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Fotal : n. of P (p.(s): 3 4日 - 東京 (1975) 東京 - 東京 (1975) - 東京 - 東京 - 大学学学学学会(東京会社) BT-3/D13: 8357 TT-207-A Fabric Manufacture-I (New) Time: 3 Hrs.) [Max. Marks: 100 Note: Section-A contains one compulsory question. Attempt one question from each of the remaining four sections (B, C, D, and E). All Questions carry equal marks. 20x1 1 Section-A Choose the most appropriate answer from the given options:-Autoconer 338 is a-(a) Precision winding machine ii) Random winding machine iii) Combination of i) and ii) iv) None of i) and ii). In Autoconer 238 -**(b)** i) Friction drum is used Knotter is used iii) Both of i) and ii) used iv) None of i) and ii) used Function of a slub catcher is to (c) Introduce slub in yarn to produce special effect. ii) Remove weak place in yarn iii) Introduce neps in yarn to produce special effect. iv) None of the above Increase the speed of a sizing machine lead to-(d) i) increase impregnation time ii) decrease squeezing pressure iii) decrease in squeezing time iv) increase in squeezing time Multi-cylinder sizing machine is preferred over slasher sizing (e) machine due to more productivity ii) good quality of sized yarn iii) easy maintenance iv) All the above. **(I)** Pirn winding Rotary traverse machine Separate traverse machine iii) Both Rotary traverse and Separate traverse is possible iv) None of the above Sizing is done on (g) i) Single yarn to be use for knitting ii) Double yarn to be use in warp iii) Single yarn to be use for weft iv) None of the above Pirn winding machine may have a (h) i) Drop wire to detect yarn break Bunch winding mechanism iii) Random winding Drum iv) None of the above. P.T.O.

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- (i) Photo electric scorer type of your char second
  - Dimaeter of yarn.
  - ii) Mass of yarn
  - iii) Tension of yarn
  - iv) Both of the option i) and ii)
- (j) Knotting is preferred to splicing for
  - Knitted yarn
  - Warp double yarn
  - iii) Warp single yarn
  - iv) West yarn
- (k) The objective of pre clearer in Autoconer is to
  - i) Remove slub
  - ii) Remove crimp
  - iii) Remove twist variation
  - iv) None of the above
- Pirn winging is required for
  - Projectile weaving
  - ii) Rapier weaving
  - iii) Airjet weaving
  - iv) None of the above
- (m) TFO means
  - Two for one twister
  - ii) Turn fast operation
  - iii) Three full operation
  - iv) Ten-for-One machine
- (b) Final product of warping machine is
  - i) Warper's beam
  - ii) Warper's drum
  - iii) Weaver's beam
  - iv) Weaver's drum
- (o) TFO is a
  - Winding machine
  - Doubling machine
  - Pirn winding machine

### Write your answers in one or two sentences.

- (p) What the function of a cheese winding?
- (q) What is the function of a knotter?
- (r) What are the disadvantages of direct warping?
- (s) What is relation of input tension to output tension for a disc type tensioner?
- (t) What is function of a spicer?

#### Section-B

What are the modern automatic machines uses now a day in Textile industry? Draw the flow of material through one of that machine and explain the different parts and their functions of that machine with the help of neat and clean diagram of different parts.

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3	Discuss the function of yarn tensioner, yarn clearer and unwinding accelerator. How the patterning in Drum winding machine can be avoided? Explain with the help of a suitable example.  Section-C	20
4(a)	Why direct warping is not preferred for complex colour design?  What are the differences between direct and sectional warping?  Draw the flow of material on these machines along with their	12
(b)	advantages and disadvantages.  What are the different types of creel available for warping discuss in details.	8
5	Calculates the running efficiency and production in kg/hours for a Beam warping machine. Assume necessary data yourself.	20
6	Section-D  What are the objectives of sizing? With the help of a suitable diagram explain the different parts and their functions of a conventional slasher sizing machine	20
7	Draw a suitable diagram of modern size box and explain different parts and their functions. What is the function of a sizing adhesive? Discuss about the different types of sizing adhesives in brief	10 10
	Section-E	
8	What are the different types of drafting used in drawing-in department? With the help of graphical representation, show the various types of drafts applicable in drawing in the warp threads.	20
9	With the help of suitable diagram discuss about different types of drop wires and heald wires with their advantage and disadvantage and use	20

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