

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]
(2066)

16064(J)

June-16

B. Tech 4th Semester Examination

Fabric Manufacture-II (NS)

TE-224

Time : 3 Hours

Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all selecting one question from each section A, B, C & D of paper and all the subparts of Section E.

SECTION - A

1. (a) What is Bumping? When it occurs? Derive the cloth fell equation under steady state. (10)
(b) With a suitable diagram, explain the working of semi-positive let-off motion. Mention its advantages and disadvantages. (10)
2. (a) How a 5-wheel take up motion work? Calculate its dividend. Mention difference between a 7-wheel and 5-wheel take up motion. How pick density is controlled on 5-wheel take-up motion? (14)
(b) Discuss the development occur in take-up motions. (6)

SECTION - B

3. (a) What is a warp stop motion? Explain the function and working mechanism of a electrical warp stop motion with suitable diagrams. (12)

2

16064

- (b) Discuss advantages and disadvantages of different type of warp stop motions. (8)
4. (a) What is a weft stop motion? Explain the function and working mechanism of a centre weft fork mechanism with suitable diagrams. (14)
(b) Discuss the difference between a side weft fork and centre weft fork mechanism. (6)

SECTION - C

5. (a) What is the difference between weft mixing and weft patterning? Explain the working of 4x1 box motion with suitable diagram. (10)
(b) Mention various feelers along with their advantages and disadvantages. (10)
6. (a) Explain the working of 2x1 box motion. Discuss its advantage and disadvantage over 4x1 box motion. (10)
(b) Explain the working of pirn changing mechanism with suitable diagram. Mention its limitations. (10)

SECTION - D

7. (a) Define single lift and double lift principle in jacquard. Explain the working of a single lift single cylinder jacquard. (12)
(b) Give a comparative assessment of tappet, jacquard and dobby shedding. (8)
8. (a) Explain the working mechanism of KEIGHLEY dobby with suitable diagrams. (12)
(b) Discuss in detail the different types of shed along with their advantages and disadvantages. (8)

[P.T.O.]

SECTION - E

9. (i) Mention the function of a reed.
- (ii) Mention dividend value of 5-wheel and 7-wheel take-up motion.
- (iii) What is a T- lever in dobby shedding?
- (iv) Name different auxiliary motions on a loom.
- (v) Mention the function of comber board.
- (vi) Mention different parts of a harness.
- (vii) When a weft stop motion stop the loom?
- (viii) Define a right hand and left hand dobby.
- (ix) What do you mean by card lacing?
- (x) Why a box motion is required on a loom? (2×10=20)