

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Program: BE Mechanical Engineering

Curriculum Scheme: 2012

Examination: Final Year Semester VIII

Course Code: MEC802 and Course Name: Industrial Engineering and Management

Time: 1 hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Industrial Engineering technique of critical investigation is
Option A:	Mechatronics
Option B:	Tribology
Option C:	Automation
Option D:	Work Study
Q2.	Industrial Engineering borrows principles of effective maintenance from
Option A:	TQM
Option B:	JIT
Option C:	LEAN
Option D:	TPM
Q3.	Factors influencing operator's productivity relate to
Option A:	Work Environment
Option B:	Sales
Option C:	Revenue
Option D:	Profit
Q4.	Cost Value of a product is cumulative cost incurred at the end of
Option A:	Design Stage
Option B:	Manufacturing Stage
Option C:	Ideation Stage
Option D:	Prototyping Stage
Q5.	Esteem Value of a product is the
Option A:	disposal value
Option B:	end value
Option C:	utility value
Option D:	owner's pride
Q6.	Exchange Value of a product is it's
Option A:	awe factor
Option B:	aesthetic value
Option C:	possible trade off
Option D:	ergonomic value
Q7.	In a Factory layout, movement of materials can be depicted by
Option A:	Pie Charts

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Option B:	Travel Chart
Option C:	Histogram
Option D:	Pareto Chart
Q8.	In a Factory layout, movement of workers is depicted in
Option A:	Venn Diagram
Option B:	String diagram
Option C:	Iron Carbon Diagram
Option D:	Scatter Diagram
Q9.	Gang work could be studied using
Option A:	Gangway Layout
Option B:	Cusum Chart
Option C:	Multiple activity chart
Option D:	Check Sheets
Q10.	Workplace layout could be studied using
Option A:	Two-handed process chart
Option B:	Cusum Chart
Option C:	Venn Diagram
Option D:	Run Chart
Q11.	Typesetting by hand could be studied using
Option A:	Simo Chart
Option B:	String diagram
Option C:	Travel Chart
Option D:	Histogram
Q12.	Illumination of work area compared to surroundings should be
Option A:	more
Option B:	less
Option C:	equal
Option D:	matching
Q13.	The safe exposure limits for noise levels for 08 hours of working/day in dB is
Option A:	90
Option B:	110
Option C:	130
Option D:	150
Q14.	The following are the principles in the application of Anthropometric data except
Option A:	Design for extreme individuals
Option B:	Design for the average
Option C:	Design for adjustable range
Option D:	Design for the optimum

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Q15.	The international limits for chemical substances in air is known as
Option A:	Maximum Limit
Option B:	Minimum Limit
Option C:	Optimum Limit
Option D:	Threshold Limit
Q16.	Extent of material handling is relatively more in
Option A:	Product Layout
Option B:	Process Layout
Option C:	Fixed Layout
Option D:	Project Layout
Q17.	Extent of material handling is relatively less in
Option A:	Product Layout
Option B:	Process Layout
Option C:	Fixed Layout
Option D:	Project Layout
Q18.	Production facility is relatively more versatile in
Option A:	Product Layout
Option B:	Process Layout
Option C:	Fixed Layout
Option D:	Project Layout
Q19.	Production facility is relatively less versatile in
Option A:	Product Layout
Option B:	Process Layout
Option C:	Fixed Layout
Option D:	Project Layout
Q20.	Facility location decision does
Option A:	consider availability of labour
Option B:	not consider availability of utility services
Option C:	not consider nearness to market
Option D:	not consider nearness to supplier of raw material
Q21.	If total cost of 100 units is Rs 5000 and those of 101 units is Rs 5030 then increase of Rs 30 in total cost is
Option A:	Marginal Cost
Option B:	Prime Cost
Option C:	Variable overheads
Option D:	Contract Cost
Q22.	Marginal costing is also known as
Option A:	Indirect Costing
Option B:	Direct or Variable Costing
Option C:	Fixed Costing
Option D:	Contract Costing

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Q23.	Which of the following statements is true?
Option A:	Marginal costing is an independent system of costing.
Option B:	In marginal costing all elements of cost are divided into fixed and variable components.
Option C:	In marginal costing fixed costs alone are treated as product cost.
Option D:	Marginal costing is not a technique of cost analysis.
Q24.	Which of the following statements is false?
Option A:	In marginal costing fixed costs alone are treated as product cost.
Option B:	Marginal costing is a technique of cost analysis.
Option C:	Marginal costing is not an independent system of costing.
Option D:	In marginal costing all elements of cost are divided into fixed and variable components.
Q25.	While computation of profit in marginal costing
Option A:	Total marginal cost is deducted from total sales revenues
Option B:	Total marginal cost is added to total sales revenues
Option C:	Fixed cost is added to contribution
Option D:	Variable cost is added to contribution

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	D
Q2.	D
Q3.	A
Q4	B
Q5	D
Q6	C
Q7	B
Q8.	B
Q9.	C
Q10.	A
Q11.	A
Q12.	A
Q13.	A
Q14.	D
Q15.	D
Q16.	B
Q17.	A
Q18.	B
Q19.	A
Q20.	A
Q21.	A
Q22.	B
Q23.	B
Q24.	A
Q25.	A