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**SUBJECT CODE NO:- H-649**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.E. (MECHANICAL) (Sem-I)**  
**Elective-I Production Planning and Control**  
**[CGPA]**

**[Time: Three Hours]****[Max.Marks: 80]**

N.B

Please check whether you have got the right question paper.

- 1) Solve any three questions from each Section.
- 2) Figures to the right indicate full marks.
- 3) Assume suitable data if required & state it clearly.

**Section A**

- Q.1 a) Describe production procedure or production cycle. 08  
 b) Explain centralized and decentralized PPC. 05

- Q.2 a) Define continuous production system. Differentiate between mass production & flow production. 05  
 b) What are different methods of forecasting? Discuss merits & demerits of various methods. 08

- Q.3 a) Following data refers to past sales of one product: 10

Year:	1982	1983	1984	1985	1986	1987	1988	1989	1990
Sales in Rs. (crore):	39	54	62	73	85	100	95	105	120

Use least square method &amp; estimate sales forecasting of year 1992.

- b) Explain the need for forecasting. 03
- Q.4 a) What are seasonal variations? Why they are important in forecasting? 04  
 b) Explain Q system (fixed order quantity) and P system (Periodic review system). 09
- Q.5 a) Describe the procedure for ABC analysis. Bring out the merits & demerits of ABC analysis. 07  
 b) Derive an equation for EOQ with instantaneous stock replenishment. (Basic inventory model). 07

**Section B**

- Q.6 a) Define routing. Explain routing procedure in brief. 06  
 b) Describe 'Route sheet' with suitable example. 07
- Q.7 a) Define the concept and strategies for aggregate planning. 06  
 b) What is dispatching? State the various activities of dispatching in brief. 07
- Q.8 a) Describe the follow up or control phase of PPC. 07  
 b) Discuss the concept of computer in production planning and control. 06

- Q.9 a) State and describe the steps involved in recruitment and selection of employees. 07  
b) Define recruitment. Describe the various sources of recruitment in brief. 06
- Q.10 a) Discuss the factors and restrictions to be considered while selecting materials. 07  
b) What are the factors to be considered while selecting a material? Explain. 07