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BOARD DIPLOMA EXAMINATION, (C-14)
JUNE-2019
DME - FOURTH SEMESTER EXAMINATION
INDUSTRIAL ENGINEERING

Time: 3 Hours   Max. Marks : 80

PART-A

10x3=30M

Instructions: 1) Answer **all** questions. Each question carries **three** marks.
2) Answer should be brief and straight to the point and shall not exceed five simple sentences.

1) State the objectives of method study.

2) Write the differences between operation process chart and flow process chart.

3) What is Standard Data? state its use.

4) Define the term Rating factor and write its purpose.

5) What are the objectives of job evaluation?

6) Write about Rating scale.

7) Name the different types of wages.

8) Write about Taylor's piece rate system.

9) What is the purpose of X- bar and R charts.

10) Write about Double sampling plan with a line diagram.

PART-B

Instructions: 1) Answer **five** questions.
2) Each question carries **ten** marks.
3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11) Explain the following:
   (a) Flow diagram   (b) String diagram.

12) prepare a two handed process chart by taking suitable example.

13) What is standard time? What are its constituents? Define them briefly.

14) (a) What is work sampling? Give its objectives and advantages.
   (b) Define Incentive and list the types of Incentives.

15) (a) What are the advantages and disadvantagesof merit rating.
   (b) Write about different types of merit rating methods.

16) Explain Bedaux premium plan. List out the advantages and limitations.

17) The values of sample means and range for 10 samples of size 5 each is given below Draw $\overline{X}$ and R chart for the maens and ranges. Comment on the state of control of the process.

Sample no.	1	2	3	4	5	6	7	8	9	10
Mean	42	49	38	44	45	37	51	46	43	48
Range	6	5	5	7	6	5	8	6	4	6

   For n=5, take A_2=0.58,D_3=0, D_4=2.11.

18) Explain the following.
   (a) Producer Risk   (b) Consumer's Risk
   (c) IQL   (d) AQL   (e) LTPD.

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