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B.C.A. (Semester v)
EXAMINATION NOVEMBER 2022
Computer Science Elective
Human Computer Interaction

[Duration : Two Hours]

[Total Marks :60]

Instructions : 1) All questions are compulsory. However internal choice is available.
 2) Figures to the right indicate full marks.

1. A. Answer the following: (5x1=5)
 - i) "A multi-modal interactive system is a system that relies on the use of multiple human communication channels." True or false?
 - ii) What is an agent-based interface?
 - iii) Name an input device that is capable of giving input to a computer by moving one's eyes.
 - iv) What is a licensed mobile platform?
 - v) What is direct selection in web interfaces designing?
- B. Answer the following: (5x1=5)
 - i) Who are secondary stakeholders?
 - ii) Define persona.
 - iii) Give the full form of GOMS.
 - iv) Give an example of a mobile widget.
 - v) What is virtual scrolling?
2. A. What is inductive reasoning? Give an example. (02)
 B. List and explain any 3 positioning, pointing and drawing devices. (03)
 C. Explain Configurator process flow with an example of your choice. (05)
3. A. Name any two human senses that are used for interacting with a computer. (02)
 B. What is a virtual reality helmet and how does it work? (03)
 C. Explain the three-state model for a light pen with a neat and labeled diagram. (05)
4. A. State any two types of overlays. (02)
 B. What is a metaphor? Give any two examples. (03)
 C. Explain the socio-technical methodology CUSTOM. (05)
5. A. What is a native mobile application? (02)
 B. Differentiate between HTML prototype and paper prototype. (03)
 C. Explain the different patterns used for supporting virtual pages. (05)

6. **A. Name any 2 types of display devices. (02)**
 B. Explain in short any three tools for designing the screen layout of an application. (03)
 C. Compare a good site map with a poor site map using a suitable example and site map diagrams. (05)