Initial layout

4 6 8 6 A B C

b. Explain the methods used for job evaluation.

To From	A	В	С
A	-	1	8
В	2	-	1
С	6	2) -

28. a. Discuss in detail about the classification of intermittent production system with examples. (OR) b. Explain in detail on design of work system. 3 3 1 29. a. Explain the following: (i) Break-even analysis (ii) Product development and design (OR) b. Explain value engineering and its importance. 30. a. Explain the following: 5 1 Incentives for indirect workers (i) (ii) Profit sharing (OR)

Reg. No.							
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B.Tech. DEGREE EXAMINATION, MAY 2022

Sixth Semester

18MEO111T - INDUSTRIAL ENGINEERING

			(For the candidates admitted from	n the c	academic year 2018-2019 to 2019-202	0)			
Note		_							
(i)	Pa	rt - A should be answered in OMR are to hall invigilator at the end of 40 th	sheet minut	within first 40 minutes and OMR sheete.	et shou	ld be	e har	nded
(i	i)		rt - B should be answered in answer l						
Tim	e: 2	½ H	ours			Max.	Ma	ırks:	: 75
			$PART - A (25 \times 1)$	= 25	Marks)	Marks	BL	CO	PO
			Answer ALL (·				
	1	The	e correct order of procedure in me			1	2	1	1
	٠.		Select-record-examine-				2	1	1
			develop-define-install maintain		Select-define-examine-develop- record-install-maintain				
		(C)	r	(D)	Select-record-examine-define-				
			examine-define-install- maintain		develop-install-maintain				
	2.	A	diagram showing the path fol	lowed	d by men and materials while	1	2	1	1
		per	forming a task is known as		,				
			String diagram	(B)	Flow process chart				
		(C)	Travel chart	(D)	*				
	2	The	are and remining as all a late.	,	6 1 1				
	٥.		re are various methods to reduce			1	2	1	1
			Increase in production output	(B)	Reduction in number of rejections				
		(C)		(D)	Producing standardized				
			inventory levels		products				
	4.	Bas	ic tool in work study is			1	1	1	1
		(A)	Graph paper	(B)	Process chart				
		(C)	Planning chart	(D)	Stop watch				
	5.	In n	nicro-motion study, therblig is dec	crease	ed by	1	1	1	1
			A symbol		An event				
		(C)	An activity	(D)	Standard symbol and colour				
	6.	Mat	erial handling in automobile indu	strv i	s done by	1	1	2	1
			Overhead crane	-	Trolley				
		(C)		(D)	Human				
	7.	Proc	cess layout is employed for			1	1	2	1
			Batch production	(B)	Job production				
		, ,	Mass production	` '	Scale production				

(D) Scale production

10 3 5 1

8.	In a cost-value matrix, the high value	and high cost is related to	1	1	2	1	19.		k-even point is the point where		1	1	4	1
	(A) Process layout	(B) Group layout						(A)	Fixed and variable cost lines	(B) Variable and total cost lines				
	(C) Product layout	(D) Machine layout							intersect	intersect				
	` '							(C)	Total cost and fixed lines	(D) Total cost and sales revenue				
9.	Which one of the following in not a	a factor considered plant location and	1	1	2	1			intersect	lines intersect				
	site?													
	(A) Raw material availability	(B) Transport facilities									,	0	4	,
	(C) Climate	(D) Machining operations					20.	PPL	does not involve		1	2	4	1
								(A)	Product development	(B) Work station design				
10.	Standard time is defined as		_1	1	2	1		(C)	Sales forecasting in estimating	(D) Marketing			_	
	(A) Normal time +allowance	(B) Normal time + idle time					21.	Non-	financial incentives do not inclu	de	1	2	5	1
	(C) Normal time +idle time +							(A)	Job satisfaction	(B) Job security				
	allowance							(C)	Promotion	(D) Bonus				
												,	_	
11.	Productivity =						22.	Bene	efits of group incentive plan		1	1	3	1
		(B) $\lceil cost \rceil$						(A)	Uncertainity of profits	(B) Low overhead cost				
	(A) $1 + \left[\frac{Profit}{Cost} \right]$	(B) $1 + \left[\frac{cost}{Profit}\right]$						(C)	Wastages of time	(D) Opposition by trade unions				
													_	
	(C) $1 - \left[\frac{Profit}{G}\right]$	(D) $1 - \left[\frac{cost}{Profit}\right]$					23		evaluation is the method of deter		1	1	5	1
	[Cost]	Profit						. ,	Relative worth of jobs	(B) Skills required by a worker				
								(C)	Contribution of a worker	(D) Contribution of a job				
12	Which of the following is most t	focused on the characteristics of the	1	2	3	1					,	,	-	1
12.	worker?						24		incentives involve direct		1	1	5	1
	(A) Ergonomics	(B) Human relations approach						(A)	Direct	(B) Indirect				
	(C) Scientific management	(D) Industrial psychology						(C)	Financial	(D) Non-financial				
	(6) 2000000000000000000000000000000000000										1	1	5	,
13.	Which provides a systematic approx	ach to decision making in competitive	1	2	3	1	25	_		of day.	1	1	J	1
	environments?							. ,	Daily	(B) Hourly				
	(A) Dynamic programming	(B) Game theory						(C)	Weekly	(D) Monthly				
	(C) Waiting line	(D) Simulation												
	,										Marks	DΪ	CO	, PO
14.	Productivity index		1	1	3	1			$PART - B (5 \times 10)$	· ·	MILLINS	DL	CO	10
	(A) Output/human input	(B) Turnover/capital input							Answer ALL (Questions				
	(C) Output/actual machine hours	s (D) Effectiveness / efficiency									10	2	1	1
	used						26. a			sed in work study to improve the	10	5	1	1
15.	Ergonomics is not related to		1	-1	3	1		prod	luctivity in industry.					
	(A) Human comfort	(B) Human security												
	(C) Human safety	(D) Work place environment							(OR)		10	3	1	1
							t l	Disc.	cuss in detail the role of simo cha	art in work study.	10	.1		,
16.	Which is not the objective of PPC?		1	1	4	1				1	10	3	2	1
	(A) Controlling	(B) Directing					27. 8			layout with neat sketch. Also list the	10	J	2	1
	(C) Coordination	(D) Communication						adva	antages, disadvantages and its su	itability.				
							1		(07)					
17.	is the process of	f reducing the variety of products	3 1	1	4	1		~	(OR)		10	4	2	1
	manufactured.						ł			ut with unit cost matrix. Use the craft			-	•
	(A) Standardization	(B) Simplification						pair	wise interchange technique to ol	orain the desirable layout.				
	(C) Specialization	(D) Diversification												
18.	Total productive maintenance aims	at	1	1	4	1								
	(A) Less idle time	(B) Increase in productivity												
	(C) Zero down time	(D) Increase in quality												

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