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Roll No.:....

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B. E. (Eighth Semester) Examination, 2020

(Old Scheme)

(Mech., Mechatronics Engg. Branch)

PRODUCTION MANAGEMENT

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Part (a) of each question is compulsory.

Attempt any two parts from (b), (c) and (d).

Unit-I

- 1. (a) What is Production Management?
 - (b) What are the functions of Production Management? 7

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(c) What are product design and development process? 7

(d) What is calculation procedure of Break Even Point? 7

Unit-II

2. (a) Define sales forecasting.

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- (b) What are seasonal variation? Why they are so important for sales forecasting?
- (c) Find the trend by least square method for data as follows:

Year	1975	1976	1977	1978	1979	1980	1981
Demand in	E-100	-	-				
(₹) 1,000	85	75	80	72	65	60	55

Also estimate the demand for 1984.

(d) The sales of a news paper in first 7 months of 1998 are as follows:

Month Jan. Feb. Mar. Apr. May Jun. Jul. Sales 44329 44670 48670 45784 47676 55730 54968

By using regression analysis techniques.

7

- (i) Establish the equation of straight line
- (ii) Calculate trend equation
- (iii) Project the forecast for the month of August, 1998

Unit-III

3. (a) Define material handling.

2

(b) What are the factor to be considered to decide whether to "Make or Buy" a component?

7

(c) Explain in brief the selection criteria for different type of material handling equipment.

7

(d) 5 jobs are performed first on Machines M1 and then machine M2 time in hours taken by each job on each machine is given below:

Jobs A B C D E
M1 5 1 9 3 10
M2 2 6 7 8 4

Determine the optimum sequence of job and minimum time elapsed.

7

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4. (a) What do you mean by Procurement?

2

(b) What are function of stores discuss the advantages of good store keeping?

7

(c) What is ABC analysis? Explain the steps involved in it.

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	(d) A manufacturer purchases items in lots of 800 units	
	which is a four month requirement. The cost per unit is ₹ 100 and the ordering cost is ₹ 120 per patch	
	order. The inventory carrying cost is estimated as 20% of the average inventory estimate:	7
	(i) Determine the annual variable cost managing	
	inventory records and local success (1914)	
	(ii) How much saving can be obtained from EQQ	
	des des purchases? pura fil amat 'La ment den prot	7
	Unit-V	
5.	(a) What is Quality?	2
	(b) State and illustrate difference between Inspection	
	and Quality Control.	7
	(c) What is acceptance sampling? Explain.	7
	(d) Write briefly on the construction of \overline{X} and \overline{R} charts	. 7
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	(ii) What the function of stores discuss the ultranages	
	of Book at healthing	
	te) What is odd analysis. Explain the steps are always	

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