

**AG-108**

April-2023

Int. MBA, Sem.-VIII

**Production and Operations Management**

Time : 2:30 Hours]

[Max. Marks : 70

1. (a) Explain the types of Forecasts. 7  
 (b) Explain the types of Capacity. 7

**OR**

Calculate the Breakeven point of the following : 14

Production Manager of a unit wants to know from what quantity he can use automatic machine as against semi-automatic machine.

Data	Automatic	Semi-Automatic
Time for the job	2 min	5 min
Set up time	2 hours	1.5 hours
Cost per hour	₹ 20	₹ 12

2. (a) How is location for a plant selected ? Evaluate the advantages and disadvantages of an urban site versus a rural site. 7  
 (b) Bring out the comparison between Product Layout and Process Layout. 7
3. (a) Define the term 'Work Study' and state its objectives. 7  
 (b) What is Ergonomics ? Explain the application of Ergonomics. 7

**OR**

- (a) What do you understand by the term 'Production Planning and Control' ? Explain briefly the objectives of PPC. 7  
 (b) Explain the different levels of Production Planning. Distinguish between Scheduling and Routing. 7
4. (a) What is Material's Planning ? Explain its significance. 7  
 (b) What is Material's Budget ? Explain its purpose. 7

**OR**

- (a) Define the term 'Maintenance'. Bring out its importance. 7  
 (b) State the scope and objectives of Maintenance. 7

5. (a) Following are the information given about a project.

10

Activity	Immediate Predecessor	Time (days)
A	–	6
B	A	8
C	A	8
D	B	20
E	B	1
F	C	10
G	E	8
H	D, F	2
I	G, H	7

- (i) Construct an Arrow diagram.
- (ii) Determine the Critical path and compute the expected project completion time.
- (b) Differentiate between PERT and CPM. 4

**OR**

- (a) What do you mean by Project Management? Explain the cycle of a Project. 7
- (b) What are techniques of Project Planning and Scheduling? 7
-