



BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – Dip.ME-2019
Course Name – Industrial Engineering
Course Code - DME601
(Semester VI)

Full Marks: 60

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1.	Choose the correct alternative from the following	g :	
(i)	select the most suitableincentive plan for the maintenance section of an industry.		
	a) piece rate system	b) group incentive plan	
	c) profit sharing plans	d) simplification	
(ii)	Actual performance of a task is called		
	a) an event	b) an activity	
	c) a duration	d) none of these	
(iii)	Production cost refers to prime cost plus	·	
	a) factory overheads	b) factory and administration overheads	
	c) factory, administration and sales overheads	d) factory, administration, sales overheads and profit	
(iv)	Fixed position layout is also known as		
	a) analytical layout	b) synthetic layout	
	c) static product layout	d) none of these	
(v)	Identify the type of organisation preferred for a steel industry.		
	a) line organisation	b) functional organisation	
	c) line and staff organisation	d) line, staff and functional organisation	
(vi)	Choose a diagram showing the path followed by men and materials while performing a task.		
	a) string diagram	b) flow process chart	
	c) travel chart	d) flow diagram	
(vii)	The determination of standard time in a complex job system is best done through		
	·		
	a) stop watch time study	b) analysis of micromotions	
	c) grouping timing technique	d) analysis of standard data system	
(viii)	Finance must keep investment and costs low. The	nis can be done by	

(ix)	investment is at a maximum c) Producing small quantities In break even analysis, total cost consists of	warehouses d) Using short production runs	a
(x)	a) fixed cost + sales revenuec) fixed cost + variable costMicromotion study Determines the	b) variable cost + sales revenued) fixed cost + variable cost + profit	
(xi)	a) analysis of one stage of motion chartc) subdivision of an operation into therbligs and their analysisValve analysis is particularly of interest	b) motion study, when seen on a time d) enlarged view of motion study	chart
(xii)	a) jobbing work economics are involvedc) only few components are involvedChoose thecorrect type of layout used for many	b) production is on large scaled) costly equipment is usedufacturing steam turbines.	
(xiii)	a) product layoutc) fixed position layout) Service time in queuing theory is usually assum	b) process layout d) any one of these ed to follow	
(xiv)	a) normal distribution c) Erlang distribution At the break even point	b) Poissons distribution d) exponential law	
(xv)	a) total cost is more than the sales revenuec) total cost is equal to sales revenueFor handling materials during manufacture of c	b) total cost is less than the sales reverd) fixed cost is equal to variable costement, a is widely used.	nue
	a) belt conveyor c) fork lift truck	b) bucket conveyord) overhead crane	
	Grou (Short Answer Ty	-	3 x 5=15
3. E: 4. E: 5. D	explain the application in scheduling. Explain the Queuing system. Explain the types of Queuing system. Explain the benefits of FMS system. Explain tolls and techniques of inventry control. OI	₹	(3) (3) (3) (3) (3)
E	xplain concept of Process Mapping.		(3)
	Grou (Long Answer Ty	•	5 x 6=30
8. 9. 10. 11. 12.	Discuss machine tool applications of NC system. Explain supplier development. Differntiate between production planning and pr Write short notes on Allowances. Explain the term project management. Explain the drivers of supply chain performance. OI Explain supply chain network.		(5) (5) (5) (5) (5) (5)
			` /
