

2107062

BACHELOR OF VOCATION
Automotive Manufacturing
Subject: Operations Research and Industrial Management
Subject Code: BBME-313
Semester: Fifth
July 2021
Theory (External): 70 Marks
Time: 03 Hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 2 marks.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 10 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number									

SECTION –A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x2=20 Marks)

- A What is the Significance of Operations Research?
- B What is difference between PERT and CPM
- C What is meant by JIT
- D Explain rule of dominance in game theory .
- E Give two modern concepts of operations management
- F What is dummy activity in network construction
- G What is manpower planning
- H What are different issues in material management
- I What is Monte Carlo simulation
- J What is cost accounting

SECTION –B (ESSAY TYPE QUESTIONS)
(5x10=50 Marks)

- 1 What are the important areas of application operation research in business decision making
- 2 Explain the fields of application of queuing theory and main characteristics of queuing system
- 3 A company is spending Rs 1000 on transportation of its units from three plants to four distribution centres. It has calculated cost to different plants to distribution centre, given below in Rs , The supply and demand of units is given below . Will the company save by optimal scheduling

Plant	Distribution Centres				Availability
	D1	D2	D3	D4	
P1	19	30	50	12	7
P2	70	30	40	60	10
P3	40	10	60	20	18
Requirements	5	8	7	10	

- 4 Write a detail note on leadership theories
- 5 Write a detail note on industrial relations and legislations
- 6 Discuss different methods of Inventory management
- 7 Discuss various issues related to Purchase management
- 8 What is marketing management. Also explain the difference between marketing and sales by taking suitable example

==END OF PAPER==