graph used for developing graph design to weave afigured fabric of 80 EPI and 60 PPI using 200 hooks jacquard?
- Name the jacquard tie up to simplify graph development for weaving figured warp backed cloth.
- How 3 different colour effects are produced in double cloth?
- Calculate the size of punching graph for 200 hooks jacquard, set with sectional draft to produce 8. figured double cloth with of 200 picks.
- Name different types of sheds formed in leno weaving.
- 10. Indicate healds lifting plan for crossed shed in leno weaving.

#### **PART-B**

Answer all the questions in detail.  $(4+8) \times 5 = 60$ 11. A) How the spots are anchored in extra warp figuring? (4)B) Taking a spot on 8x8, indicate the complete structure of extra weft graph design on 8x16 with 1Ground:1Extra weft ratio. (Ground weave is plain) (8)OR C) Draw simple illustrative sketch of any two styles of extra weft figuring techniques. (4)D) Taking a spot on 8x8, indicate the extra warp graph design on 16x8 with 1Ground:1Extra warp end ratio. (Ground weave is plain) (8)12. A) Differentiate traditional tapestry and modern tapestry. (4)

B) Indicate two basic weaves of patent satin to produce stripe effect with draft and peg plan. (8)

OR

C) Indicate three weaves of reversible 3 picks weft tapestry. (4)

D) Draw the west interlacing diagram of the above structure. (8)

13	A \	What are the factors that influence the selection of appropriate count of graph paper?	(4)
13	B)	Taking 40 ends x 40 picks, indicate the structure of figured single cloth by using two weaves for straight tie and straight draft arrangement.	(8)
		OR	
		Draw the drafting diagram of sectional tie – sectional draft jacquard set up to produce warp backed structure.	(4)
	D)	Taking a guide graph on 18 x 18, indicate west backed structure on 18 x 36 using 6 thread twill for binding on both side.	(8)
14	A)	Write the punching procedure and show the diagram of punched card (2 cards) for first and second pick for weaving of Two colour figured double cloth using sectional tie with section	
		draft.	(4)
	B	) Indicate the complete structure of two colour figured double cloth on 40 x 40.	(8)
		OR	
	C	Write the punching procedure and show the diagram of punched cards (2 cards) for first and second pick for weaving two colours figured double cloth using straight tie sectioned draft.	(4)
	D	) Indicate the complete structure of 4 colour figured double cloth on 32 x32.	(8)
1.	5 A	a) Differentiate bottom douping and top douping system.	(4)
	В	) Draw the diagram of crossed shed and open shed in leno weaving.	(8)
		OR	
	C	) Construct the draft to produce stripe effect with the combination of plain weave and straigh	t
		aft leno.	(4)
	מת מייי	Draw the interlacing diagram produced from the above draft with the shedding order of -	
		picks open shed and 4 picks crossed shed.	(8)

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# DIPLOMA IN HANDLOOM AND TEXTILE TECHNOLOGY

# ANNUAL/SEMESTER EXAMINATION - April / May - 2018

#### (Regulation 2011)

Time: 3 Hours Semester: V Semester Max Marks: 80 Subject code & Name: 5.2 FABRIC STRUCTURE & ANALYSIS – IV

#### **PART-A**

Answer all the questions within 2 to 3 sentences.

(2x10 = 20)

- 1) Name the special heald used for leno weaving.
- 2) Draw the straight draft of leno weaving.
- 3) Name the different sheds formed in leno weaving.
- 4) Indicate heald lifting plan for open and crossed shed.
- 5) Draw 8x 4 count of graph paper.
- 6) If the cloth density is 80x60 (EPI&PPI) which count of graph paper is suitable.
- 7) Write the interlacement of stitching ends while inserting the fast wadding pick in pique fabric
- 8) Explain the use of working comber board for producing figured pique.
- 9) What are the objectives of cloth analysis?
- 10) Find EPI& PPI of the sample supplied to you.

#### **PART-B**

Answer all the questions in detail.

 $(4+8) \times 5 = 60$ 

- (4) 11. A) Explain the function of easer motion in leno weaving. (8)
  - B) Draw the formation of crossed shed in leno weaving and explain.

