

INDIAN INSTITUTE OF HANDLOOM TECHNOLOGY
BARGARH/GUWAHATI/FULIA/JODHPUR/SALEM/VARANASI/CHAMPA/KANNUR/KHTI GADAG/SPKM VENKATAGIRI
DIPLOMA IN HANDLOOM AND TEXTILE TECHNOLOGY
SEMESTER EXAMINATION - NOV/DEC-2017

(2011 REGULATION)

Semester: VI Semester

Time: 3 Hours

Subject Code & Name: 6.2 FABRIC STRUCTURE & ANALYSIS -V

Max.marks:80

PART - A

(Answer all the questions within two or three sentences)

(2 x 10 = 20 Marks)

1. How many ends & picks is required for making simple 3 pick terry weave.
2. Name any one jacquard setup used for producing figured double cloth 2 color effects.
3. Define Reversible Tapestry.
4. Define Non Reversible Tapestry.
5. Name 02 extra warp design fabrics.
6. Define Chintzing.
7. Which technique is adopted for producing Pithani saree.
8. Which technique is adopted for producing Jamdhani saree.
9. How do identify the warp direction from the supplied cloth.
10. How do identify the weft direction from the supplied cloth.

PART - B

(Answer all Questions in detail)

(4+8) X 5 = 60 Marks

11. a) Make 3 pick and 4 pick terry designs. (4)
b) Take 36 X 36 to indicate a complete structure of double cloth 2 color effect. (8)
(or)
c) Differentiate between extra warp and extra weft design. (4)
d) Sketch the jacquard loom arrangement used for weaving terry pile for straight tie straight draft with heald shaft. (8)
12. a) Mark any 02 weaves of 3 pick non reversible weft tapestry. (4)
b) Mark any 02 weaves of 4 pick reversible weft tapestry with interlacement diagram. (8)
(or)
c) Mark any 02 weaves of 4 pick non reversible weft tapestry. (4)
d) Mark any 02 weaves of 3 pick reversible weft tapestry with interlacement diagram. (8)

13. a) Explain anchoring of spot effect. (4)
b) Taking guide graph in 20 X 20, indicates its complete structure of extra warp figuring with 1:1 order in 40 ends X 20 picks (8)
(or)
c) Sketch the jacquard loom arrangement used for weaving extra warp designs. (4)
d) Taking guide graph in 20 X 20, indicates its complete structure of extra weft figuring with 1:1 order in 20 ends X 40 picks (8)
14. a) Mention necessary weaving particulars for Silk saree. (4)
b) Write down the speciality & technique of Jamdhani Saree (8)
(or)
c). Mention necessary weaving particulars for cotton shirting. (4)
d) Write down the speciality & technique of Banaras Brocades Saree (8)
15. a) Analyze the given sample to extract EPI & PPI (4)
b) Analyze the given sample to extract material used warp & weft crimp reed count and end uses (8)
(or)
c) Analyze the given sample to extract Warp count & Weft count (4)
d) Analyze the given sample to extract Weave, Draft and pegplan (8)

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DIPLOMA IN HANDLOOM AND TEXTILE TECHNOLOGY
SEMESTER EXAMINATION - NOV/DEC-2017

(2014 REGULATION)

Semester: VI Semester

Time: 3 Hours

Subject Code & Name: 6.2 FABRIC STRUCTURE -V

Max.marks:80

PART - A

(Answer all the questions within two or three sentences)

(2 x 10 = 20 Marks)

1. Define Planting
2. Define Chintzing
3. Name ends and picks used in Patent satin designing
4. Name ends and picks used in Figured pique designing
5. Define reversible damask
6. Name ends and picks used in 3 pick weft tapestry designing
7. Define the term "Non Reversible Damask"
8. Define reversible terry piles
9. Name 02 traditional fabrics
10. Name the origin of Himroo shawls and Bandhani sarees.

PART - B

(Answer the following questions in detail)

(4+8) X 5 = 60 Marks

11. a) Differentiate between extra warp and extra weft (4)
- b) Take 24 X 24 and indicates its complete structure of extra warp with 1:1 order in 48 X 24. (8)
- (or)
- c) Explain briefly different styles of weaving Extra warp & weft and give example each of them. (4)
- d) Take 24 X 24 and indicates its complete structure of extra weft with 1:1 order in 24 X 48. (8)
12. a) Mark 02 weaves of Patent Satin (Ground and Figure). (4)
- b) Using 16 X 12 guide graph, indicate the complete structure of Figured Pique in 48 X 48. (8)

(or)

