Enrollment No. 09401032021

MID-TERM EXAMINATION (Course Name B. Tech (IT/CSE/CSE-AI) (Semester 4) (February, 2023)OFF LINE mode

C.t.	
Subject Code: BMA 210	Subject: Operation Management
Time :1 ½Hours	Maximum Marks: 30
Note:Q. 1 is compulsory.	

Q1

(2.5*4)

- Explain Productivity and differentiate between Total Factor Productivity and Partial Productivity
- (a) State any Five Principles of Management?
- (b) What is Organization Structure. Explain any one of the its Format used in Industry?
 (c) Define Therbligs and mention their significance in micro-motion study? Draw any one Therbligs symbol and mention its significance?

Q2 (Attempt any Two Parts) UNIT-1
(a) ABC manufacturing company plans to build a warehouse to serve its distribution centres in Kolkata (West Bengal), Faridabad (Haryana), Nagpur (Maharashtra) and Raipur, (Chhattisgarh).
The number of units to be shipped monthly from Company's warehouse to the distribution centres are shown in Table:

Location	Annual Shipping Volume	Coordinates in Km	Coordinates i
Kolkata	10,000/-	320	
Faridabad			252
Nagpur	14,500/-	265	185
100	18,600/-	421	362
Raipur	23,200/-	125	95

- Find the appropriate location of the warehouse?

 (b) What are the significant criteria that influence the selection of location of manufacturing plant? Explain them.
- (c) Differentiate between product layout and process layout? \checkmark

Q3 (Attempt any Two Parts) UNIT-2

a) The monthly demand for office items is given in Table. Forecast the demand using 3-period and 5-periodSimple moving average (SMA) method for the 6th and 12th month.?

Table: Monthly demands for furniture for eleven months

IVIOINI	1	1	3	4	15	6	7	T			
Demand	600	640	675	736	812	842	1	8	9	10	11
(b) Explain (c) Explain	in vari	ous allo	wances	given t	o work	ers and	962	1012	867	788	942
(c) Explai	n Prod	uct Life	cycle?	_		-	consider	red in th	ne work	study?	

Explain Product Life cycle?

End-Term Examination (CBCS) (SUBJECTIVE TYPE) B. Tech (IT/CSE/CSAI), 4th Semester (May, 2022)

Q.P Code 2205107

		t: Operations Management	
me:	3 Hours	Maximum Marks : 60	
	Q. 1 is compulsory. Attempt one question each from g data, if any and highlight it.	the Units I, II, III & IV. Assume suitably	
11.	Answer the following briefly:	(2.5*8=20)	
200	(a) What is Total Factor Productivity?		
-	(b) Differentiate between cycle graph and chrono cycle gra	ab	
	The second secon	Part -	
	(c) What is performance rating? (d) What is Material Requirement Planning?		
	(e) What is the need for plant maintenance?	A STATE OF THE PARTY OF THE PAR	
-	(f) What is the significance of safety stock?		
-	(g) How normal time is different from standard time?		
	(h) What is VED analysis for selective control of inventory	2	
	UNIT-1		
Q2.	(a) State the principles of Plant Layout.	(5)	
ree.	(b) What is Fixed Position Layout? Explain with the help	f an example. (5)	
Q3.	Discuss briefly different types of Organization structures.	(10)	
	UNIT-2		
Q4. Q5. Q6.	The data given in Table 1 refers to the past sales of product Forecast the demand for the next three years using least so Table 1 Year Sales (in them 2013 40 2013 40 2013 40 2013 40 2015 40 2015 50 2015 50 2016 50 2016 50 2016 50 2016 50 2016 50 2016 50 2016 50 2018 50 2019 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2011 60 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65 2010 65	uss the different recording (10) units. The cost per unit is Rs. 5 (5) eass the delivery. The inventory einventory investment.	
100	Minimum total cost of inventory per at	num	
	(b) Discuss briefly the reasons for holding inventor		
Q7.	(a) ABC company plans to sell an article at a local at Rs. 50. The rent for the space is Rs. 20,000. The particles which must be (i) To break-evers. (ii) To dram Rs. 4000 as profit, (iii) If the company sells 1200 articles, Calculation of the company sells 1200 articles, Calculation.	sold	
	(iii) If the company sells 1200 articles, Calcula (b) Discuss briefly the factors influencing make or	buy decision. (5)	
1910	(b) Discuss briefly the factors influencing make to UNIT-4		
-	UNII-4	nance. (10)	
Q8.	Differentiate between preventive and breakdown mainte	(10)	
Q9.	Write short notes on: (a) Failure analysis (b) Organisation for maintenance department		