(4)

(8)

- C) Draw top douping and bottom douping in leno weaving.
- D) With suitable diagram, explain in brief different types of sheds formed in leno weaving.
- 12. A) Illustrate the drafting diagram for pointed draft leno combined with plain weave to form stripe (4)
  - B) From the above draft, Draw the thread interlacing diagram with lifting plan for 4 picks (8) for the shedding order of 2 open, 2 cross.

OR

- C) Illustrate the drafting diagram for straight draft leno combined with twill weave (3 up 1 down) (4) to form stripe effect.
- E) From the above draft, draw the thread interlacing diagram with lifting plan for 4 picks (8)for the shedding order of 2 open, 2 cross.

13. A) What is the method of selecting appropriate count of graph paper for graph designing	(4)
H) Taking 18x18 guide graph, Indicate the complete structure of warp backed cloth in 36 endsx18 picks using 6 thread twill for binding on both side?	(%)
OR	
C) Draw the diagram of pressure harness set with 2 & 3 decked mail and 5 special heald shaft.	(4)
<ul> <li>F) Taking 18x18 guide graph, Indicate the complete structure of weft backed cloth in</li> </ul>	4400
18 ends x36 picks using 6 thread twill for binding on both side.	(8)
14. A) Mark the weaves used for figure and ground portion of figured pique.	(4)
B) Taking 12 x 9 guide graph, mark the complete structure of patent satin on 36 x 36.	(8)
OR	
C) Mark the weaves used for figure and ground portion of figured patent satin.	(4)
D) Taking 12 x 9 guide graph, mark the complete structure of figured pique on 36 x 36.	(8)
15. Analyze the sample supplied to you and extract the followings.	(6)
a) Weave	(8)
b) Draft and peg plan.	(4)

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## DIPLOMA IN HANDLOOM AND TEXTILE TECHNOLOGY

SEMESTER EXAMINATION - NOV/DEC-2017

		(2014 REGULATION)	
<b>S</b>	emeste	er: V Semester Hours : 3 Hour	<b>S</b>
		Max.marks:80	
S	ubject	Code & Name: 5.2 FABRIC STRUCTURE-IV	
1		efine the structure of 'Extra Warp'.	K 10 - 20
2	) Na	ame two products produced with 'Extra West Figuring' principle.	
3		hat is the interlacement of Finer ends in Patent Satin? Why is it arranged so?	
4	) WI	hen do we use Non-reversible tapestry structure?	
5	) WI	hy do we use of different counts of graph paper in figured designing?	
6	) Or	ive any suitable Yarn count and Threads per inch for weaving Warp Backed structure.	
7 8		ow are 4 different colour effects produced in Double cloth?	
9		ention any two special harne4ss set-ups that are used for weaving Double cloth.  raw the interlacing diagram of Gauze structure.	•
		hat are the special mechanisms used in leno weaving?	
*	<i>0)</i> • <b>v</b> •1	hat are the special mechanisms used in leng weaving?	
		PART-B	
1	1) (A)	a) Differentiate Extra Warp and Extra Weft. (4 Points)	4
	(B)	A loom is set with 2 healds (1.2) for ground ends and 8 healds (3 to 10) in pointed draft for extra warp ends -3, 4, 5, 6, 7, 8, 9, 10, 3, 10, 9, 8, 7, 6, 5, 4. The ratio is 1 ground: 1 Extra warp and the repeat is 32 ends. Draw the complete structure of an Extra Warp design in 32 Ends X 32 Picks suitable for the said draft. Indicate the peg-plan in 10 Ends X 32 Picks for pegging the lattices.	8
		OR	
	(C)	What are the different styles of arranging figures in Extra West Figuring technique	?
	(D)	A loom is set with 6 healds in pointed draft repeating on 12 ends -1, 2, 3, 4, 5, 6, 1, 6, 5, 4, 3, 2. Draw the complete structure of an Extra Weft desi 12 Ends X 24 Picks suitable for the said draft. Indicate the tie-up and treadling or	
12	2) (A)	Mention Threads/" and Counts of different series of warp and weft used for weavi coarser Patent Satin fabric.	ng a 4
	(B)	Indicate the three weaves of Reversible 3 Picks Weft Tapestry. Draw the weft interlacing diagram of the same.	8
		OR	
	(C)	Indicate the Four weaves on Non-Reversible 4 Picks Weft Tapestry.	4
	(D)	Draw the weft interlacing diagram of the above structure.	8

