**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **4BT7136** | Roll No. | Total Printed Pages: 2 |
| **4BT7136** |  |
| B. Tech. IV Year VII- Semester (Main/Back) End Semester Examination, November 2022  **(CE)** | |
| **BCE07102 : User Interface Design** | | | |

# Time: **3** Hours. Total Marks: **60**

Min. Passing Marks: **21**

Attempt **five** questions selecting one question from each Unit. There is internal choice from Unit I to Unit V. Marks of each question or its parts are indicated against each question / parts. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Use of following supporting material is permitted during examination for this subject.

# **1.--------------------------Nil--------------------** **2.------------------Nil-----------------------**

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|  |  | **UNIT-I (CO1)** | **Marks** | **Bloom Level** |
| **Q.1** | **(a)** | Discuss UX and UI. What is the difference between UX and UI? | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  | **(b)** | Explain the user interface designing process with a suitable diagram and also describe why UI is needed. | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.2** | **(a)** | Define Use Case. Explain User Centred design. How Use Case makes easier the design process? | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Discuss the importance of the user interface, what are the limitations of the user interface. | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** | **(a)** | Implement the paper Prototype, and explain the used terms in the paper prototype. | **(6)** | **Apply** |
|  |  |  |  |  |
|  | **(b)** | Define wireframe. List out the wireframing tools and also mention the use of these tools. | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.4** | **(a)** | Explain sketching in brief. | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Mukesh wants to build a website on hospital management. Help him to develop a good website by creating a use case diagram for hospital management. | **(6)** | **Create** |
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|  |  | **UNIT-III (CO3)** |  |  |
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| **Q.5** | **(a)** | Define Android. Discuss Android design. What is the difference between Web design and Android design? | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  | **(b)** | Differentiate between Logging, tracing, and monitoring with a suitable example of each. | **(6)** | **Analyze** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.6** | **(a)** | List out the features of Android. Pankaj wants to develop an Android application for the student login portal at Poornima University, what features he should add to this application? | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  | **(b)** | Discuss participatory design. Describe briefly what it involves. | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **UNIT-IV (CO4)** |  |  |
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| **Q.7** | **(a)** | Define Reusability, Accessibility, and Performance, how these terms are related to each other? Explain. | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  | **(b)** | Explain the web design process in brief. Enlist the components needed in web design. | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.8** | **(a)** | Differentiate in Windows PowerShell, between a function and an “Advanced Function”? | **(6)** | **Analyze** |
|  |  |  |  |  |
|  | **(b)** | Implement code to examine 4 Format Commands that can be used to format data. | **(6)** | **Analyze** |
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|  |  | **UNIT V (CO5)** |  |  |
|  |  |  |  |  |
| **Q.9** | **(a)** | Explain Quantitative Research. List out the characteristics of Quantitative Research. | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  | **(b)** | Explain logging, A/B Testing and give a real-world example where we can apply A/B testing. | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | Explain Field and Diary study. | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  | **(b)** | Explain descriptive research. Write the differences between Quantitative Research and descriptive research. | **(6)** | **Understand** |