

M.H.R.D. (Semester—IV) Examination
SUB-FUNCTIONAL AREAS IN MANAGEMENT—II
Paper—404

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) All questions are compulsory.

(2) All questions carry equal marks.

1. (a) Explain the significance of plant location in Business. Discuss various steps to be followed in locating the plant. 16

OR

- (b) Discuss the factors that influence the selection of location for a plant. State the advantages and disadvantages of urban and rural locations. 16
2. (a) Explain the significance of material management. 4
- (b) Discuss the term 'Production Planning and Control'. 4
- (c) Graphically explain the concept of 'EOQ' as technique of inventory control. 4
- (d) State the principles of 'Plant Layout'. 4

OR

- (e) Discuss the nature and scope of material management. 4
- (f) What is meant by 'Plant Layout' ? 4
- (g) Explain the technique 'A B C' Analysis in Inventory Control. 4
- (h) State the significance of Production Planning and Control (PPC) in manufacturing industry. 4
3. (a) What is meant by 'Work Measurement' ? 4
- (b) Explain the 'Time and Motion Study' principle of F. W. Taylor. 4
- (c) Discuss the term 'Work Sampling'. 4
- (d) What is meant by 'Method Study' ? Give suitable example. 4

OR

- (e) "Sample should represent the population". Discuss. 4
- (f) Define the term 'Capacity Planning'. 4
- (g) State the objectives of 'Work Measurement'. 4
- (h) Draw a flow process chart with the help of suitable example. 4

4. (a) Explain the significance of Transportation model. Solve following Transportation model with the help of North West Corner Method (NWCN) where P is plant and W is warehouse :

	W ₁	W ₂	W ₃	Supply
P ₁	7	6	9	20
P ₂	5	7	3	28
P ₃	4	5	8	17
Demand	21	25	19	65

8+8=16

OR

- (b) Solve the following Assignment problem with Hungarian method :

	M ₁	M ₂	M ₃	M ₄	M ₅
J ₁	7	5	9	8	11
J ₂	9	12	7	11	10
J ₃	8	5	4	6	9
J ₄	7	3	6	9	5
J ₅	4	6	7	5	11

16

5. (a) What are the types of decisions ? Explain 'Decision Under Risk' in brief with example. 4
 (b) What is meant by 'Simulation' ? 4
 (c) List and explain different approaches for decision under certainty. 4
 (d) "In Indian Air Force Simulators are used to train the pilot". State the advantages. 4

OR

- (e) What is decision tree ? Illustrate with example. 4
 (f) List the approaches for decisions under Risk. 4
 (g) Explain the significance of simulation. 4
 (h) Simulation is much cheaper, safer and easier to experiment with than to experiment with real machine. Discuss. 4