- c) Mark 02 weaves of Figured Pique (Ground and Figure). (4)
- d) Using 16 X 12 guide graph, indicate the complete structure of Patent satin in 48 X 48 (8)
13. a) Draw the diagram of pressure harness set with 2 & 3 decked mail eye & 5 special heald shaft (4)
- b) Using 16 X 12 guide graph, indicate the complete structure of Damask fabric in 48 X 48, woven with the pressure harness set 3 decked mail eye and 8 heald shaft. (8)
- (or)
- c) Explain reversible and non reversible tapestry. (4)
- d) Draw the design and interlacement diagram of four weaves of four pick non reversible weft tapestry (8)
14. a) Sketch the jacquard loom arrangement used for weaving terry pile for straight tie sectional draft with heald shaft (4)
- b) Explain briefly inverted hook jacquard with suitable diagram. (8)
- (or)
- c) Sketch the jacquard loom arrangement used for weaving terry pile for sectional tie sectional draft. (4)
- d) Using 12 X 12 guide graph, mark the complete structure of 4 picks figured terry on 48 X 48. (8)
15. a) Write down the specialty of Paithani Saree (4)
- b) Mention necessary weaving particulars for Cotton saree and Cotton Bed sheet (8)
- (or)
- c) Write down the speciality of Kancheepuram Saree (4)
- d) Draw the layout of Kancheepuram Saree (Border, pallow and Butta) (8)

DIPLOMA IN HANDLOOM & TEXTILE TECHNOLOGY
SIXTH SEMESTER (BACK PAPER) EXAMINATION – NOV/DEC-2015

6.2 - FABRIC STRUCTURE & ANALYSIS-V

TIME: 3 HOURS

(PART-'A')



MAX. MARKS : 80

I. Answer all questions in two or three sentences:

(2X10=20)

- i. What are the two jacquards setup used for producing figured Double cloth?
- ii. Define – Reversible and Non-reversible Terry piles.
- iii. Indicate weave repeat of two weft Tapestry.
- iv. Define – Traditional Tapestry
- v. Mention two styles of Extra warp figuring technique
- vi. Give two methods of controlling floats in ground area of Extra weft figuring technique.
- vii. Mention the dimensions of Shawl and Scarf.
- viii. What is the ground weave of Kancheepuram saree and Banaras saree?
- 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')

II. Answer all the questions in detail:

- a. Draw simple diagram of hooks and knife bars setting of inverted hook jacquard. (04)
- b. With the aid of card diagram (4 cards), illustrate the punching procedure for weaving 2 colour figured double cloth using Sectional tie with Sectional draft. (08)

OR

- c. Mark two weaves of 3 picks reversible Terry weaves used for producing figured terry fabric. (04)
- d. Indicate the complete weave structure of 2 colour figured double cloth in 40X40. (08)

III. a. Mark any two weaves of three picks weft Tapestry. (04)

- b. Draw the jacquard and heald set-up diagram for weaving weft Tapestry along with drafting order. (08)

OR

- c. Mark any two weaves of four picks weft Tapestry. (04)
- d. Draw the weft interlacing diagram of four picks weft Tapestry. (08)

- IV. a. Draw illustrative diagram of any two styles of Extra warp figuring techniques. (04)
b. Indicate graph structure for any one style of Extra weft figuring techniques. (08)

OR

- c. Draw illustrative diagram of any two styles of Extra weft figuring techniques. (04)
d. Indicate graph structure for any one style of Extra warp figuring techniques. (08)
- V. a. What are the four important features of Paithani silk saree? (04)
b. With neat layout diagram indicate the important features of Kancheepuram silk saree. (08)

OR

- c. What are the four important features of Jamdani silk saree? (04)
d. With neat layout diagram indicate the important features of Banaras silk saree. (08)
- VI. a. Analyse the given sample and extract the weave repeat. (08)
b. Indicate the draft and peg-plan of the weave. (04)



6.2 – FABRIC STRUCTURE AND ANALYSIS – V

Time: 3 Hrs

Max. Marks: 80

PART – A

Answer all questions in brief.

[2 x 10 = 20]

- I
- What is 'Sectional Harness Tie'?
 - Name any two techniques used for producing figured Terry piles using simplified graph.
 - What are the two differences between Traditional and Modern Tapestry?
 - Define - Repp Tapestry.
 - What is 'Planting' in figuring with Extra Threads?
 - Name any two fabrics woven with the combination of Extra warp and Extra weft.
 - Name any two traditional fabrics of your State/ Region.
 - Mention the dimensions of Sarees and Shawls.
 - How do you calculate the total hooks used for producing the given jacquard sample?
 - How do you calculate the total cards used for producing the given jacquard sample?

