

RAN-2408000802030001
MMS (Sem.-II) Examination April - 2026
Operations Management

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book (2) Q1. and Q7 are compulsory to attempt. (3) Attempt any 3 (three) from Q.2, to Q.6 (4) Figures to the right indicate marks allotted to that question. (5) All questions carry equal marks.	Seat No.: <table border="1" style="width: 100%; height: 30px; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> Student's Signature						

Q.1. Define operation. Discuss different types of process with its merits and demerits. **14**

Q.2. Explain the concept of facility location. Discuss various methods of selecting facility location. **14**

Q.3. Discuss the process of MRP and CRP in detail. **14**

Q.4. a) Five men are available to do five different jobs. From the past data, the time (in hours) that each man takes to do the job is known and is given in the following table. Find out how men should be assigned the jobs in way that will minimize the total time. **10**

	Jobs				
Men	I	II	III	IV	V
A	2	9	2	7	1
B	6	8	7	6	1
C	4	6	5	3	1
D	4	2	7	3	1
E	5	3	9	5	1

b) Explain objectives of Aggregate Production Planning. **04**

Q.5. Define the term Quality control? And explain in brief reasons for quality control supporting with suitable examples. **14**

Q.6. Define scheduling. Discuss objectives and strategies of scheduling. **14**

Q.7. Answer following. (Any two)

14

- a) JIT production system
- b) MPS methodology
- c) Queuing theory
- d) Four jobs are to be processed on three machines in the order of M1-M2-M3. Timing of the jobs are given in the following table. Sequence these jobs as per the Johnson's rule and find out total processing time.

	A	B	C	D
M1	12	6	7	8
M2	6	4	5	3
M3	10	8	6	7
