

SPM; TT#1; 2024; Time: 30 min; Marks: 10

Marks

- ✓ 1. What is contract management?
- ✓ 2. What is a Product Breakdown Structure (PBS)? Show the hierarchical diagram of a sample PBS.
- ✓ 3. What are the activities covered by project management? Explain.

TT#01

Marks: 20

Course: Human Computer Interaction (SWE 431)

Time: **30 mins**

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1. Explain the HCI principle "Reduce Memory Load" and provide scenario-based examples to illustrate its application in user interface design. **8**
 2. Explain briefly what you understand by the term "gulf of execution/evaluation"? **4**
 3. What defines multimodal interaction, and why should system designers consider implementing it? **8**

TT#01

Course: Information and Network Security (SWE 429)

Marks: 16

Time: **30 mins**

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1. What are the differences between Access Control Metrics and Access Control Lists of Access Control Models? (04)
 2. What is Digital Signature? Briefly state the steps in producing digital signatures. (04)
 3. What is a "cryptosystem"? (04)
 4. Briefly describe the goals of "Security". (04)

TT#01	Computer Graphics and Image Processing (SWE 335)	
Marks: 10		Time: 25 mins

- ✓ 1. What does Rasterization mean? 1
 - ✓ 2. We have a 1024 x 768 inch image at a resolution of 300 PPI, what would be the pixel count of that image? 1
 - ✓ 3. Briefly explain the concept of octant symmetry used in the Midpoint Circle Algorithm. 2
 4. Indicate which raster locations would be chosen by the Midpoint Circle Algorithm when scan-converting a circle for the given equation of: 6
- $$(x - 15)^2 + (y - 10)^2 = 60$$