PART – B

Answer the following questions in detail:

- II a) Indicate any one of the techniques used for producing figured Double cloth and mention its Two advantages over other techniques. 04
- b) Mark complete weave structure of 4 Picks – Figured Terry Pile cloth in 48 x 48 based on 12 x 12 guide graph. 08
- OR
- c) What are the two advantages of using inverted hooks jacquard for producing Figured Terry? 04
- d) Mark complete weave structure of Four colour effect Figured Double equal plain cloth in 48 x 48. 08
- III a) Indicate the thickness and colouring order of warp and weft used for producing combined warp and weft tapestry. 04
- b) Draw the weft interlacing diagram of 'Non reversible Four picks weft Tapestry'. 08
- OR
- c) Mark two weaves of two picks weft Tapestry. 04
- d) Sketch the diagram of jacquard with heald set-up and drafting order for weaving weft Tapestry. 08
- IV a) Differentiate between Extra warp and Extra weft figuring techniques (4 points). 04
- b) Prepare Figured graph for Extra warp ends in 32 E X 32 P. Taking 16 E X 32 P from the graph, prepare another graph in 32 E X 32 P with 16 ground ends and 16 Extra warp ends in 1:1 order. 08
- OR
- c) Draw simple illustrative sketch of any four styles of Extra figuring techniques. 04
- d) Prepare Figured graph for Extra weft picks in 32 E X 32 P. Taking 32 E X 16 P from the graph, prepare another graph in 32 E X 32 P with 16 ground picks and 16 Extra weft picks in 1:1 order. 08
- V a) What are the four different features of Kancheepuram Saree and Banarasi Saree? 04
- b) Taking a diamond design in 15 X 15 with 4 colours – White, Yellow, Red and Maroon, indicate the steps involved in Weft Tie & Dyeing using Naphthol colours. 08
- OR
- c) What are the four different features of Paithani Saree and Jamdhani Saree? 04
- d) Taking a diamond design in 15 X 15 with 4 colours – White, Yellow, Red and Maroon, indicate the steps involved in Warp Tie & Dyeing using Naphthol colours. 08
- VI a) Analyse the given sample and extract the weave repeat. 08
- b) Indicate the draft and peg-plan of the weave. 04

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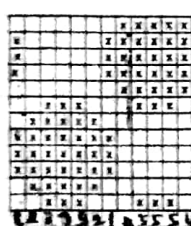
BARGARH/GUWAHATI/FULIA/JODHPUR/SALEM/ARANASI/CHAMPA/KANNUR/KHITI/GADAG/SPKM IIHT, VENKATGIRI

DIPLOMA IN HANDLOOM & TEXTILE TECHNOLOGY SIXTH SEMESTER(BACK PAPER-2011 REGULATION) – NOV/DEC.2016.

Time: 3 Hours.

6.2 – FABRIC STRUCTURE AND ANALYSIS - V

Max.Marks:80

- I. (2 X 10 = 20)
- i. Calculate the size of punching graph for 400 Hooks jacquard, set with sectional draft to produce figured double cloth of 600 picks.
 - ii. What are the two different jacquard setups used for weaving figured Terry fabrics?
 - iii. Write the Weft series used in combined warp and weft Tapestries.
 - iv. Differentiate between Reversible and Non-Reversible Tapestries.
 - v. What are the two advantages of Extra warp figuring?
 - vi. What are the two advantages of Extra weft figuring?
 - vii. Name the origin of Himroo shawls and Patola sarees.
 - viii. Name the traditional fabrics produced in Andhra Pradesh and Assam
 - ix. How do you identify warp direction in the given cloth sample?
 - x. How do you identify weft direction in the given cloth sample?
- II. a. Sketch the drafting diagram of Straight tie - Sectional draft jacquard setup. (4)
 b. Taking 48 X 48, indicate complete structure of 4 Picks Figured Terry fabric based on a guide graph in 12 X 12. (8)
- (OR)
- c. Sketch the principle of hooks and needle setup in inverted hooks jacquard (4)
 - d. Taking 48 X 48, indicate complete structure of 4 colour Figured Double cloth fabric based on a guide graph in 12 X 12. (8)
- III. a. Indicate the one weave structure of 4 colour warp and weft Tapestry (4)
 b. Indicating the three weaves, draw the weft interlacing diagram of Three picks weft Tapestry. (8)
- (OR)
- c. Distinguish between Traditional Tapestry and Modern Tapestry. (4)
 - d. Indicating any three weaves, draw the weft interlacing diagram of Four picks weft Tapestry. (8)
- IV.  a. Arrange the given 12 X 12 design in 1 : 1 Extra warp style in 24 X 12 (6)
 b. Indicate its draft and lifting plan (4 + 2)
- (OR)
- c. Arrange the given 12 X 12 design in 1 : 1 Extra weft style in 12 X 24 (6)
 - d. Indicate its draft and lifting plan (4 + 2)
- V. a. What are the four colours used in traditional Naphthol Tie-Dyeing and what is its order of Dyeing? (4)
 b. Explain four important features of traditional Banaras Saree (8)
- (OR)
- c. Name any four traditional fabrics of your region and give its origin (4)
 - d. Explain four important features of traditional Kancheepuram Saree. (8)
- VI. a. Analyze the given fabric sample and extract its weave (8)
 b. Derive the draft and lifting plan of the derived weave of the sample (4)

