



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme – Dip.ME-2021 Course Name – Industrial Engineering Course Code - DME601 (Semester VI)

Full Marks: 60

Time: 2:30 Hours

[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

- Choose the correct alternative from the following:
- (i) Identify the correct option for systematic job improvement sequence.
 - a) motion study

b) time study

c) job enrichment

- d) all of these
- (ii) Choose the correct option about line organization
 - a) responsibility of each individual is fixed
- b) discipline is strong

c) quick decisions are taken

- d) all of these
- (iii) Choose the correct guidelines for the construction of a network diagram.
 - a) Each activity is represented by one and only one arrow in the network
- b) Dangling must be avoided in a network diagram.
- c) Dummy activity consumes no time or resource.
- d) all of these
- (iv) Identify the correct statement about dispatching.
 - a) It prescribes the sequence of operations to be followed
- b) It determines the programme for the operations
- c) It is concerned with the starting of processes
- d) It regulates the progress of job through various processes
- (v) Predict the uses of string diagram from the following.
 - a) for checking the relative values of various layouts
- b) when a group of workers are working at a place
- c) where processes require the operator to be moved from one work place to another
- d) all of these
- (vi) Choose the correct purpose of micromotion study.
 - a) assist in finding out the most efficient way of doing work
- b) train the individual operator regarding the motion economy principles
- c) help in collecting the motion time data for synthetic time standards
- d) all of these

(vii) Choose	merit rating is the method of determin	ing the	
	e values of a job	b) worker's periormance on a jeu	
		d) value of overall production	
(viii) Choose (system.	the correct statement about Emerson's		
a) the bo	nus is paid to a worker whose output Is 67% efficiency	b) the bonus is paid to a worker on the percentage of time saved	
c) the bo	nus is paid to a worker on the tage of time worked he correct statement.	d) the bonus is paid to a worker on the percentage of standard time	
a) Indirec	t expenses include factory expenses	b) all of these	
c) Indirec	t expenses include selling expenses	 d) Indirect expenses include administra expenses 	tive
(x) Identify p	roduct layout is also defined as		
a) analytic	cal layout	b) synthetic layout	
	roduct layout ne correct statement.	d) none of these	
plannin	rk study is done by means of g chart	b) The work study is done by means of process chart	
watch	rk study is done by means of stop	d) any one of these	
(xii) Identify C	PM relates with		
a) single ti	me estimate	b) double time estimate	
c) triple tir	ne estimate	d) none of these	
(xiii) Predict Pro	ogramming techniques are generally	explained as	
	al techniques	b) mathematical techniques	
	on research techniques tter diagram is also named as	d) none of these	
a) correlati		b) zero correlation	
c) probabil		d) none of these	
(xv) Identify th	e quantitative measure of correlation	n between two variables is named as	
,		b) coefficient of regression	
•	nt of correlation nt of determination	d) none of these	
c) coefficie	nt of determination	d) Holle of these	
	Grou	ın P	
	Gro ι (Short Answer Τ	· •	3 x 5=15
	(Short Answer 1	ype Questions)	2 × 2-13
			(2)
2. Describe Inve	The state of the s		(3)
•	ejective of simulation technology.		(3)
	m line of balance.		(3)
5. Explain the te			(3)
Explain briefly	the levels of automation.		(3)
	0	R	
Explain retriev	al type CAPP system.		(3)
	Grou	лр-С	
	(Long Answer Ty	ype Questions)	5 x 6=30
		· ·	
7. Explain the be	enefits of CIM		/E1
7 Sq 2 st	ent grippers used in robot.		(5)
b. Discuss uniter	ent grippers used in Tobot.		(5)

7. 8.

9.	Explain the goal of supply chain and explain the of the firm.	impact of supply chain decision on success	(5)
11.	Explain the need for ERP concept. Explain any three objectives of maintenance. Explain supply chain integration.		(5) (5) (5)
	Explain production planning.	DR	(5)

•