13)	(A)	Suggest suitable count of graph paper for designing a figured fabric of 120 Ends X 90 Picks.	4
	(B)	Taking a part of figure in 24 X 24 guide graph, develop the complete structure of West Backed in 24 Ends X 48 Picks with suitable binding marks.	8
		OR	
	(C)	motif.	4
	(D)	Taking a part of figure in 24 X 24 guide graph, develop the complete structure of Warp Backed in 48 Ends X 24 Picks with suitable binding marks.	8
14)	(A)	Sketch the Draft order followed in Sectional Tie – Sectional Draft loom indicating hook, needle, end numbering with end colouring.	4
	(B)	Develop the complete structure of Two colour effect Double cloth in 48 X 48.	8
		OR	
	(C)	Sketch the Draft order followed in Straight Tie- Sectional Draft loom indicating hook, needled, end numbering with end colouring.	4
	(D)	Develop the complete structure of Four colour effect Double cloth in 48 X 48.	8
15)	(A)	Differentiate between Cord effect and Net effect produced in Leno weaving.	4
	(B)	Draw the interlacing diagram of Leno structure produced using Straight and Pointed draft.	8
		OR	
	(C)	Indicate the Leno structures produced using Single Beam and Double Beam.	4
	(D)	Draw the neat Drafting Diagram showing the formation of any two Shades formed in Leno weaving.	8

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#### DIPLOMA IN HANDLOOM AND TEXTILE TECHNOLOGY

SEMESTER EXAMINATION - NOV/DEC-2017

(2011 REGULATION)

Time: 3 Hours Max.marks:80 Semester: V Semester Subject Code & Name: 5.2 FABRIC STRUCTURE & ANALYSIS-IV  $2 \times 10 = 20$ PART-A Draw the interlacing diagram of Gauze structure. 1) What are the special mechanisms used in leno weaving? 2) Sketch the two types of Doups used in leno weaving. 3) Indicate the simple pointed draft used in leno weaving. 4) Why do we use different counts of graph paper in figured designing? 5) 6) What is 'Non-Reversible Damask'? What is the interlacement of Finer ends in Patent Satin? Why is it arranged so? 7) Differentiate Loose back and Fast Back structure in Pique? 8) How do you convert the given weight of fabric of 1 square yard to 1 square meter? 9) 10) What are the factors required for estimating the cost of fabric? PART – B 11) (A) Differentiate between Gauze and Leno structure. 4 (B) With neat diagram explain the working of Easer motion and Shaker motion in 8 Leno weaving. OR (C) Differentiate between Top Douping and Bottom Dou; ping in Leno weaving. 4 (D) Draw the neat Drafting Diagram showing the formation of any two Sheds 8 formed in Leno weaving. 12) (A) Indicate the drafting diagram for weaving Leno combined with plain weave. 4 (B) From the above draft, draw the interlacing diagram of Leno structure combined with plain weave. OR (C) Indicate the drafting diagram for weaving Leno combined with twill weave. 4

(D) From the above draft, draw the interlacing diagram of Leno structure combined

with twill weave.

13)	(A)	Sketch the drafting diagram (side view) of pressure harness set combined with 5 healds.	4
	(B)	Develop the complete structure Weft Backed in 24 Ends X 48 Picks with suitable	8
		binding marks based on part of figure in 24 X 24 guide graph.	
		OR	
	(C)	Suggest suitable count of graph paper for designing a figured fabric of 60 Ends X 45 Picks.	4
	(D)	Taking a part of figure in 16 X 20 guide graph, develop the complete structure of Damask fabric in 40 X 40, woven using 2 & 3 pressure harness combined with 5 healds and each card working for 2 picks.	8
14)	(A)	Indicate the drafting diagram of loom set in working comber board harness Principle combined with healds for weaving Patent Satin.	4
	(B)	Develop complete structure of 4 picks Figured Pique in 48 X 48 based on part of figure in 16 X 12 guide graph.	8
		OR	
	(C)	Indicate the drafting diagram of loom set with jacquard and healds for weaving Figured pique.	4
	(D)	Develop complete structure of Patent Satin in 48 X 48 based on part of figure in 16 X 12 guide graph, woven using jacquard set in working comber board combined with healds and each card is used for weaving 2 coarse picks.	8
15)		Analyze the Fabric sample supplied and mark the Weave. Indicate the Draft and Peg-plan of the weave analyzed.	12