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DIPLOMA IN HANDLOOM & TEXTILE TECHNOLOGY
SEMNESTER EXAMINATION APRIL/MAY-2017 (2011-REGULATION)

Time : 3 Hours
VI SEMESTER

6.2 – FABRIC STRUCTURE - V

Max.Marks : 80

PART- A

10x2=20 Marks

- 1 Name two different colours of warp and weft to produce 4 colour effects of Double cloth
- 2 What is the total ends per repeat achieved if 240 needle inverted hook jacquard with healds is used for producing Figured Terry?
- 3 What is the use of Reversible and Non - Reversible Tapestry?
- 4 Name the jacquard technique used for weaving modern Tapestry.
- 5 What are the different styles of arranging Extra Warp and Extra Weft figuring .
- 6 What are the different methods of anchoring Spot effect of Extra Warp and Extra Weft .
- 7 How do you identify Banaras Saree and Kancheepuramsaree?
- 8 How do you identify PaithaniSaree and Jamdhanisaree?
- 9 How do you calculate total ends per repeat of jacquard fabric sample supplied?
- 10 How do you calculate total picks per repeat of jacquard fabric sample supplied?

PART-B

12x5=60 Marks

- 11 A) Name different jacquard techniques used for producing figured Terry Pile fabric (4)
B) Explain the loom technique and drafting order (any one) used for weaving Figured Double cloth. (8)
- (Or)
- C) Name different jacquard techniques used for producing figured Double cloth (4)
D) Explain the loom technique and drafting order (any one) used for weaving Figured Terry Pile fabric. (8)
- 12 A) Indicate any two weaves of 3 picks Weft Tapestry. (4)
B) Draw weft interlacing diagram of any two weaves of 4 picks Weft Tapestry. (8)
- (Or)
- C) Indicate any two weaves of 4 picks Weft Tapestry. (4)
D) Draw weft interlacing diagram of any two weaves of 3 picks Weft Tapestry. (8)

P.T.O.

- 13 A) Explain different methods of anchoring of Extra Weft figuring (any two). (4)
- B) Taking guide graph in 16 X 16, indicate its complete structure of Extra Warp figuring with 1 Ground and 1 Figuring order in 32 ends X 16 picks. (8)
- (Or)
- C) Explain different methods of anchoring of Extra Warp figuring (any two). (4)
- D) Taking guide graph in 16 X 16, indicate its complete structure of Extra Weft figuring with (8)
- 14 A) Mention Count, Threads/", Dimension and weaves of Dress material woven in your region. (4)
- B) Write down 8 salient features of Banaras Saree (or) Kancheepuram Saree. (8)
- (Or)
- C) Mention Count, Threads/", Dimension and colours of Furnishing woven in your region. (4)
- D) Write down 8 salient features of Paithani Saree (or) Jamdhani Saree. (8)
- 15 Analyze the give sample to extract the following particulars: (2)
- A. Ends per inch and Picks per inch
- B. Weave, Draft and Peg-plan (6+2+2)

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DIPLOMA IN HANDLOOM & TEXTILE TECHNOLOGY

SEMESTER EXAMINATION APRIL/MAY-2017 (2014-REGULATION)

Time : 3 Hours
VI SEMESTER

6.2 – FABRIC STRUCTURE-V

Max.Marks : 80

PART-A

10 x 2=20 Marks

- 1 What are the advantages of using healds in Extra Warp weaving?
- 2 What are the advantages of using plain cards in Extra Weft weaving?
- 3 Mention the different tension to be followed for beams used in Patent Satin weaving.
- 4 Mention the different tension to be followed for beams in Pique weaving.
- 5 Name different jacquard techniques used in weaving Damask fabric.
- 6 Define 'Reversible Tapestry'.
- 7 What are the conditions to be followed for forming the Terry pile?
- 8 Draw the principle of needle and hook setting in Inverted hook jacquard.
- 9 How do you differentiate Banaras saree from Kancheepuram saree?
- 10 How do you differentiate Paithani saree from Jamdhani saree?

