Register Number:……..

KUMARAGURU
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**B.TECH DEGREE EXAMINATIONS: MAY 2017**

(Regulation 2014)

Sixth Semester

**TEXTILE TECHNOLOGY**

U14TXT603 : Garment Manufacturing Technology

**COURSE OUTCOMES**

**CO1:** Develop pattern making, grading and marker making for Kid's, Baby's, Men's and Women's wear

**CO2:** Discuss the requirements and methods of marker planning and cutting

**CO3:** Describe the different types of stitches & seams and sewing machine

**CO4:** Compare different production systems used in garment industry

**CO5:** Explain different types of pressing and packing methods

**Time: Three Hours** **Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. Matching type item with multiple choice code CO2 [$K_4$]

| List I | List II |
|---|---|
| A. Plasma cutting | i. Linear patterns |
| B. Band knife cutting | ii. Thermo plastic cutting |
| C. Water jet cutting | iii. 1064 nm |
| D. Laser cutting | iv. High velocity ionized gas |

| | A | B | C | D |
|---|---|---|---|---|
| a) | ii | i | iii | iv |
| b) | iii | iv | ii | i |
| c) | ii | iv | iii | i |
| d) | iv | i | ii | iii |

2. Which of the following will influence on the consumption of sewing thread? CO3 [$K_4$]

i) Stitch density ii) fabric weight iii) needle type iv) stitch tension

a) i, ii,& iii b) i, ii, & iv

c) i, iii,& iv d) ii, iii, & iv

3. The main advantages of Progressive Bundle system is_____ CO4 [$K_2$]

i) Continuous process ii) Utilize special machines well iii) Less Throughput Time iv) Lower WIP

a) i & ii b) ii & iii

c) iii & iv d) iv & i

4. Identify the stitch class which is used for joining sleeves with bodice of a T shirt CO3 [$K_4$]

a) Class 100 series b) Class 300 series

c) Class 400 series d) Class 500 series

5. Assertion (A) : Antistatic papers are used while cutting synthetic fabrics CO2 [$K_5$]

Reason (R): Fusing and sticking of fabric layers are observed while cutting synthetic fabrics.

a) Both A and R are Individually true and R is the correct explanation of A

b) Both A and R are Individually true but R is not the correct explanation of A

c) A is true but R is false

d) A is false but R is true

6. Match the following with reference to draping CO1 [$K_2$]

| | |
|---|---|
| 1. Front of garment | a. Both the sides |
| 2. Back of garment | b. One side |
| 3. Symmetric design | c. Right of the dress form |
| 4. Bias designs | d. Left of the dress form |

a) 1-a, 2-c, 3-d, 4-b b) 1-b, 2-c, 3-d, 4-a

c) 1-d, 2-a, 3-c, 4-b d) 1-c, 2-d, 3-b, 4-a

7. Arrange the types of fasteners based on their order of preference in women's wear CO5 [$K_4$]

1. Hook and eyes
2. Shank button
3. Velcro
4. Zippers

a) 2-3-4-1 b) 1-3-2-4

c) 3-4-2-1 d) 4-1-2-3

8. Which of the following statements are true CO1 [$K_5$]

a) The fabric has to be blocked by pulling the edges to straighten grain

b) The basic bodice front pattern includes waist line dart and centre front dart.

c) Standard measurement charts are used for mass production of garments.

a) a and b b) b and c

c) a and c d) a, b and c

9. Assertion (A): Unit Production System is best suited for producing designer garments. CO4 [$K_5$]
Reason (R): Unit Production System is a synchronized, intermittent system giving high efficiency

a) Both A and R are Individually true and R is the correct explanation of A
b) Both A and R are Individually true but R is not the correct explanation of A
c) A is true but R is false
d) A is false but R is true

10. The material used for only reinforcing purpose in the garment is called as _____ CO5 [$K_1$]

a) Lining material
b) Inter Lining material
c) Interfacing material
d) Zippers

**PART B (10 x 2 = 20 Marks)**

**(Answer not more than 40 words)**

| | | | |
|---|---|---|---|
| 11. | Differentiate between drafting and draping methods of pattern making. | CO1 | [$K_2$] |
| 12. | What is seam allowance and ease allowance? Specify these allowances at different parts of the garment. | CO1 | [$K_2$] |
| 13. | State the special precautions to be taken during spreading and cutting of knitted fabrics. | CO2 | [$K_2$] |
| 14. | Define Marker efficiency and list out any four factors that affect marker efficiency | CO2 | [$K_2$] |
| 15. | Suggest and justify few sewing machine feeding systems suitable for delicate and slippery fabrics | CO3 | [$K_2$] |
| 16. | Furnish the classification of stitches and seams. | CO3 | [$K_1$] |
| 17. | Enlist merits and demerits of modular production system. | CO4 | [$K_2$] |
| 18. | Differentiate between product and process based plant lay outs | CO4 | [$K_2$] |
| 19. | State the advantages and applications of form pressing equipments | CO5 | [$K_2$] |
| 20. | State the quality requirements of adhesives used in fusible interlinings and also list the names of few adhesives | CO5 | [$K_2$] |

**Answer any FIVE Questions:-**

**PART C (5 x 14 = 70 Marks)**

**(Answer not more than 300 words)**

**Q.No. 21 is Compulsory**

| | | | | |
|---|---|---|---|---|
| 21. | i) Develop pattern for Men's Shirt and give the step by step procedure. | (10) | CO1 | [$K_3$] |
| | ii) Illustrate and explain 8 head theory | (4) | | [$K_2$] |

| | | | | |
|---|---|---|---|---|
| 22. | i) State the advantages and limitations of straight knife, round knife and band knife cutting machines. | (6) | CO2 | [$K_4$] |
| | ii) With neat sketch explain the working principle of Band knife cutting machine and also state their technical specifications | (8) | | [$K_2$] |
| 23. | i) Identify different types of stitches and seams used in a shirt and designate them based on BS standards | (6) | CO3 | [$K_4$] |
| | ii) With neat sketch explain the parts and functions of a single needle lock stitch machine. | (8) | | [$K_2$] |
| 24. | Discuss in detail on machine selection, process sequence and operation breakdown for execution of ladies night dress. | | CO4 | [$K_5$] |
| 25. | Explain the purpose of pressing and discuss the salient features of different types of pressing equipments | | CO5 | [$K_2$] |
| 26. | With neat sketch explain the working principle of computerized spreading and cutting machine and also state their technical specifications | | CO2 | [$K_2$] |
| 27. | With neat sketch explain the different types of feed mechanism used in industrial sewing machines and state their technical importance | | CO3 | [$K_2$] |

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