PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION DECEMBER 2022
(First Semester)

Branch – **COMPUTER SCIENCE**

HUMAN COMPUTER INTERACTION

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (5 x 1 = 5)

1 How do you identify the user in the usability engineering life cycle?
   (i)   run a thinking aloud test
   (ii) assume the role of an apprentice learning from the master craftsman
   (iii) observe representative users
   (iv) draw up a user profile

2 Which of the following is not a characteristic of direct manipulation interfaces?
   (i)   Visibility of the objects and actions of interest
   (ii) Menu selection and form fill-in
   (iii) Rapid, reversible, incremental actions
   (iv) Replacement of typed commands by a pointing action on the object of interest

3 Indicate the number of pixels available in displays?
   (i)   A Physical dimension   (ii) Resolution
   (iii) Power consumption   (iv) Reliability

4 The golden rule of design is _____.
   (i)   understand your materials   (ii) understand computers
   (iii) understand people   (iv) All of the above

5 What are web analytics?
   (i)   web-based methods for performing analysis of video records and electronic logs of user interaction
   (ii) online methods for performing usability tests through the cloud
   (iii) online methods for analysing and visualizing patterns of visiting a website, viewing
   (iv) web-based methods for performing statistical analysis of data, using tools such as spss

SECTION - B (15 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks   (5 x 3 = 15)

6 a Classify the applications and interfaces involved in Usability.
                         OR
   b Write short notes on Usability guidelines.

7 a Write a note on Survey Instruments.
                         OR
   b Write about Acceptance test in an Interface design.

8 a What is mean by an Augmented reality? Explain.
                         OR
   b Write a brief note on an Audio Menus.

9 a   Explain the various Pointing devices.
OR
    b   Write about Asynchronous Distributed Interfaces.

10 a   Explain the Error Messages in detail.
OR
    b   Write short notes on Window Design.

SECTION -C (30 Marks)
Answer ALL questions
ALL questions carry EQUAL Marks   (5 x 6 = 30)

11 a   List out the different between Personality and Cultural Usability.
OR
    b   Write in detail about the Usability Theories.

12 a   Explain the Development methodologies& Ethnographic observation.
OR
    b   Write about Survey instruments in design.

13 a   Explicate the various examples of Direct Manipulation in detail.
OR
    b   Discuss the combinations of Multiple menus in detail.

14 a   What is your understanding about Speech and Auditory interface? Explain.
OR
    b   Explain the Synchronous Distributed Interfaces in details.

15 a   What is meant by display design? Explain.
OR
    b   Explain the Web Page design and Window design.

Z-Z-Z   END