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M.B.A. (Sem. - III)

(304 D) : MODELING TECHNIQUES AND IT FOR OPERATIONS
MANAGEMENT

Production and Material Specialisation

(2008 Pattern)

Time : 3 Hours]   [Max. Marks :70

Instructions to the candidates:

1)   Answer any five questions.
2)   All questions carry equal marks.

Q1) Describe the key features of widely used softwares for following :

a)   Project planning & scheduling.

b)   Supply chain management.

Q2) Explain the role of IT in designing, production planning, layout & logistical operations.   www.sppuonline.com

Q3) State the steps involved in modeling process for managerial decision rules.

Q4) Explain the concept of ERP? Describe the prerequisites for effective implementation of ERP system in manufacturing organisation.

Q5) What is decision trees? Explain various application of decision trees in operation management.

Q6) Five jobs J_1 to J_5 are to be processed on two work centres WC_1 & WC_2. The processing time in hours for these jobs at two work centres are given below.

Job	J_1	J_2	J_3	J_4	J_5
WC_1	12	4	5	15	10
WC_2	22	5	3	16	8

Determine the optimal Job sequence which minimise the cycle time and idle time in two work centres.

P.T.O.

Q7) Write short notes on (any two) :
   a)   Goal programming.
   b)   Design of Experiments.
   c)   Sensitivity Analysis.
   d)   Trans-Shipment model.

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