Printed Page: 04  Subject Code:- AME0614  Roll. No:	
NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA	
(An Autonomous Institute Affiliated to AKTU, Lucknow) B. Tech	
SEM: VI - THEORY EXAMINATION (2022-2023)	
Subject: Product Lifecycle Management	
Time: 3 Hours Max. Marks: 10	00
General Instructions:	
<b>IMP:</b> Verify that you have received the question paper with the correct course, code, branch etc.	
1. This Question paper comprises of three Sections -A, B, & C. It consists of Multiple Choice (MCO/s) & Subjective true properties as	ce
Questions (MCQ's) & Subjective type questions.  2. Maximum marks for each question are indicated on right -hand side of each question.	
3. Illustrate your answers with neat sketches wherever necessary.	
<b>4.</b> Assume suitable data if necessary.	
<b>5.</b> Preferably, write the answers in sequential order.	
6. No sheet should be left blank. Any written material after a Stank sheet will not	be
evaluated/checked.	
SECTION A 2	20
1. Attempt all parts:-	
1-a. What is the producer's strategic objective at the startup and production stage	1
of the product life cycle? (CO1)	
(a) cash flow and profit.	
(b) profit.	
(c) sales growth.	
(d) all of the above.	
1-b. The life cycle of a product includes (CO1)	1
(a) extraction of natural resources	
(b) processing of raw materials	
(c) manufacturing of products	
(d) all of the mentioned	
1-c. In the literature of product life cycle management, the term market risk refers to (CO2)	1
(a) lost sales related to deferring investments.	

(b) lost sales related to making unprofitable investments.	
(c) losses related to declining market share for companies that are technological leaders.	no
(d) losses related to research and development costs.	
In a prototype model, working of a system built until an acceptable prototype is achieved. (CO2)	1
(a) System	
(b) Prototype	
(c) Engineering	
(d) None of the mentioned above	
Procurement methods have considerable impact on (CO3)	1
(a) product pricing	
(b) inventory level	
(c) warehouse space	
(d) transportation modes	
If the user is not happy with the current prototype, it needs to the prototype.(CO3)  (a) Redefine (b) Define (c) Design (d) None of the mentioned above  In the formula of Economic Order Quantity, the alphabet 'O' stands for(CO4)	1
<ul><li>(a) Ordering level</li><li>(b) Ordering Cost</li><li>(c) Ordering Cost &amp; Carrying cost</li><li>(d) None of the above</li></ul>	
Cause and effect diagram is also known as(CO4)	1
(a) Fishbone diagram	
(b) Fish diagram	
(c) Cause diagram	
(d) Effect diagram	
ERP refers to(CO5)	1
	(c) losses related to declining market share for companies that are technological leaders. (d) losses related to research and development costs.  In a prototype model, working of a system built until an acceptable prototype is achieved. (CO2)  (a) System (b) Prototype (c) Engineering (d) None of the mentioned above  Procurement methods have considerable impact on (CO3)  (a) product pricing (b) inventory level (c) warehouse space (d) transportation modes  If the user is not happy with the current prototype, it needs to the prototype.(CO3)  (a) Redefine (b) Define (c) Design (d) None of the mentioned above  In the formula of Economic Order Quantity, the alphabet 'O' stands for

	(a) Efficient Resource Planning	
	(b) Enterprise Resource Planning	
	(c) Engineering Resource Planning	
	(d) Effective Resource Planning	
1-ј.	Organisations are mainly concerned with managing (CO5)	1
	(a) Pure Risks	
	(b) Speculative risks	
	(c) Personal risks	
	(d) none of above	
2. Atte	empt all parts:-	
2.a.	What is family table? (CO1)	2
2.b.	What is PLM components? (CO2)	2
2.c.	What is the first step in the strategy making process? (CO3)	2
2.d.	What is the aim of occupational health? (CO4)	2
2.e.	What is a hazard? (CO5)	2
	SECTION B	30
3. Ans	wer any <u>five</u> of the following:-	
3-a.	What is the importance of Life cycle Model? (CO1)	6
3-b.	What are the difference between PLM and other enterprise system? (CO1)	6
3-с.	What are the benefits of PLM/in manufacturing? (CO2)	6
3-d.	What is Debugging in windchill? (CO2)	6
3.e.	write a short note on connector and router robot (CO3)	6
3.f.	Explain the types of Quality Management System. (CO4)	6
3.g.	What is Risk Appetite and Risk Tolerance? (CO5)	6
	SECTION C	50
4. Ans	wer any <u>one</u> of the following:-	
4-a.	Explain Design Development Stages. (CO1)	10
4-b.	Explain Design Development , validation and Production. (CO1)	10
5. Ans	wer any <u>one</u> of the following:-	
5-a.	What is validation? What are the two types of validation? (CO2)	10
5-b.	What is Problem report, change request and change notice in windchill? (CO2)	10
6. Ans	wer any <u>one</u> of the following:-	

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б-а.	What is the impact on the organization of developing a strategy for PLM? (CO3)	10
6-b.	Describe change management for PLM. (CO3)	10
7. Answ	er any <u>one</u> of the following:-	
7-a.	Discuss about the need, types, construction, and applications of control charts. (CO4)	10
7-b.	what is main function of customization? How can we customize a table in windchill? (CO4)	10
8. Answ	er any <u>one</u> of the following:-	
8-a.	What do you mean by budget uncertainty? How risk is managed in projects? (CO5)	10
8-b.	Explain the technique of 'Risk Measurement, 'Risk Evaluation' and 'Risk Prediction' for natural disasters (CO5)	10
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