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#### DIPLOMA IN HANDLOOM AND TEXTILE TECHNOLOGY

SEMESTER EXAMINATION APRIL/MAY-2017 (2014 REGULATION)

Time: 3 Hours V SEMESTER

#### 5.2 FABRIC STRUCRURE - IV

Max. Marks: 80

#### PART - A

	1	(Answer all the questions within two to three sentences) 2 x 10 What are the different methods of controlling/disposing of floats in extra warp?	=20 Mark
*	2	What is planting in extra warp weaving?	
١ .	3	Name the series of ends and picks used in patent satin weaving	
	4	Give one example of traditional fabric in which traditional tapestry technique is used.	
	5	How will you decide the count of graph paper for enlargement of figures?	
	6	How many series of ends and picks are used in figured warp backed fabric?	
	7	What is the punching procedure for 4 colour figured double cloth?	
	8	Mark the ground & figure weaves of 2 colour Double cloth.	
	9	What are the types of shed formed in leno weaving?	
	10	What are the types of doup healds used in leno weaving?	
		$\underline{PART-B} \qquad 12 \times 5 = 6$	0 Marks
11	A	Draw an extra warp motif on 16 x 16.	(4)
-	B)	Taking 1:1 ratio of ground & extra ends mark the full structure for the above motif.	(8)
-	C)	(OR)  Calculate the number of picks required for enlargement for extra west design.  PPI-80 G:E::1:1 Size of motif – 1"	(4)
	-D)	Taking a motif on 12 x 12, mark the full structure of extra west design with 1:1 ratio of ground & extra picks.	(8)
12	A)	What are the types of interlacement of warp & west threads in patent satin?	(4)
	B)	Taking a motif on 6 x 6, mark the full structure of patent satin.  (OR)	(8)
	C)	Draw the thread interlacing diagram(flat view) of traditional tapestry(2 picks) structure.	(4)
	D)	Indicate the three weaves of 3 pick tapestry structure.	(8)
13	A)	Draw the straight drafting order for straight tie.	(4)
	B)	Taking a small motif enlarge on 20 x 20 with suitable binding mark to produce figured single cloth.	(8)
		(OR)	
	C)	What type of effect figured backed cloth produce in fabric?	(4)
	D)	Taking small motif on 10 x 10, mark the full structure of west backed cloth.	(8)

14	A)	What are different techniques used for producing figured double cloth?	(4)
	B)	Mark the full structure of a 4 colour double cloth by taking a motif on 24 x 24.	(8)
	<b>C</b> )	OR)  Draw the drafting order for straight tie & sectional draft jacquard set-up for producing double cloth.	(4)
	D)	Mark the full structure of a 2 colour double cloth by taking a motif on 48 x 48.	(8)
15	<b>A</b> )	Draw the passage of threads in simple leno weaving loom.	(4)
	B)	With line diagram mark the lifting order followed for producing different types of sheds in leno weaving.	(8)
	_	(OR)	
	C)	Draw the diagram showing the formation of crossed in leno weaving.	(4)
	D)	Draw thread interlacing diagram & drafting order to produce leno with pointed draft.	(8)

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### DIPLOMA IN HANDLOOM & TEXTILE TECHNOLOGY FIFTH SEMESTER ( 2014 - REGULATION) - NOV/DEC.2016.

