

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]

Dec.-22-0303

ME-704 (Industrial Engineering and
Production Management)

B.Tech. 7th (CBCS)

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all, select one question from each section A, B, C, D. Section E (question 9) is compulsory.

SECTION - A

1. What are the important characteristics of modern management thought? How are they different from earlier approaches? (10)
2. What are the functions of HRM? "Job analysis is the most basic personal management function" discuss. (10)

SECTION - B

3. Examine the statement, "planning, organizing, co-ordination and control are the basic functions of management". (10)
4. Differentiate between:
 - (i) Multiple activity chart and SIMO chart.
 - (ii) Flow diagram and string diagram. (5×2=10)

SECTION - C

5. What do you mean by standard time? Calculate the standard time for the component.

2

ME-704

Element	Description	Observed time	Rating %	Relaxation Allowance %
A	Position the job	0.25	80	10
B	Switch 'ON', and lower drill	0.09	100	11
C	Drill hole	2.8	90	12
D	Raise drill and switch 'OFF'	0.05	80	10
E	Remove job from jig	0.15	110	11

(10)

6. What are the factors that influence the plant layout? Explain the various tools and techniques of plant layout. (10)

SECTION - D

7. Explain the wages and factors affecting wages. Explain the term merit rating. (10)
8. What is inventory? Derive the basic inventory model. (10)

SECTION - E

(Compulsory Questions)

9. Explain the Following:
 - (i) Job rotation and job simplification.
 - (ii) Man machine chart
 - (iii) Buffer stock.
 - (iv) Lead time.
 - (v) Forecasting.
 - (vi) Production planning.
 - (vii) Role of leadership.
 - (viii) Therbligs.
 - (ix) Gravity Location Problems
 - (x) Fixed order quantity system. (10×2=20)