PART-B

12 x 5=60 Marks

- 11 A) Sketch a motif suitable for Extra warp border weaving of Saree keeping main border in 1" width X 2" length and supporting border in 0.5" X 2" length. (4)
- B) Enlarge 0.5" X 0.5" of any part of the above motif in 24 X 24 and indicate its complete structure of Extra warp with 1 Ground and 1 Figuring order in 48 ends X 24. (8)

(Or)

- C) What are the differences between the loom techniques used for weaving Figured Extra Warp and Extra Weft? (4 points) (4)
- D) Explain the loom technique and drafting order used for weaving combined Figured Extra (8)
- 12 A) Sketch the jacquard loom used for weaving Figured Patent Satin. (4)
- B) Taking a guide graph in 16 X 12, indicate the complete weave structure of Figured Patent Satin in 48 X 48. (8)

(Or)

- C) Sketch the jacquard loom arrangement used for weaving Figured Pique. (4)
- D) Taking a guide graph in 16 X 12, indicate the complete structure of Figured Pique in 48 X 48. (8)

P.T.O.

- 13 A) What are the different jacquards weaving techniques used for Damask Fabric? (4)
B) Taking a guide graph in 16 X 16, indicate the complete structure of Damask in 48 X 48 woven using 3 eyed decked mail and 3 picks per card. (8)

(Or)

- C) Sketch the jacquard loom arrangement used for weaving Tapestry structure. (4)
D) Draw the design and interlacing diagram of 3 weaves of 3 picks Reversible Weft Tapestry. (8)
- 14 A) What are the advantages of using Inverted hook jacquard for weaving Figured Terry? (4)
B) Taking a guide graph in 12 X 16, indicate the complete structure of 3 picks Figured Terry in 48 X 48. (8)

(Or)

- C) Sketch the jacquard loom arrangement used for weaving Figured Terry fabric. (4)
D) Taking a guide graph in 12 X 12, indicate the complete structure of 4 picks Figured Terry in 48 X 48. (8)
- 15 A) Mention Count, Threads per inch, Dimension and weaves of traditional Saree woven in your region. (4)
B) Write down salient features of Banaras Saree (or) Kancheepuram Saree. (8)
- (Or)
- C) Mention Count, Threads per inch, Dimension and weave of shirting or dhoties. (4)
D) Write down eight salient features of Paithani Saree (or) Jamdhani Saree. (8)

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DIPLOMA IN HANDLOOM AND TEXTILE TECHNOLOGY

ANNUAL EXAMINATION - April / May - 2018

(Regulation 2014)

Year / Semester: 6th Semester

Time: 3 Hours

Subject Code & Name: 6.2 Fabric Structure – V

Max. Marks: 80

PART – A

(2 X 10 = 20)

Answer all the questions within two to three sentences.

- 1) Define the structure of Extra Weft.
- 2) Name two figured fabrics produced using jacquard with healds.
- 3) What is the tension variation maintained between ground and stitching warp while weaving patent satin.
- 4) Name the different series of warp and weft used in 4 picks per stitch Fast Back figured piques structure.
- 5) What is True Damask?
- 6) Calculate the total ends per repeat if a 240 hooks jacquard is built with 2 and 3 ends decked harness mails alternately.
- 7) What is the meaning of loose picks and fast picks in Terry weave?
- 8) How is the punch card divided when it is used for the jacquard built in sectional harness tie?
- 9) Name any two traditional yarn Tie-Dye fabrics of our country.
- 10) Name the weft interlacing followed in Jamdhani and Paithani weaving.

PART-B

Answer all the questions in detail.

11. A) What are the conditions to be followed while giving binding marks for Extra warp and Extra Weft figuring. (4)
 - B) Explain the working principle of two jacquards setup in a loom, one for Extra Warp and another for Extra Weft weaving. (8)
- OR**
- C) What are the advantages of using healds alongwith jacquard? (4)
 - D) Sketch a part of jacquard motif in 24 x 24 and develop its complete Extra Weft graph with suitable binding marks in 24 x 48 using 1 ground and 1 figuring weft ratio. (8)

12. A) Explain the structure of 4 picks per stitch Fast back structure used in figured pique. (4)
B) Taking ground and figure weave for Patent Satin, explain the operation of healds and working comber board for weaving figured Patent Satin. (8)

OR

- C) Explain the principle and use of working comber board. (4)
D) Develop the complete structure of a 4 picks per stitch Fast back figured pique on 48 x 48 from a basic figure graph on 16 x 12. (8)
13. A) Differentiate Traditional Tapestry and Contemporary Tapestry (4 points). (4)
B) Draw the thread interlacing diagram for 3 weaves of 3 picks Weft Tapestry. (8)