II	me: 3 Hours.	5.2 - FABRIC STRUCTURE - IV	Max.Marks:8
	<b>&gt;&gt; </b>		$(2 \times 10 = 20)$
i.	What is Anchori	ng of spot effect in Extra warp?	
ii.	Define Chitzing	in Extra west.	
iii,	Differentiate bet	ween Reversible and Non-Reversible Tapestries.	
iv.	Write the Weft s	eries used in combined warp and weft Tapestries.	
ν,	Draw the diagram	m of one block of 8 X 5 graph count.	
vi.	EPI and 60 PPI i	ropriate count of graph paper used for developing graph to weav using 240 hooks jacquard?	
vii.	What are the two	different jacquard setups used for weaving figured double cloth?	
iii.	Calculate the size double cloth of the	to of punching graph for 400 Hooks jacquard set with sectional of 500 picks.	fraft to produce figure
ìx.	Sketch the interl	acing diagram of Gauze weave using 4 ends and 4 picks.	
X.	Name the two m	echanisms used in weaving leno fabrics.	
I,		a. Arrange the given 12 X 12 design in 1 : 1 Extra warp	
	X	b. Indicate its draft and lifting plan (OR)	(4+2)
	S A K B K  R A R A A A A A  R A R A A A A A  R A R A	e. Arrange the given 12 X 12 design in 1:1 Extra weft st b. Indicate its draft and lifting plan	tyle in 12 X 24 (6) $(4+2)$
I. a.	. Indicate the two	weaves of Patent Satin.	(4
b		ree weaves draw the west interlacing diagram of Three picks west (OR)	Tapestry. (8
C.	Distinguish betw	een Traditional Tapestry and Modern Tapestry.	(4
d	. Indicating any th	aree weaves, draw the west interlacing diagram of Four picks west	Γapestry. (8)
/. a. b.	What are the four Take 48 x 48 gr	r stages and its importance involved in developing jacquard graph aph, divide it with 4 segments. Show these four stages using a small (OR)	for punching? (4) all motif. (8)
		•	
C.		tween warp backed and west backed cloth structures.	(4)
d.	Taking a guide g	raph in 24 X 24, develop warp backed structure in 48 X 24.	(8)
, a.		ng diagram of Straight tie - Sectional draft jacquard setup.	(4)
b.	Indicate the struc	ture of figured two colour Double cloth taking 48 X 48.  (OR)	(8)
C.	Sketch the drafting	ng diagram of Sectional tie - Sectional draft jacquard setup.	(4)
d.		ture of figured four colour Double cloth taking 40 X 40.	(8)
. a.	Draw the neat dia	gram showing the formation of Crossed shed in Leno weaving	(4)
		g and interlacing diagram to produce stripe effect of Leno with pla (OR)	in weave. (8)
C.	Draw the neat dia	gram showing the formation of Open shed in Leno weaving.	(4)
d.	Sketch the drafting	and interlacing diagram of Leno weave to produce Cord effect.	(8)

# INDIAN INSTITUTE OF HANDLOOM TECHNOLOGY BARGARH/FULIA/GUWAHATI/JODHPUR/SALEM/VARANASI/CHAMPA/KANNUR/KHTI-SADAG/SPKMIHT-VENKATAGIRI

# DIPLOMA IN HANDLOOM & TEXTILE TECHNOLOGY FIFTH SEMESTER (REGULAR) EXAMINATION - NOV/DEC-2015

#### 5.2 - FABRIC STRUCTURE & ANALYSIS - IV

TIME: 3 HOURS

MAX. MARKS: 80

(2X10=20)

I. Answer all questions in two or three sentences:

i. How are the warp beams used in guaze and Leno Weaving?

ii. How do you make the crossed shedding easier in Bottom Douping?iii. Name the healds lifted for open shedding in bottom douping.

iv. Indicate any two differences between bottom douping and top douping.

v. Draw the diagram of a repeat of 8x5 graph count.

vi. Define the term 'Damask'.

vii. What is 'Working comber board'?

viii. Why do we use wadding west in pique weaving?

ix. Why is picks per inch lesser than ends per inch in most of the handloom fabrics?

x. How do you identify warp direction in the given cloth sample?

#### PART-B .

Answer all questions in details:

II. a. Differentiate Gauze and Leno structure (4 points)

b. Draw neat diagram showing the formation of Crossed shed in bottom doup Leno weaving.

OR

c. Differentiate Easer and Shaker motions (4 points).

d. Draw neat diagram showing the formation of Open shed in bottom doup Leno weaving.

(04)

III. a. Illustrate the drafting diagram for Pointed draft Leno combined with plain weave to form stripe effect.

b. Draw the thread interlacing diagram for 4 picks for the above structure with lifting plan.

OR

c. Illustrate drafting diagram for Straight draft Leno combined with twill weave to form stripe effect. (04)

d. Draw the thread interlacing diagram for 4 picks for the above structure with lifting plan. (08)



(08)

