Registration No :

Total Number of Pages : 02

IMBA
16IMN503

5th Semester Regular Examination 2019-20
OPERATIONAL MANAGEMENT-I
BRANCH : IMBA
Max Marks : 100
Time : 3 Hours
Q.CODE : HR241

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.
The figures in the right hand margin indicate marks.

Part- I

Q1	**Only Short Answer Type Questions (Answer All-10)**	(2 x 10)
a)	What do you mean by buffer stock?	
b)	What do you mean by VED? Give an example.	
c)	What do you mean by JIT?	
d)	What is mass production system? Give an example.	
e)	Define Operations Management.	
f)	What are the basic difference between production and productivity?	
g)	What are the components of time series analysis?	
h)	What is Delphi technique.	
i)	What do you mean by Kanban?	
j)	What is dependent and Independent inventory? Give an example.	

Part- II

Q2	**Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve)**	(6 x 8)
a)	What is inventory Management? What are the costs associated in Inventory management? Explain.	
b)	What are the factors affecting Inventory Management? Explain.	
c)	Briefly explain ABC analysis?	
d)	Explain the objectives and scope of Operations Management.	
e)	What are the techniques used to improve productivity? Explain.	
f)	Briefly explain different types production system, with giving advantages and disadvantages.	
g)	Briefly explain process technology life cycle.	
h)	What is JIT? Explain its uses.	
i)	Write short notes on KANBAN.	
j)	Briefly explain the characteristics of production and operation function	
k)	What is Time series? Explain its uses.	
l)	Explain the interrelationship between product design and process design.	

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

Q3 What is Product Life cycle? Briefly explain stages of product life cycle. **(16)**

Q4 How to measure Productivity? What are the factors affecting productivity? Explain. **(16)**

Q5 **a)** ABC operation has got a demand for particular part at 10000 units per year. The **(6)** cost per unit is Rs.2 and it costs Rs.36 to place an order and to process the delivery. The inventory caring cost is estimated at 9% of average inventory investment. Determine EOQ, Number of Order per annum and Minimum total cost of inventory per annum.

b) Ten items are kept in the inventory. The details regarding the number of items used **(10)** per annum and price per unit are given below. Classify the items into A,B and C class.

Item No	Annual usage	Price
101	200	40.00
102	100	360.00
102	2000	0.20
104	400	20.0
105	6000	0.04
106	1200	0.80
107	120	100.00
108	2000	0.70
109	1000	1.00
110	80	400.00

Q6 Using Exponential Smoothing techniques, calculate sales forecast for the 12th year **(16)** where $\dot{a}=0.6$

Year:	1	2	3	4	5	6	7	8	9	10	11
Sales: (000)	12	15	26	28	23	34	21	22	27	28	30

5ᵗʰ Semester Regular Examination: 2018-19
OPERATIONS MANAGEMENT- I
Branch: IMBA
Time: 3 Hours
Max Marks: 100
Q Code : E251

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.
The figures in the right hand margin indicate marks.

Part- I

Q1 Short Answer Type Questions (Answer All-10)   (02x10)
   a) Briefly explain scope of production and operations management.
   b) What do product and service management differ?
   c) Is there a difference between the terms "Production Management" and "Operations Management? If so what is it?
   d) What is Inventory Management?
   e) How make-to-order and make-to stock are different?
   f) What are the important preventive measures to avoid breakdown?
   g) Briefly explainInventory procurement Costs.
   h) What do you mean by safety stock?
   i) What do you mean by collective efficiency?
   j) Explain briefly VED?

Part- II

Q2 Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve)   (06x08)
   a) Briefly explainevolution of production function.
   b) Explain briefly Delphi method and its application?
   c) Explain what is break even analysis?
   d) A hospital procures its supplies of a material once a year. The total number procured is 2400 packages (in a year). This policy of procuring material once a year is being questioned. The accountants calculate the cost of inventory holding at Rs. 36 per package per year. It is also figured out that the costs of procurement add up to Rs. 1,200 per order. What inventory policy would you advise to this hospital?
   e) What do you mean by Kanban, explain?
   f) Explain briefly Economic Order Quantity.
   g) Explain briefly interrelationship of product design and process design ?
   h) What are the factors in forecasting method will lead to accuracy?
   i) Briefly explain types of processes.
   j) Explain briefly MRP.
   k) Explain intangibility of service.

l) Briefly explain Japanese Inventory System.

Part-III

Long Answer Type Questions (Answer Any Two out of Four)

Q3 Are the moving averages method and exponential smoothing method of forecasting related? How and why? **(16)**

Q4 It is said, product design is the mother of all operations process in an organization. Explain in detail what is the purpose of product design? **(16)**

Q5 What is the objective of JIT production? Briefly explain its advantages and disadvantages. **(16)**

Q6 With neat diagram explain in detail Scope of Production & Operations Management. **(16)**