OR

- C) Brief about the four different methods of weaving Damask fabric. (4)
D) Develop the complete structure of 8 thread Damask fabric on 48 x 48 from the basic graph on 16 x 16 woven using 3 ends decked mail dye pressure harness. (8)
14. A) Draw the Sectional Tie-Sectional Draft system for weaving figured Terry. (4)
B) With a neat sketch explain the working principle of Inverted hook jacquard for weaving figured Terry. (8)

OR

- C) List the difference between Sectional Tie – Sectional Draft and Straight Tie – Sectional Draft followed for weaving figured terry. (4)
D) Develop the complete structure of a figured Terry fabric on 48 x 48 from the basic graph on 12 x 12 with 4 pick terry, forming pile on both the sides of fabric. (8)
15. A) List the basic quality particulars of a bed sheet produced on handloom. (4)
B) Explain the salient features of any 4 different Traditional fabrics of North-East States of our country. (8)

OR

- C) List the quality particulars of a Cotton handloom saree. (4)
D) Explain the salient features of any 4 different Traditional fabrics of Southern States of our country. (8)

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DIPLOMA IN HANDLOOM AND TEXTILE TECHNOLOGY

ANNUAL EXAMINATION - April / May - 2018

(Regulation 2011)

Year / Semester: 6th Semester

Time: 3 Hours

Subject Code & Name: 6.2 Fabric Structure – V

Max. Marks: 80

PART – A

(2 X 10 = 20)

Answer all the questions within two to three sentences.

- 1) Name the two special methods of weaving Figured Terry.
- 2) Indicate 4 colour combinations of Figured Double cloth using 2 different colours in warp and weft.
- 3) How do you place 4 colours to produce reversible Weft Tapestry?
- 4) Draw the interchanging weft interlacing diagram of 2 picks Weft Tapestry.
- 5) Define the structure of Extra Weft?
- 6) What is 'Planting in Extra Warp figuring'?
- 7) Name any two traditional yarn Tie-Dye fabrics of our country.
- 8) Draw the weft interlacing followed in Jamdhani and Paithani weaving.
- 9) Write the formula for calculating Crimp percentage.
- 10) What is the difference between GSY and GSM?

PART-B

Answer all the Questions in Detail

- 11 A) Illustrate the weaves of 3 picks and 4 picks Terry weaves to produce pile on single side and both sides of fabric. (4)
 - B) In Tabular form, give the punching procedure followed for 2 colour figured interchanging double cloth using Sectional Tie – Sectional Draft method and indicate the same in punch card diagram. (8)
- (OR)
- C) Differentiate Sectional Tie – Sectional Draft and Straight Tie – Sectional Draft. (4)
 - D) Develop the complete structure of a figured terry fabric on 48 X 48 from the basic graph on 12 X 12 with 4 pick terry forming pile on both the sides of cloth. (8)

12 A) Define Repp stitched Tapestries. (4)

B) Sketch the jacquard loom setup with healds and drafting diagram to weave figured Weft Tapestry. (8)

(OR)

C) Differentiate Reversible and Non- Reversible Weft Tapestry. (4)

D) Giving the 3 weaves of 3 picks Weft Tapestry, draw the corresponding weft thread interchanging diagram. (8)

13 A) How do you set the loom for weaving a fabric with both Extra Warp and Extra Weft designing. (4)

B) With illustrative diagram, explain the different styles of Extra Weft figuring technique. (8)

(OR)

C) Differentiate Extra Warp and Extra Weft figuring (4 points). (4)

D) With suitable graph, explain any one method of the Extra Warp figuring technique. (8)

14 A) List the basic quality particulars of a bed sheet produced on handloom. (4)

B) Explain the salient features of any 4 different Traditional fabrics of Northern States of our country. (8)

(OR)

C) List the basic quality particulars of a cotton handloom saree. (4)

D) Explain the salient features of any 4 different Traditional fabrics of Southern States of our country. (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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BARGARH/GUWAHATI/FULIA/JODHPUR/SALEM/VARANASI/CHAMPA/KANNUR/KHTI-GADAG/SPKM IIHT VENKATAGIRI
DIPLOMA IN HANDLOOM AND TEXTILE TECHNOLOGY (Regulation – 2014)
SEMESTER (BACK PAPER) EXAMINATION-NOV./DEC.- 2018

Subject Code & Name: 6.2 FABRIC STRUCTURE – V

Max.Marks:80

Year / Semester: VI SEMESTER

Time: 3 Hours

PART-A

I. Answer all questions in ONE or TWO sentences

[10x2=20]

- 1 Name any two style of extra weft figuring technique.
- 2 Name two extra warp fabrics.
- 3 What is the interlacement of coarse ends while inserting coarse pick in ground for patent satin.
- 4 Name the series of ends and picks used in figured pique.
- 5 Define Decked mail eye.
- 6 Name two traditional tapestry.
- 7 Draw three pick reversible terry weave
- 8 Define non reversible terry weave.
- 9 Name the origin of Patola.
- 10 Name two traditional silk sarees.

