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	Roll No Total No of Pages: 2
54	7E4064
7E4064	B. Tech. VII Sem. (Main/Back) Exam., NovDec2016 Mechanical Engineering 7ME5 (O) Product Development and Launching
Time: 3	Hours Maximum Marks: 80
	Min. Passing Marks Main: 26
	Min. Passing Marks Back: 24
Instructi	ons to Candidates:
car	empt any five questions, selecting one question from each unit. All questions by equal marks. Schematic diagrams must be shown wherever necessary. Any a you feel missing suitably be assumed and stated clearly.
Un	its of quantities used/calculated must be stated clearly.
	e of following supporting material is permitted during examination. entioned in form No. 205)
1. NIL	2. <u>NIL</u>
	<u>UNIT – I</u>
Q.1 (a)	What do you mean by product development? Discuss the importance of New Product for growth of enterprise. [8]
(b)	How products are classified? Explain the responsibilities for a new product
	development team. [8]
	$\underline{\mathbf{OR}}$
Q.1 (a)	Explain the generic product development process for market pull product. [8]
(b)	Discuss the various general strategies for a New Product Development. Also show the various factors contributing to new product development. [4+4=8]
	<u>UNIT – II</u>
	plain with steps involved in the process of need analysis and describe its portance. [16]

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OR Q.2 Explain in detail engineering statement of a problem and give the concept of target [16]specification and its importance. UNIT - III [8] "Concept generation - A creative process". Explain how? O.3 (a) [8] Discuss any two tools of creativity. OR $[4 \times 4 = 16]$ Q.3 Write short note on: (any four) Concept feasibility (b) Creative thinking process Concept selection (c) Road blocks to creativity (d) Inversion (e) UNIT - IV With an example, explain the detailed design phase of product development. [10] Q.4 (a) Define the term "Product design". What are the essential factors of product (b) [6] design? rtuonline.com OR Define "Ergonomics". How it is important part of product development? [10]Q.4 (a) [6] Explain different steps of preliminary design. (b) UNIT – V [6] Justify the statement "Promotion of Right Culture". O.5 (a) Explain the role of management in launching of a product. Also identify the area (b) [10] of risk in management of a new product. $[4 \times 2 = 8]$ Q.5 Explain any two-(a) Project scheduling Estimation of time and resources (b) Evolution of product launch strategy (c)

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