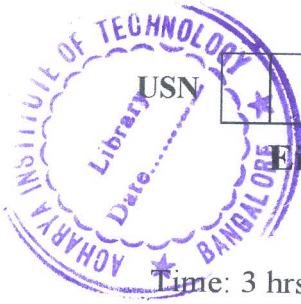


CBCS SCHEME



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17MA831

Eighth Semester B.E. Degree Examination, July/August 2021 Product Life Cycle Management

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Define PLM. List and explain the different phases of Product Life Cycle. (10 Marks)
b. List the opportunities and benefits of PLM. (10 Marks)
- 2 a. What is PLM strategy? Explain the different elements of PLM strategy. (10 Marks)
b. Explain the components of PLM. (10 Marks)
- 3 a. Explain Product design process with flow chart. (10 Marks)
b. Explain strategies for recovery at the end of life. (10 Marks)
- 4 a. Write a short note on :
i) Human factors in product design ii) DFX Techniques used in production phase. (10 Marks)
b. What is Concurrent engineering? List its advantages and disadvantages. (10 Marks)
- 5 a. Define New Product Development [NPD]. What are the needs and benefits of NPD? (10 Marks)
b. Define Building decision support system with all components. (10 Marks)
- 6 a. Explain the concept of implementing new product development. (10 Marks)
b. Discuss on launching and tracking of new product program. (10 Marks)
- 7 a. Define Technological Change. Mention different methods of technology forecasting. (10 Marks)
b. With the help of an example, explain relevance tree technique. (10 Marks)
- 8 a. Write a brief note on : i) Morphological methods ii) Flow diagram. (10 Marks)
b. Briefly explain methods and tools in the Innovation process. (10 Marks)
- 9 a. Define Virtual product development and give classification of it. (10 Marks)
b. Briefly explain about the methods of analyzing Virtual Product Models [VPD]. (10 Marks)
- 10 a. Write a short note on Process Planning and Control. (10 Marks)
b. Define Product configuration process and mention its importance. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.