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	Tin	ne: í	3 hrs.
		N	ote: Answer any
	1	a.	Define Product
7117		1.	Cycle Managen
		b.	Discuss briefly
2	2	a.	Discuss briefly
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	3	a.	List-the benefits
1		b.	What is Concur
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17ME835

## th Semester B.E. Degree Examination, July/August 2022 **Product Life Cycle Management**

Max. Marks: 100

swer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- e Product Life Cycle Management. Discuss the Opportunities (any 4) of Product Life Management. (10 Marks)
  - s briefly the various Components of Product Life Cycle Management. (10 Marks)

- s briefly the steps involved in the development of a PLM strategy. (10 Marks)
  - n the basic component of Product Data Management System. (10 Marks)

## Module-2

- e benefits and objectives of a good Product Design. (10 Marks)
  - is Concurrent Engineering? List the advantages of Concurrent Engineering. (10 Marks)

- Discuss briefly the various steps involved in Product Design Process. (07 Marks)
  - What is Product Recycling? Also discuss the benefits of Recycling. (13 Marks)

## Module-3

- What is New Product Development (NPD)? Discuss the need for NPD 5 (10 Marks)
  - Explain the step involved in NPD.

## (10 Marks)

- OR Explain the steps involved in structuring New Product Development.
  - (14 Marks)
- b. List the characteristics of an ideal Decision Support System.

# (06 Marks)

## Module-4

- Discuss the meaning of Technological change with examples. Also mention its impact on 7 Society. (10 Marks)
  - b. Explain the following Technology Forecasting method: Brain Storming, Delphi technique and Scenario writing. (10 Marks)

What is Technology Forecasting? Mention the reasons for Technology Forecasting.

(08 Marks)

b. Explain 'Relevance Tree Technique' of Forecasting with a suitable example.

(12 Marks)

### Module-5

- What is Virtual Product Development? Mention the benefits of Virtual Product 9 Development. (10 Marks)
  - b. Discuss the 3D, CAD system used for Virtual Product Development, also mention its benefits. (10 Marks)

### OR

- What is Product Data Technology? Discuss the classification of Product Data. 10 (10 Marks)
  - Illustrate the Generic Product Structure of a Bicycle. (10 Marks)

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