-	Roll No. :	Total Printed Pages : 2
36	7E4064	•
VUVUL	B.Tech. (Sem. VII) (Main) Examination, J. Mechanical Engineering (7ME5 Product Development & Laur	SERVE SINOS
Time	e:3Hours]	[Total Marks : 80 [Min. Passing Marks : 24
unit sho	Attempt overall five questions selecting of All questions carry equal marks. (Schown wherever necessary. Any data you assumed and stated clearly. Units of controls of controls of controls of controls of controls.	teniatic diagrams must be feel missing may suitably tuantities used / calculated
Use	of following supporting material is permitted	during examination.
(Mei	ntioned in form No. 205)	
1. <u></u> .	2. UNIT - I	Nil
1	What the pre-requisites for new product product development team help in it?	ct development? How does
	OR	
i .	Write brief notes on .  (a) Market pull products  (b) Customized products  (c) Platform based products.	6,5,5
	UNIT - II	
2	How is need-analysis done for a new peristence of need?	roduct? What is economic
	TO THE PROPERTY STATE AND	. 16
	OR	)

2

statement of problem.

Describe methods to identify a need. Also describe engineering

[Contd...

16

## UNIT - III

3	Write briefly on:
	(a) Brain storming
	(b) Analogy
	(c) Inversion. — 5,5,
	OR
•	
•.	Explain the procedure to carry out concept feasibility and concept selection.
	10
	• · · · · ·
	UNIT - IV
4	(a) What factors influence the identification of subsystems
	(b) Explain different requisites for preparing an, assembly drawing.
	· _
	$\cdot$ OR
4	Write briefly on
10.00	(a) Design compatibility.
	(b) Ergonomics and aesthetics. 8.8
	(b) Digonomics and aesthetics.
	UNIT - V
5	Explain the composition and role of various components in design
	team staffing and organization
	16
	OR
5	Write briefly on:
	(a) Project Task matrix
	(h) Project Scheduling. 8.8
	•