

# Designing Questions

**Course Name and Code : New Product Design and Development (OE 3301)**

**Class and Div. : Final Year**

**Department : Mechanical Engineering**

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# Purpose and Motivation

1. Enhance critical thinking skills
2. Foster problem-solving abilities
3. Stimulate curiosity and inquiry
4. Prepare for real-world scenarios
5. Promote collaboration and teamwork
6. Encourage active participation
7. Improve retention and understanding
8. Increase engagement and interest
9. Align with modern teaching methodologies

# Suitability of Technique to course

1. Application-oriented learning
2. Critical thinking and problem-solving
3. Encourages curiosity and exploration
4. Active engagement and collaborative learning
5. Concept retention
6. Student-centered learning
7. Writing skills
8. Alignment with modern pedagogy

# Procedure of Technique

1. Content was covered
2. Students were asked to pair with one classmate for this activity with whom he could meet and discuss the various questions outside the class and come up with one higher order question. (2 min)
3. In the next class, students were asked to read the question loudly, which reflected their understanding of the content. (9 min)
4. Those pairs that had similar questions were exempted from announcing it to save time.
5. At the end, a quick oral feedback was taken to decide the best question. (1 min)

## Outcomes of Technique

Unit Test 01 Average Marks=16.72

Unit Test 02 Average Marks=19.47

Students become comfortable about the topic because they thought then, they know what are the different questions can be asked in exam.

Students were very enthusiastic to tell their questions.

**Difficulties:** Few pairs were unable to frame questions properly and few pairs could not prepare the higher order (BT) questions.

# Photographs and Student Response



<b>Q.1</b>	Elaborate the stages of technology <b>'S' Curve</b> with suitable recent example.	BTL01 and BTL03	<b>06</b>
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<b>Q.1</b>	In the context of the technology 'S' curve, discuss the potential challenges and opportunities that arise during different stages of technological innovation. How can understanding this curve help businesses and individuals navigate the evolving landscape of technology? Feel free to explore various aspects, such as early adoption, rapid growth, market saturation, and technological obsolescence, while discussing the implications for businesses, industries, and individuals.	BTL05	<b>08</b>
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THANK YOU!!!!