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January 2019

Master of Business Administration (MBA) Examination

(Full Time) (New) Third Semester

FT-305P : WORK STUDY AND PRODUCTIVITY

Time 3 Hours]

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 various external factors for improvement of productivity ? 7½
    (b) What are various components of Work Content ? 7½

2. Describe principles of Motion Economy with neat diagram. 15

3. (a) What are objectives of Work Measurement ? Describe methods used for the same. 7½
    (b) What are various human aspects in Method Study ? 7½

4. You have to assemble the classical ball pen with a spring, cap, refill, head. Draw two handed process chart for the same. http://www.davvonline.com 15

5. (a) Describe various types of allowances and their need. 7½
    (b) Describe methodology of PMTS. 7½

6. Write short note on any three of the following :
    (a) Micromotion Study.
    (b) String Diagram.
    (c) Flow Process Chart.
    (d) Labour Productivity.

Section B

7. A Cumulative Stop Watch is used to determine standard time. The ratings of 4 operations are given below. If rating of four operations are 70%, 90%, 120%, 80%. Determine standard time if allowance is 22%.

(Time in Minutes and Seconds)

Activity	A Start	B Start	C Start	D Start
Job 1	0:00	0:17	1:12	1:21
Job 2	1:54	2:03	2:55	3:07
Job 3	3:42	4:00	4:59	5:09
Job 4	5:40	5:55	6:50	7:00
Job 5	7:35	7:45	8:35	8:45

Job is finished at 9:15. 15

8. 600 random observation showed that 200 times, the operation was idle.
    Is number of sample sufficient to attain accuracy of ±2% and confidence level of 95%.
    $(Z = 1.96)$ 5

800

-/-/30/20