PART-B

Answer the following questions in detail

II. a. Differentiate between extra warp and extra weft.

[4]

d. Taking 20 X 20 guide graph, indicate the complete structure of extra warp graph design on 40 X 20 with 1 ground: 1 extra warp ratio.

[8]

(OR)

c. Write advantage of using healds along with jacquard for preparing extra warp design.

[4]

d. Taking 20 X 20 guide graph, indicate the complete structure of extra weft graph design on 20 X 40 with 1 ground: 1 extra weft ratio.

[8]

III. a. Make two weaves of patent satin.

[4]

b. Taking a guide graph 10 X 8, mark the complete structure of figured pique.

[8]

(OR)

c. Make two weaves of figured pique.

[4]

d. Taking a guide graph 10 X 8, mark the complete structure of patent satin.

[8]

- IV. a. Draw the diagram of pressure harness set with 2 & 3 decked mail & 5 special heald shaft. [4]
- b. Taking 16 X 15 guide graph, indicate the complete weave structure of 5 threads damask in 40 X 45 woven using pressure harness of 2 and 3 decked mail eye with 5 healds and 3 picks per card. [8]

(OR)

- c. Indicate the three weaves of reversible 3 picks weft tapestry. [4]
- d. Indicate the three weaves of non reversible 3 picks weft tapestry and draw the interlacement diagram.. [8]
- V. a. Indicate the drafting diagram of loom set with jacquard and healds with sectional tie and sectional draft [4]
- b. Explain with suitable diagram for inverted hook jacquard. [8]

(OR)

- c. Write the punching procedure for terry by using inverted hook jacquard. [4]
- d. Using 12 X 12 guide graph, mark the complete structure of figured terry on 48 X 36 . [8]
- VI. a. Quality particulars for Cotton saree and Dhoti [4]
- b. Explain briefly Jamdhani and Pithani [8]

(OR)

- c. Quality particulars for Dress material and Home furnishing [4]
- b. Explain briefly Kanchipuram saree and Banaras Brocades [8]

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DIPLOMA IN HANDLOOM & TEXTILE TECHNOLOGY
SEMESTER EXAMINATION (Regular / Back paper)- APRIL/ MAY 2019

Subject Code & Name: **6.2 FABRIC STRUCTURE-V**
Year / Semester: VI SEMESTER

Max.Marks:80
Time: 3 Hours

PART-A

I. Answer all questions in ONE or TWO sentences (10x2=20)

- 1 What is the advantage of using healds with jacquard for producing extra warp design.
- 2 Name two extra warp fabrics.
- 3 What is the interlacement of coarse ends while inserting coarse pick in ground for producing patent satin.
- 4 What are the different jacquard techniques used for weaving patent satin.
- 5 Calculate the total ends per repeat if a 200 hook jacquard is build with pressure harness set 2 & 3 decked harness mail eye alternately with 5 heald shaft.
- 6 How do you place 04 colours to produce reversible weft tapestry
- 7 Name any 02 jacquard setup used in damask.
- 8 How is the punch card divided when it is used for the sectional tie sectional draft in figured 3 pick terry weave
- 9 Name the place of origin of Jamdhani and Himroo.
- 10 Name the techniques used for weaving traditional kancheepuram saree.

PART-B

Answer the following questions in detail (4+8) x 5=60

- 11 a. Draw anyone harness building & heald arrangements used for weaving extra weft design in handloom saree. [4]
- b. Draw a motif of 1" X 1" size and enlarge the motif on 16 X 16, give suitable binding marks and mark the complete structure of extra weft graph design on 16 X 32 with 1 ground: 1 extra weft ratio. [8]

(OR)

- c. Draw harness building & heald arrangement used for weaving combination of extra warp and extra weft design in handloom sarees. [4]
- d. Taking 20 X 40 guide graph, give suitable binding marks and mark the complete structure of extra warp graph design on 40 X 40 with 1 ground: 1 extra warp ratio. [8]
- 12 a. Draw the harness building & heald arrangement used for weaving patent satin. [4]
- b. Taking a guide graph 12 X 10, mark the complete structure of figured pique on 36 X 40 with 4 picks/stitch using 2 G: 2 W ratio. [8]

(OR)

