

C14-M-403

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BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2021

DME - FOURTH SEMESTER EXAMINATION

INDUSTRIAL ENGINEERING

Time : 3 hours]

[Total Marks : 80

PART—A

4×5=20

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **four** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. List any four elements used in process chart.
2. List any four steps involved in method study.
3. Define time study.
4. State the purpose of work sampling.
5. List any two methods of job evaluation.
6. Define merit rating.
7. Define the terms base wage and production bonus.
8. List the types of wages.
9. Explain the following terms that are used in SQC :
(a) LTPD
(b) AOQ
10. Define the terms shifts and trends, in process control charts.

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PART—B

15×4=60

- Instructions :** (1) Answer *any four* questions.
(2) Each question carries **fifteen** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Write the method study procedure.
12. What are charts used in method study? Explain any one of them.
13. Describe the time study equipment.
14. (a) State the advantages of PMTS.
(b) Explain briefly about Rowan wage plan.
15. Explain the job analysis, job evaluation and job specification.
16. Explain the Taylor's differential piece rate system.
17. Explain the meaning of the terms Lot, Lot quality, Lot size, sample size and acceptance number.
18. Write briefly about the role of Mechanical Engineer in an Industry.

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