

HV-641

January 2017

Master of Business Administration (MBA) Examination

(Full Time) (New) Third Semester FT 305P : WORK STUDY AND PRODUCTIVITY

Time 3 Hours

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[Max. Marks 80

Note: Question paper consist of two Sections A and B. Attempt any four questions from Section A. Section B is compulsory.

Section A

1.	(a)	What are the causes and remedies for 'ineffective time due to shortcoming of	
	(b)	What are the benefits of increased productivity for workers and customers?	10
2.	(a)		5
	(b)	What factors will you consider for selecting a department for method study? Which recording techniques are useful for designing a layout? Explain in brief.	10
•	(a)	1 of the useful for designing a layout 7 Europe in honof	5
3.	100000	Draw a diagram to depict various classes of working areas of a workman.	10
4	(a)	Describe verience of a workman.	5
4.	(4)	Describe various steps in time study to determine standard time of a job using a flow chart.	
			10
	(0)	Describe various types of relaxation allowances.	5
5.	Assume that you are seating on your seat in a class. Your teacher asks you to draw a diagram on the White Board in front of the class. Draw the flow process chart.		
6.	Wri	te short notes on any three of the following :	15

- (a) Rating.
- (b) Predetermined Motion Time Study (PMTS).
- (c) Capital Productivity.
- (d) Qualified Worker.

 $5 \times 3 = 15$

Section B

7. An operation consist of 6 elements A to "F. time study is conducted and following observations are made. Calculate production rate per hour if contingency allowance is 3%.

Element	Observed Time (Min : Sec)	Rating	Relaxation allowance
A	1:20	80	10%
В	0:40	90	15%
C	3:30	100	13%
D .	1:30	120	8%
E .	0:20	80	8%
F	2:10	110	12%

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8. Work sampling study was conducted to determine percentage of idle time of an automatic section. Calculate no. of observations necessary to attain results with confidence level of 55% and accuracy level of ±5%.

A pilot study was conducted 1000 random observations showed 250 observations when machine was idle.

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