

Total No. of Questions : 8]

SEAT No. :

P-6480

[Total No. of Pages : 2

[6181]-13
B.E. (Automobile)
INDUSTRIAL ENGINEERING
(2019 Pattern) (Semester-VII) (416483)

Time : 2 Hours]

[Max. Marks : 50

Instructions to the candidates :

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.*
- 2) Neat diagrams must be drawn wherever necessary.*
- 3) Figures to the right side indicate full marks.*
- 4) Assume Suitable data if necessary.*

- Q1) a)** Explain Productivity Improvement Techniques. **[6]**
- b) Write in details functions of an industrial engineer. **[7]**

OR

- Q2) a)** Define Productivity and explain following productivity measures. **[7]**
- i) Partial Productivity Measures
 - ii) Total Productivity Measures
 - iii) Total Factor Productivity Measure
- b) The following information regarding output produced and inputs consumed for a particular period of time for a company given below. **[6]**
- i) Output = Rs. 10000/-
 - ii) Human Input = Rs. 3000/-
 - iii) Material Input = Rs. 2000/-
 - iv) Capital Input = Rs. 3000/-
 - v) Energy Input = Rs. 1000/-
 - vi) Other Miscellaneous Input = Rs. 500/-

Calculate Total Productivity and Total Factor Productivity.

P.T.O.

- Q3)** a) Explain various method study symbols for recording facts. [6]
b) Explain Operation Process Chart. [6]

OR

- Q4)** a) What are Therbligs? Write any 5 with symbols. [6]
b) Explain Flow Process Chart. [6]

- Q5)** a) Explain in detail factors affecting selection of location for the industrial plant. [7]
b) Write a short note on Material Handling Equipment. [6]

OR

- Q6)** a) Explain Objectives of Plant Layout. [7]
b) Explain relationship between Layout and Material Handling. [6]

- Q7)** a) Explain Aggregate Planning. [6]
b) Explain MRP I and MRP II. [6]

OR

- Q8)** a) Explain functions of PPC. [6]
b) Write a short note on ABC Analysis. [6]