IV. a.	. Indicate the drafting order (top view) for weaving 8 thread Damask using Pressure Harness.	(04)
b	. Taking 48E x48P size, indicate the complete weave structure of figured Warp Backed cloth with 6 thread twill binding.	(08)
	OR	
e. d.	Differentiate between Warp and Weft Backed cloth (4 points). Taking 20E X 16P guide graph, indicate the complete weave structure of 5 threads Damask in 50E X 48P woven using pressure harness of 2 and 3 decked mail with 5 healds and 3 picks per card.	(04) (08)
V. a.	Describe the jacquard and healds arrangement for weaving Patent Satin with drafting diagram.	(04)
b.	Taking 16E X 12P guide graph, indicate the complete weave structure of Figured Pique of 4 picks style in 48E X 48P.	(08)
	OR	
c.	Describe the jacquard and healds arrangement for weaving Figured Pique with drafting diagram.	(04)
d.	Taking 16E X 12P guide graph, indicate the complete weave structure of Patent Satin in 48E X 48P woven using Working Comber Board system.	(08)
VI. a. b.	Analyse the given sample and extract the weave repeat Indicate the draft and peg-plan of the weave.	(08) (04)



BARGARH FULLAGUWAHAT LIODHPUR SALFAEVARANASI CHAMPA/KANNUR/KILIT, GADAG, SPKMHIT VENKATAGIRI

#### DIPLOMA IN HANDLOOM AND TEXTILE TECHNOLOGY FIFTH SEMESTER (OLD – BACK PAPER) – APRIL/MAY-2016

#### 5.2 FABRIC STRUCTURE AND ANALYSIS-IV

Fime: 3 Hrs

Max Marks: 80

#### PART-A

1	An	swer all the questions within 2 to 3 sentences:	(10=20
	a)	Discuss the weaving technique of producing gauze and leno effect in a fabric.	
	b)	Enumerate the importance of Easer mechanism in weaving gauze and leno structures.	
	(0)	Name the various sheds in leno weaving.	
	d)	How crossed shed is produced in leno weaving?	
	e)	What do you understand by the term 'True Damask'?	
	1)	What is the purpose of introducing wadding threads in backed cloth structure?	
	6)	Mention the weagving technique of Patent satin structure.	
	h)	Which is the size of Point Paper you would select for designing for a fabric with 64 ends and 40 picks per inch?	
	سلل	Suggest a few points for identifying weft direction in a woven fabric.	
	j)	A fabric with 52 inch width, measures 48 inch when the same being removed from loom.	
		what is the west crimp percentage in the fabric. $52 - 48$	
		what is the west crimp percentage in the fabric.	
		swer all the following questions in detail:	
11	- 17	Make a comparity study of gauze with that of leno structure.	4
	p)	With suitable line sketches explain in brief the various sheds formed in leno weaving.	8
	Ì	OR	
	c)	Discuss the advantage and disadvantage of loose bottom doup with that of fixed bottom dour	p. 4
	d)	With suitable diagram, explain in brief the simple cross over effect in Leno weaving.	8
111	a)	Illustrate the drafting diagram for Pointed draft Leno combined with twill (3 up 1 down) to form stripe effect.	4.
	b)	Draw the thread interlacing diagram for 4 picks for the above structure with lifting plan.	8
		OR	
		Illustrate drafting diagram for straight draft Leno combined with plain weave to form stripe effect.	4
,	de	Draw the thread intrlacing diagram for 4 picks for the above structure with lifting plan.	8
ΙV	a)	Discuss in brief the factors influencing the selection of appropriate size of graph paper for textile designing.	4 8
	b)	Indicate the drafting order (top view) for weaving 8 thread Damask using pressure Harness.	8 81
	•	OR	
	سبنه	Differentiate the warp backed structure with that of west backed structure.	4
	سنلك	By taking 40 ends x 40 picks size, indicate the weave structure of figured warp Backed clot with 5 thread twill binding.	

		1 A	
V	a)	Describe the jacquard and healds arrangement for weaving patent satin with drafting diagram.	4
	b)	By taking 16 Ends X 12 Picks guide graph, indicate the complete weave structure of figured	8
		pique of 4 picks style-48 Ends X 48 Picks.	
		OR	
	c)	Describe the Jacquard and healds arrangement for weaving figured pique with drafting diagram.	4
	d)	By taking 16 Ends, X 16 Picks as guide graph indicate the complete weave structure of Patent	8
		satin, 24 Ends X 32 Picks, woven with straight tie plus healds method.	
1/1	a)	Analysis the given consults and indicate the $C = 1$	=4
V 1	a)	Analyse the given sample and indicate the following details:	,,,,
		i) Ends per inch, Picks per inch	
		ii) End use of the cloth sample	
	b)	Find the weave and indicate its draft and peg plan. $4+2+2=$	=8

