KUMARAGURU
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M.TECH DEGREE EXAMINATIONS: DEC 2015

(Regulation 2014)

Third Semester

TEXTILE TECHNOLOGY

P14TXTS03: Production Management in Textile Industry

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

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. MPI related to   CO1 [K1]

   a) Mill productivity index   b) Machine productivity index

   c) Machine production information   d) Mill production information

2. EOQ means ------   CO1 [K1]

   a) Economic Order Quantity   b) Economic Optimized Quantity

   c) Economic Order Quality   d) Economic Output Quantity

3. Spinning mill lay out is basesd on ----- layout   CO1 [K1]

   a) process   b) line

   c) product   d) Process or product

4. Matching the following   CO1 [K1]

List I	List II
A. VED	i. Hard waste
B. Yarn waste	ii. Yarn quality
C. SCI	iii. Power cost
D. UKG	iv. Inventory system

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

5. Assertion (A): Neps in the carded web is due to bad wire condition of cylinder of   CO1 [K1]

carding machine.

Reason (R): Grinding schedule is not followed promptly

a) **A** and **R** is true
b) **A** is wrong and **R** is True
c) **A** is true and **R** is wrong
d) **A** and **R** is wrong

6. Berkolosing of rubber cots is done to   CO1   [K1]

a) Avoid roller lapping
b) Reduce roller slip
c) Increase parallelization
d) Increase the smoothness of roller

7. Traveller in ring frame is changed once in ----- days   CO1   [K1]

a) 3
b) 9
c) 7
d) 5

8. Adding up of oil to the existing oil in the spindle bolster is termed as -----   CO1   [K1]

a) Spindle oiling
b) Spindle oil replenishing
c) Spindle conditioning
d) Spindle oil topping

9. SEITON in 5s means   CO1   [K1]

a) Sweep
b) Cleanliness
c) Arranging
d) Discipline

10. Buffing is done to   CO1   [K1]

1. Top roller cots

2. Avoid roller lapping

3. Increase the smoothness of cots

4. Reduce the shore hardness of cots

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

PART B (10 x 2 = 20 Marks)

11. What is EXIM policy?   CO1   [K1]
12. Define EOQ.   CO1   [K1]
13. What is product layout? Give example.   CO2   [K2]
14. What is Process layout? Give example.   CO2   [K2]
15. What is preventive maintenance?   CO1   [K1]
16. What is restorative maintenance?   CO1   [K1]
17. What do you mean by value engineering?   CO1   [K1]
18. Define Material Requirement Planning.   CO1   [K1]
19. What is ERP?   CO1   [K1]

20. Define MIS.	CO1	[K1]

PART C (10 x 5 = 50 Marks)

21. Discuss about the acceptance sampling in garment unit.	CO3	[K3]
22. Explain the vendor rating system adopted in spinning mill.	CO3	[K3]
23. Discuss about material handling system in spinning mill.	CO3	[K3]
24. Explain about machine assignment and allocation of job in a spinning mill.	CO4	[K3]
25. Explain about total quality control procedures followed in a weaving mill.	CO3	[K4]
26. Explain the productivity and improvement techniques adopted in spinning mill.	CO3	[K3]
27. Explain the industrial buyer behaviour model with respect to garment industry.	CO3	[K3]
28. Explain how you evaluate the job of a winder in the cone winding department of a spinning mill.	CO4	[K4]
29. Explain the role of information system in decision making in a garment unit.	CO2	[K3]
30. Explain the product mix concepts and its application in spinning mill.	CO2	[K3]

PART D (2 x 10 = 20 Marks)

31. Illustrate with necessary calculations the machinery required for producing 40's N_e combed yarn (meant for knitting) for a spinning mill which is planning to produce 12,000 kgs of yarn/day. (Assume the relevant data of the process from blow room to spinning)	CO3	[K4]
32. Explain about implementation of ISO 9000 in a spinning mill.	CO3	[K4]

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