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Question Paper Code: U3F05

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

Third Semester

Computer science and Design

21UCD305- DESIGN THINKING

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (10x 2 = 20 Marks)

1. How can we effectively use the visualization tool in design thinking process? CO1- U
2. What are the values of a design thinking process? CO1- U
3. What is empathy and why is it so important? CO1- U
4. What makes a good problem statement? CO1- U
5. What is a prototype? CO1- U
6. List out the uses of prototypes. CO1- U
7. Define a design process. CO1- U
8. Write a note on the roles of a usability engineer. CO1- U
9. Expand the term: CAPTCHA and write its uses. CO2- App
10. Mention the uses of audio menus. CO2- App

PART – B (5 x 16= 80Marks)

11. (a) Write notes on Maslow's hierarchy of needs in detail. CO1-U (16)
Or
(b) Explain the tools used for 'what is' and 'what works' questions. CO1-U (16)
12. (a) Explain the key empathy building methods in detail. CO1-U (16)
Or
(b) Write notes on the define stage in detail. CO1-U (16)

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| 13. | (a) | Explain the prototyping phase in detail. | CO1-U | (16) |
| | | Or | | |
| | (b) | Give a brief explanation of the Eight Golden Rules of Interface Design. State an example you have seen on a device, computer interface, or web site that violates those rules. | CO1-U | (16) |
| 14. | (a) | Describe the concepts of design frameworks | CO1-U | (16) |
| | | Or | | |
| | (b) | Describe the design methods used in design process. | CO1-U | (16) |
| 15. | (a) | Explain the three principles used for direct manipulation | CO1- U | (16) |
| | | Or | | |
| | (b) | Write notes on 2D and 3D interfaces. | CO1- U | (16) |