



Programme: B. Tech (MiE)

Course: Production & Operations Management

Course Code:8OEEL404

Enrolment no. _____

Full Marks: 70

Time: 3 Hrs.

Q.N o.	Questions	CO	Bloom Taxonomy Category	Marks
Section I				
1	Short Answer type questions.			
a	Explain what is meant by Scheduling. Discuss the objectives of scheduling.	CO1	Understand	4 x 5 = 20
	or			
b	State the objectives of a good plant layout.	CO1	Remember	
	or			
c	Explain what you understand by “Continuous Review System” and “Periodic Review System” for the inventories.	CO2	Understand	
	or			
d	Define the concept of "Codification" and analyze its underlying principles.	CO2	Understand	
	or			
e	Describe the concept of Material Resource Planning (MRP) and examine its significance.	CO3	Understand	
	or			
f	Identify the key factors to evaluate when making decisions about Capacity Planning.	CO3	Remember	
	or			
g	Describe the concept of Communication Planning and analyze its significance in project management.	CO4	Understand	
	or			
h	Explain what do you mean by “Crashing” as a means of Schedule Compression of a project.	CO4	Understand	
	or			
Section II				
	Long Answer type questions.			
2	Illustrate the System Concept of Production/Operations function of an organization.	CO1	Understand	3 x 10 = 30
	or			
3	Analyze the significance of scheduling in operations management and examine the key challenges associated with effective scheduling.	CO1	Analyze	
	or			
4	Explain what do you understand by “Selective Inventory Control”. Describe in detail ABC Analysis Method for Inventory Control.	CO2	Understand	
	or			
5	Explain what do you mean by Selective Control of Inventories. Appraise ABC Analysis Method, VED Analysis Method, FSN Analysis Method and HML Analysis Method of Inventory Control.	CO2	Analyze	
	or			
6	Explain what do you understand by Aggregate Production Planning. Discuss the Pure Strategies that can be followed for meeting/smoothing the fluctuations in the demand.	CO3	Understand	
	or			
7	Classify the various types of plant capacities and analyze the factors that cause demonstrated capacity to deviate from both designed and planned capacity.	CO3	Analyze	
	or			
Section III				
	Application based questions			
5	a. Describe the fundamental elements required for a contract to be legally valid.	CO4	Remember	1 x 20 = 20
	b. “Mitigating resource risk is all about being prepared in advance”, Recommend some of the ways by which you feel you can mitigate the resource risk.	CO4	Apply	
	or			
	a. Explain the essential skills and competencies required for effective project management.	CO4	Analyze	
	b. As a Project Manager, outline the essential steps required for a smooth and effective project closure process.	CO4	Apply	

COURSE OUTCOME

CO1 Apply the concept of Production & Operations management in manufacturing and service sector and will be able to plan and implement production and service related decisions.

CO2 Plan production schedules and plan resources (material and machine) required for production.

CO3 Apply the concepts of purchase, stores and inventory management and analyse and evaluate material requirement decisions.

CO4 Measure performance related to productivity and will be able to conduct basic industrial engineering study on men and machines.