- c. Draw the harness building & heald arrangement used for weaving figured pique. [4]
- d. Taking a guide graph 12 X 10, mark the complete structure of patent satin on 36 X 40. [8]
- 13 a. Indicate the four weaves of reversible 4 picks weft tapestry. [4]
- b. Draw the diagram of pressure harness set with 2&3 decked mail & 5 special heald shaft-drafting, drafting side view and operation of harness and heald shaft. [8]

(OR)

- c. Tabulate the punching procedure for 3 pick reversible weft tapestry. [4]
- d. Taking 5 X 15 guide graph, mark the complete weave structure of 5 threads damask in 45 X 45 woven using pressure harness of 3 decked mail eye with 5 healds and 3 picks per card. [8]
- 14 a. Construct 3 pick terry to form pile on single side and both sides of the fabric. [4]
- b. Taking a small graph and indicate the punching procedure of 3 pick figured terry for 3 card by using inverted hook jacquard method. [8]
- (OR)
- c. Draw the drafting diagram of a loom set with jacquard and healds with sectional tie and sectional draft for producing figured terry. [4]
- d. Using 12 X 12 guide graph, mark the complete structure of 4 pick figured terry on [8]
- 15 a. Sketch a motif suitable for extra warp border of aving of sari keeping main border of 2" width X 3" length and supporting border of 1" width X 3" length. [4]
- b. Explain the production techniques of pithani & jamdhani saree with neat sketches. [8]

(OR)

- c. Name the place of origin of the following fabrics Chanderi, Kota doria, Riha and Mekhala. [4]
- d. Write down necessary weaving particulars (warp count, weft count, EPI, PPI, Reed count, Length and Width) for the following items Double bed sheet, cotton saree and cotton shirting. [8]

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DIPLOMA IN HANDLOOM & TEXTILE TECHNOLOGY (REGULATION - 2014)

ANNUAL / SEMESTER EXAMINATION – NOV/DEC -2019

Year/Semester: VI Semester Back Paper

Time: 3Hours

Subject Code & Name: 6.2 FABRIC STRUCTURE -V

Max. Marks: 80

PART – A

(10 x 2 =20)

Answer all questions in ONE or TWO sentences.

1. Name any two style of Extra Weft figuring technique.
2. What are the advantages of using Healds in Extra Warp weaving?
3. Name ends and picks used in Patent Satin design.
4. Mention the different tension to be followed for beams in pique weaving.
5. Define reversible Tapestry.
6. What is true Damask?
7. Define reversible Terry Piles.
8. What is the meaning of loose picks and fast picks in Terry Weave?
9. Name the place of origin of Jamdhani and Himroo saree.
10. How do you differentiate Banaras Sarees from Kancheepuram Saree?

PART – B

11. (A) Sketch a motif suitable for extra warp border weaving of saree keeping main border in 1" width x 2" length and supporting border in 0.5" x 2" length, (4)
(B) Explain the loom technique and drafting order used for weaving combined figured extra. (8)
(OR)
(C) Draw any one Harness building & heald arrangements used for weaving extra weft design in Handloom saree. (4)
(D) Taking 20 x40 guide graph, give suitable binding marks and make the complete structure of extra warp graph design on 40 x40 with ground :1 extra warp ratio. (8)
12. (A) Mark two weaves of Patent Satin. (4)
(B) Taking a guide graph 10 x 8 mark the complete structure of figured pique. (8)
(OR)
(C) Explain the structure of 4 picks per stitch fast back structure used in figured pique. (4)
(D) Develop the complete structure of a 4 picks per stitch Fast back figured pique on 48x48 from a basic figure graph on 16 x 12. (8)

13. (A) Differentiate traditional tapestry and contemporary tapestry (4 Points). (4)
(B) Indicate the three weaves of non reversible 3 picks weft tapestry and draw the interlacement diagram. (8)

(OR)

- (C) Indicate the three weaves of reversible 3 picks weft tapestry. (4)
(D) Draw the design and interlacement diagram of four weaves of 4 pick non reversible weft tapestry. (8)
14. (A) Sketch the Jacquard loom arrangement used for weaving terry pile for straight tie sectional draft with heald shaft. (4)
(B) Explain briefly inverted hook Jacquard with suitable diagram. (8)

(OR)

- (C) Write the punching procedure for terry by using inverted hook Jacquard. (4)
(D) Using 12x12 guide graph mark the complete structure of figured terry on 48 x 36. (8)
15. (A) Mention count, threads per inch, dimensions and weave of shirting or dhóties. (4)
(B) Write down eight salient features of Paithani saree. (8)

(OR)

- (C) List the basic quality particulars of a bed sheet produced on Handloom. (4)
(D) Explain the salient features of any 4 different Traditional Fabrics of Southern States or North Eastern States of our country. (8)
