Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov/Dec – 2018**

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| **Code :** | **14CS2020** | **Duration :** | **3hrs** |
| **Sub. Name :** | **FUNDAMENTALS OF HUMAN COMPUTER INTERACTION** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Construct the interactive system which can be used to control various functionalities of smart house, the control methods should have different approach based on the principles of interactive system. | CO1 | 20 |
| (OR) | | | | |
| 2. | a. | State the gulf of evaluation. | CO1 | 5 |
| b. | Classify the various input event in the human interaction system. | CO1 | 5 |
| c. | Explain the method “how the code for each event is executed”. | CO1 | 10 |
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| 3. |  | Develop the layout design for the online quiz system with interactive option and explain which layout is suit for this application . | CO3 | 20 |
| (OR) | | | | |
| 4. | a. | Design the interaction application which have multiple views with different view control. | CO3 | 10 |
| b. | Consider following container widget with three child widget.  Top M  Left M  A  Long Top  C  B  Long Left  Bot M  Essential attributes of container widget and child widget are given. Derive the formula to find the following attributes of child widget using fixed layout constraints and edge anchored layout constraints.  Right M  i) A.left ii) A.right iii) B.left iv) B.right v) A.top vi) A.bot vii) B.top viii) B.bot | CO3 | 10 |
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| 5. | a. | What is the difference between internationalization, globalization and localization? | CO1 | 5 |
| b. | List out the issues related to localization in interface design. | CO1 | 5 |
| c. | Differentiate mouse event diagram, State machine diagram, and Production rules and also analyze which one is suitable for dealing with multiple task input events in an interface at a time. | CO3 | 10 |
| (OR) | | | | |
| 6. |  | Assume you are developing an interface with 2D geometric shapes, How will you solve the problems like scan conversion, nearest point on shape, distance bounding box? Justify your answer with solutions | CO2 | 20 |
|  |  |  |  |  |
| 7. | a. | Discuss the method of evaluating text input. | CO2 | 10 |
| b. | Identify three handheld computing device and compare their text entry techniques. | CO2 | 10 |
| (OR) | | | | |
| 8. | a. | State the selection theory laws. | CO1 | 8 |
| b. | Explain the various window styles methods used in display space management. | CO3 | 12 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Elaborate the working mechanism of web interaction and explain how we can enhance web interaction with online application web application. | CO2 | 20 |