



Shri Vile Parle Kelavani Mandal's

**DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING**

(Autonomous College Affiliated to the University of Mumbai)

NAAC Accredited with "A" Grade (CGPA : 3.18)



**Academic Year (2021-22)**

**Year: 3 Semester: VI**

**Program: B. Tech. (Computer Engg.)**

**Subject: Human Machine Interaction**

**Date: 07/07/2022**

**Max. Marks: 75**

**Time: 10:30 am to 1:30 pm**

**Duration: 3 hrs**

**REGULAR EXAMINATION**

**Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover page of the Answer Book, which is provided for their use.**

- (1) This question paper contains 2 pages.
- (2) **All Questions are Compulsory.**
- (3) All questions carry equal marks.
- (4) **Answer to each new question is to be started on a fresh page.**
- (5) **Figures in the brackets on the right indicate full marks.**
- (6) **Assume suitable data wherever required, but justify it.**
- (7) Draw the neat labelled diagrams, wherever necessary.

Question No.		Max. Marks
Q1 (a)	Explain Norman's fundamental principles of interaction	[05]
	<b>OR</b>	
	Explain "Human errors" in HMI.	[05]
Q1 (b)	Explain seven stages of action. What are the three levels of processing?	[10]
Q2 (a)	Differentiate between GUI and Web Design interface	[10]
	<b>OR</b>	
	Explain Iterative design and prototyping in detail. What is Design Rationale?	[10]
Q2 (b)	Discuss the advantages of good Graphical User Interfaces (GUI)	[05]
Q3 (a)	Discuss how colors can be used to design the user interfaces	[05]
Q3 (b)	Design a UI for Picnic Planner	[10]
	<b>OR</b>	
	Design a UI for 'Cleanliness Drive Awareness Campaign'	[10]
Q4 (a)	Illustrate Mobile 2.0	[08]
	<b>OR</b>	
	List and explain briefly the qualities of a Visually Pleasing Composition	[08]
Q4 (b)	Explain typical human computer Interaction Speed with example.	[07]



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Q5 (a)	Describe all factors of Interface Design. Provide innovative Web Application by integrating the technologies that are used in Interface Design. <b>OR</b> Explain in detail Mobile Information Architecture	[10]  [10]
Q5 (b)	Discuss different types of statistical graphs	[05]

All the Best!