Roll No.

24359

B. Tech. (ME) 6th Semester Examination – May, 2015

INDUSTRIAL ENGINEERING

Paper: ME-312-F

Time: Three Hours]

[Maximum Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt any five questions in total, at least one question from each Section. Question No. 1 is compulsory. Each question carries equal marks.

1. Explain the following:

20

- (a) Productivity
- (b) Standard Costing
- (c) Fixed and Variable cost

P. T. O.

(d) Marginal Costing (e) Stock out risk Introduction to JIT (f) (g) Concept of Quality (h) Objectives of PPC Value Engineering (i) (j) Gantt Chart SECTION - A 2. (a) Define method study. Explain the various 10 techniques of method study. work methods various (b) Discuss the 10 measurement in detail. 3. (a) What do you mean by the term "Financial incentives" and explain the various incentives 10 payment schemes? (b) Describe the various strategies for improving 10

(2)

productivity in detail.

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SECTION - B

4. (a) Discuss concept of material management

function. What are the activities involved in

	material management ?	10
(b)	Explain the following:	10
	(i) ABC Analysis.	
	(ii) SDE Analysis.	
5. (a)	Explain the direct, indirect and overhead costs	in
	detail.	10
(b)	Explain the following:	10
	(i) Break even analysis.	
	(ii) Recovery of overheads.	
	SECTION - C	
6. (a)	Explain the various approaches of quality ar	ıd
	concept of quality assurance systems in detail.	
(b)	What are X, R and C charts? Explain the proce	SS
•	control charts for variables. Also explain the	ne
	theory of runs.	10
7. (a)	Explain the objectives and variables of PPC ar	nd
, (-7	also describe the various means of measurir	
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	٠,	of forecasting in detail.
		SECTION - D
8.	(a)	Explain the importance of MIS and role of MIS in
		decision making. 10
	(b)	Explain the following: 10
		(i) Data flow diagram.
*,	14 41	(ii) Organizational and information system
		structure.
9.	(a)	Explain the concept of 3Ss - Standardization,
	;	Simplification and Specialization. 10
1	(b)	Discuss the concept of value engineering and role
		of ergonomics in product design.
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(b) Explain the objectives of forecasting and methods