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## INDIAN INSTITUTE OF HANDLOOM TECHNOLOGY

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#### DIPLOMA IN HANDLOOM AND TEXTILE TECHNOLOGY FIFTH SEMESTER (2011 - REGULATION) EXAMINATION -NOV/DEC-2016

5.2-FABRIC STRUCTURE AND ANALYSIS-IV

Ti	mei 3 l	Hours Max.N	larks: 80
		PART - A	
ı.	4.5	the end three time described in a track that the track the track that the track t	X10=20)
	1)	Name the ends used in Ieno weaving	
	H)	Draw straight draft of leno weaving.	
	iii)	Indicate heald lifting plan for ordinary and open shed in leno weaving.	
	iv)	Define "Bottom doup" in leno weaving.	
	v)	Draw 6 x 8 count of graph paper.	-6
	vi)	If the figured cloth density is (EPI & PPI) 48 x 60 which count of graph paper is suitable	<b>6</b> ?
	vii)	Name ends and picks used in patent satin designing.	
	viii)		
	ix)	Find ends/inch and picks/inch of the sample supplied to you.	
	x)	Find material used in warp & west of then sample supplied to you.	
		PART B	
11.	Ansv	wer all the questions in detail	
	A)	Draw the formation of crossed shed in leno weaving.	(4)
	B)	Explain the working of Easer motion in leno weaving.	(8)
	,	(OR)	
	C)	With suitable diagram, explain in brief different types of doup system used in leno	(4)
		weaving.	
	D)	With suitable diagram, explain plain & ordinary sheds formed in leno weaving.	(8)
III.	A)	Draw the draft to produce leno & plain stripe fabric.	(4)
	B)	Draw thread interlacing diagram of leno structure in straight draft with 4 standard and 4	(8)
	,	crossing ends.	
		(OR)	
	C)	Draw the draft to produce leno & twill stripe fabric.	(4)
	D)	Draw thread interlacing diagram of leno and plain stripe fabric along with drafting	(8)
**/	4)	Explain the factors that influencing the selection of proper count of graph paper.	(4)
IV.	A)	Take 40 x 20 indicate the structure of warp backed cloth or take 20 x 40 indicate west	(8)
	B)	backed cloth using 5 thread twill on both side.	( )
		(OR)	
	C)	Draw the diagram of pressure harness set with 2 & 3 decked mail eyes alternately & 5	(4)
	C)	enecial heald shaft	
	D)	Using 16 x 16 guide graph, indicate the complete structure of Damask fabric in 48 X 48,	(8)
	Σ,	woven with the pressure harness set 3 decked mail eyes and 8 heald shaft.	
w.r ·	A)	Mark the weaves used for figure and ground portion of figured patent satin.	(4)
V.	B)	Using 16 x 12 guide graph, mark the complete structure of patent satin on 48 x 48.	(8)
	D)	(OR)	
	C)	Classify figured nique structures.	(4)
	D)	Using 16 x 12 guide graph, mark the complete structure of figured pique on 48 x 48.	(8)
VI.		ze the sample supplied to you and derive the followings.	(4)
	A)	Weave.	(8)
	B)	Draft and peg plan of the derived weave.	(-)

# INDIAN INSTITUTE OF HANDLOOM TECHNOLOGY Bargarh/Guwahati/Fulia/Jodhpur/Salem/Varanasi/Champa/Kannur/KHTI,Gadag/SPKM IIHT Venkatagiri DIPLOMA IN HANDLOOM & TEXTILE TECHNOLOGY V SEMESTER EXAMINATION- NOVEMBER / DECEMBER 2016

