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Reg.No:

Name:

**B.Sc. DEGREE (C.B.C.S.S) EXAMINATION, NOVEMBER -2014
APPAREL AND FASHION DESIGN – FIRST SEMESTER
COMPLEMENTARY COURSE
FT1FS – FABRIC SCIENCE**

Time: 3 Hours

Maximum: 80 Marks

Part A

(Short answer questions)

Answer **all** questions. Each question carries 1 mark

1. Define Cotton count.
2. Mention the advantages of open –end spinning.
3. Name the needle used in warp knitting
4. Name the novelty weave which uses extra weft structures.
5. Explain S twist and Z twist.
6. What is union dyeing?
7. Explain wet spinning.
8. What is the process of yarn tie and dye known as?
9. What is cross dyeing?
10. Why azoic dyes are called ice colours?

(10x1 = 10)

Part B

(Short answer questions)

Answer any **eight** questions. Each question carries 2 marks.

11. Explain satin weave with a weave plot on 5 shafts.
12. Explain the microscopic structure of cotton fibre.
13. Discuss the effects of mercerization on cotton.
14. Explain the motions of a loom.
15. Discuss the types of direct printing.

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16. What is fabric count?
17. Explain double cloth weave.
18. Describe chenille yarns.
19. What is singeing?
20. Write a note on transfer printing.
21. Discuss any two modern spinning methods.
22. What is jig dyeing? **(8x2 = 16)**

Part C

(Short essay questions)

Answer any **six** questions. Each question carries 4 marks.

23. Describe the manufacture of viscose rayon.
24. Explain resist printing.
25. Discuss the properties of wool fibre.
26. Classify yarns.
27. Discuss durable press finish
28. Explain any four novelty weaves.
29. Write a note on twill weave.
30. Explain the dyeing mechanism with direct dyes.
31. Discuss stages of dyeing. **(6x4 = 24)**

Part D

(Essay type questions)

Answer any **two** questions. Each question carries 15 marks

32. Enumerate the methods of dyeing.
33. Explain in detail basic weaves with the help of weave plots.
34. Discuss ring spinning.
35. Explain the different styles of printing. **(2x15 = 30)**