EX/PRN/T/422/2019

B. Printing Engineering Examination, 2019

(4th Year, 2nd Semester)

INDUSTRIAL MANAGEMENT

Time: 3 hrs.

Full marks: 100.

(Attempt any five questions)

- 1.(a) What are te function of materials management? Explain any one of them. (8)
- (b) Name different methods of purchasing and explain" Hand to mouth purchasing" with it advantages and disadvantages. (6)
- (c) Give a typical organi sation structure of a material management. (6)
- 2. (a) Differentiate between C.P.M and P.E.R.T. (4)
- (b) An Engineering Project consists of six activities. The three time estimate in number of days for each activity are given below:

Activity	to	tm	tp 8 1 18 7	
1 - 2	2	5		
2 - 3	1	1		
3 - 5	0	6		
5 - 6	7	7		
1-4 3		3	-	
4-5	2	8	14	

(i)Calculate the values of expected time(te), standard deviation(ot),

Variance(Vt) for each activity;

(3)

(ii)Draw the network diagram and mark te on each activity;

(3)

(iii)Calculate EST and LFT and mark them on the network diagram;

(3+3)

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(iv)Calculate total slack for each activity;	(2)
(v) Identify the critical path and mark on the network diagram.	(2)
3. (a) Describe the "Importance of Maintenance" briefly. (6)	
(b) State the various functions of maintenance. (6)	
(c) Explain how preventive maintenance is better than corrective main	ntenance. (8)
4. (a) With the help of neat diagram explain the following terms: (i) order quantity; (ii) lead time;	
(iii) safety stock; (iv) Re-order point.	(10)
a three months requirements. The cost per unit is Rs.90 and the ord is Rs.180 per batch order. The inventory carrying cost is estimated 2 investment. Calculate: (i) What is the annual total cost of existing inventory policy? (ii) How much money can be saved from E.O.Q. purchased?	-
(ii)How much money can be saved from E.O.Q. purchased?	(6)
5. (a) Name any four major areas of Indian Industries.	(4)
(b) Describe in brief: (i) GATT (ii) W.T.O.	(8)
(c) Describe in brief "Globalization of Indian Industries".	(8)
6. (a) What is the importance of productivity? Mention various factors was affect productivity. (8)	vhich
(b) How will you measure productivity in: (i) manufacturing concerns; (ii) office work. (4)	estration (A.P.)
(c) How the productivity can increase? What are the reasons for Low-productivity. (8)	

7. (a) Define Marketing. Name the various functions of Marketing. (2+4)
(b) Explain the importance of Marketing in modern world. (7)
(c) Explain the role of Packaging in Marketing. (7)

8.(a) Name the various **function** of **management**. **Describe** any one of them **In brief**. (10)

(b) Name the elements of planning and define any four of them.

(10)

9(a) State the objectives of:

(i) Short term forecasting;

(ii)Long term forecasting.

(3+3)

(b) Describe "Exponential Smoothing" method of forecasting.

(6)

(c) The annual sales of a company are as given below:

Year	2015	2016	2017	2018	2019
Sales in Qty.	50,000	65,000	75,000	52,000	72,000

By the method of least square find the trend values for each of the five years.

Also estimate the production for the next three years.

(8)

10.(a) Differentiate between job production, batch production and continuous production.(8)

(b) The fixed cost for a year is **Rs.40,000**. The estimated sales are **Rs.1,00,000**. The variable cost per unit for the single product made is **Rs.2**. If each unit Sales at **Rs.10** and the number of units involved coincides with the expected Volume of the output, construct the break-even chart(on **graph paper**):

(iii) Determine B.E.P; (ii) Determine the profit at a turn over of Rs.80,000; (iii) Find the margine of safety; (iv) Measure the angle of incidence. (3X4)