## 5.2 FABRIC STRUCTURE & ANALYSIS-IV (2011-Regulation)

Ti	me : 3 Hours	Max.Marks:80
	PART-A	
1.	Answer all the Questions	[10x2=20]
	i Draw Straight draft of leno weaving. ii Draw Pointed draft of leno weaving. iii Indicate heald lifting plan for crossed shed in leno weaving. iv What are the different types of shed formed in leno weaving. v Draw 12 X 8 count of graph paper. vi If the cloth density is (EPI & PPI) 48 X 36 which count of graph paper is suitable. vii Define the term "Decked mail eye". viii Write the order of ends and picks used in Patent satin. ix Find EPI & PPI of the sample supplied to you. x End use of the sample supplied to you.	
	PART-B	
Αn	swer the following questions in detail	
II.	a. Give a brief note on Gauze weaving.	[4]
	b. Draw the formation of crossed shed in leno weaving and explain.	[8]
	(OR)	
	c. Give a brief note on leno weaving.	[4]
	d. With suitable diagram, explain in brief different types of sheds formed in leno weaving.	[8]
II.	a. Draw the draft to produce stripe fabric using plain & leno.	[4]
	b. From the above draft draw the interlacing diagram, design with the shedding order of -2 open, 2 cross, 2 open, 2 cross (8 picks).	[8]
	(OR)	
	c. Draw the draft to produce stripe fabric using twill and leno.	[4]
	d. From the above draft draw the interlacing diagram, design with the shedding order of -2 open, 2 cross, 2 open, 2 cross (8picks).	[8]

IV.	a.	Draw the diagram of pressure harness set with 2 & 3 decked mail & 5 special heald shaft.	[4]
	b.	Taking 36 ends X 36 picks indicate the structure of warp backed cloth using 6 thread twill for binding on both side.	[8]
		(OR)	ž
	c.	Differentiate "Warp backed cloth and West backed cloth",	[4]
	d.	Taking 40 ends X 40 picks indicate the structure of weft backed cloth using 8 thread twill for binding on both side.	[8]
٧.	a	. Differentiate fast & loose back pique structures.	[4]
	b	b. Using 12 X 9 guide graph figure, mark the complete structure of patent satin on 36 X 36.	[8]
		(OR)	
	Ç	c. Explain " patent satin" with suitable examples.	[4]
	(	1. Using 12 X 9 guide graph, mark the complete structure of figured pique on 36 X 36.	[8]
VI		Analyse the sample supplied to you and extract the followings.	
2 3 20		a. Weave.	[8]
	9	b. Draft and peg plan of the weave.	[4]

BARGARH/GUWAHATI/FULIA/JODHPUR/SALEM/VARANASI/CHAMPA/KANNUR/KHTI GADAG/SPKM VENKATAGIRI

#### DIPLOMA IN HANDLOOM AND TEXTILE TECHNOLOGY

SEMESTER EXAMINATION APRIL/MAY-2017 (2011 REGULATION)

Time: 3 Hours Max. Marks: 80 V SEMESTER 5.2 FABRIC STRUCRURE & ANALYSIS- IV PART - A (Answer all the questions within two to three sentences) 2 x 10=20 Marks Name the special heald used for leno weaving. 1 2 Name the fabric produced by using leno weaving. 3 What are the two series of warp used in leno weaving? Mention the denting order/method for leno weaving 4 5 What is the suitable count of graph paper for weaving 100 EPI & PPI? 6 What is the special jacquard system used in Damask weaving? 7 How many series of warp and west used to produce Patent satin? 8 Name the series of warp and west used to produce Pique fabric. 9 Write the formula for calculating Crimp percentage Write any two factors involved in costing of fabric 10 PART - B  $(4+8) \times 5 = 60 \text{ Marks}$ 11 A) Draw the different doup healds with neat sketch **(4)** B) Explain the different shed formation in leno weaving with neat sketch (8) (OR) C) Draw the pointed draft in leno weaving. (4) D) Explain the method of producing crossover effect in leno weaving. (8) 12 Explain the functions of Easer motion in leno weaving. A) (4) B) Explain the method of producing check effect in leno weaving (8) (OR) C) Explain the type's leno fabrics. **(4)** D) Explain the differences between Gauze and Leno (8) A) Draw the different counts of point paper with figure 13 (4) B) Construct the figured weft backed structure on 40 ends and picks by (8) using 5 thread twill for both side binding (OR) C) Write the differences between warp and weft backed fabrics. **(4)** Explain the method of producing Damask by using healds and jacquard D) (8)combination.

14	A)	Describe the production of Patent satin.	(4)				
	B)	Explain the method of producing Patent satin with working comber board method.	(8)				
	(OR)						
	C)	Write the differences between loose and fast back pique structures	(4)				
	D)	Construct the structure of figured pique on 36 x 36 by using 12 x 9 guide design.	(8)				
15	Analyse the given sample and give the following details -						
	A)	EPI &PPI	(4)				
	B)	Weave	(8)				
		(OR)					
	C)	Crimp percentage of warp and weft	(4)				
	D)	Estimate the weight per square metre of the given sample	(8)				