VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD Accredited by NAAC with A++ Grade

B.E. (Mech. Engg.) VII-Semester Supplementary Examinations, May/June-2023 Production and Operations Management (PE-III) Time: 3 hours

Max. Marks: 60

Note: Answer all questions from Part-A and any FIVE from Part-B

Q. No).		Stem o	f the qu	lostion	20 Marks)		1				
1.	What is job sl	nop proc	luction?	Cina	CSLION			N	1	L (CO	P
2.	Define produc	ctivity a	nd how	Give an	1 examp	le		2	1	2	1	1
3.	Identify the ne	ed for a	nd now j	It is mea	sured?			2		1	1	1
4.	Identify the ne	tudy and	ccuracy	in the f	orecastir	ng information	1?	2		3	2	2
5.	Define work s	rive et	mentio	n its ob	jectives			2	1		2	1
6.	How do you as	iive at s	selling p	rice of a	product	:?		2	3			1
7.	List out variou	s salient	features	s of Mas	ster Prod	uction Schedu	iling	2	2			
	Differentiate b models	etween	determi	nistic a	nd prob	abilistic inve	ntory	2	2			3
8.	Define the term	s safety	stock ar	nd reard	On : 1		1251					4
9.	How CPM diffe	r from I	PERT2 N	Mont:	er point			2	1	4		1
10.	Describe briefly	about F	Tulkerson	viention	relevant	examples		2	1	5		4
	,							2	2	5		1
11. a)	"Organization of	rurt-	B (5 \times	8 = 40 A	Tarks)							
	"Organization st of any organiza effective function	tion" –	Justify success	this sta	rating sy tement i	n the context	ess	4	3	1	2	2
0)	Define plant layo with relevant app	ut and h	ichli-1	feature	s of vari	ous plant layo	uts	4	2	1	1	
	List out various for			d how	lo von							
-/	July Simple	tore	Annual Control of the				1	3	2	2	2	
n	verage (with we ext most and 0.1 023 for the follow	for the		the most	st recent d) forec	years movi period, 0.2 f asts for the ye	ng 5 for ar	5	4	2	5	
	Year	2018	2019	2020	2021	2022						
	Sales Quantity	80	85	88	92	95						
a) Do de	efine aggregate scribe the need for	plannin or balan	g. Men	tion its	inputs	required and	d 4		2	3	2	
b) "B	ill of Materials quirement plann l proper justificat	(BOM)	1			e in Materials	5 4	3		3	1	

Code No.: 17543 S (B) N/O

	i and A B and	4	2	4	3
4. a) D	describe the process of classifying inventory items as A, B and categories and how it is beneficial to an organization in its				
in	wentory control process?	4	4	4	4
b) A	an organization has a monthly demand of 2000 units with				
C	ordering cost Rs.200 per order.				
	ordering cost Rs. 200 per order. If the holding cost is Rs. 8 per unit per year and the unit cost is Rs. 40. Compute (a) EOQ (b) annual ordering cost (c) number of Rs. 40. Compute (a) EOQ (b) time between two orders.				
I	Rs. 40. Compute (a) EOQ (b) aimetal or orders. orders placed per year and (d) time between two orders.				
1	Define project and explain the procedure of project management	3	1	5	1
15. a)	Define project and explain the proceeds and duration of the	5	4	5	2
b)	Draw network diagram and find critical path and duration of the				
	project for the following project data				
	A B C D E F G				
	Activity A B C D B B C				
	Immediate				
	predecessors Duration (in 5 8 3 5 4 2 6				
	1-10	4	1	1	2
16. a)	What is break event analysis? Explain with a simple sketch		2	2	1
b)	Differentiate between simple and multiple regression analysis	4	2	2	1
17.	Answer any two of the following:	4	3	3	1
a)	Discuss any two strategies of Aggregate planning.	4	3	4	2
b)	How quantity discounts influence inventory control and its	5 4	5	,	
(analysis?		1	5	1
(c)	1: Grant rules for drawing network diagram	4	gramme		

M: Marks; L: Bloom's Taxonomy Level; CO; Course Ourcome; PO: Programme Outcome

Blo	om's Taxonomy Level; CO, Course out	
	ALCO CONTRACTOR OF THE PROPERTY OF THE PROPERT	25%
i)	Blooms Taxonomy Level – 1	32%
i)	Blooms Taxonomy Level – 2	43%
iii)	Blooms Taxonomy Level – 3 & 4	
