

(FOR THE CANDIDATES ADMITTED

22UAI6E7

DURING THE ACADEMIC YEAR 2022 ONLY)

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : MAY 2025

B.Sc. CS with AI &ML(SF)

MAXIMUM MARKS: 50

SEMESTER-VI

TIME : 3 HOURS

PART – III

22UAI6E7-DATA VISUALISATION

SECTION – A

(10 X 1 = 10 MARK)

ANSWER THE FOLLOWING QUESTIONS. (K1)

1. Data visualization is also an element of the broader
 - a) data process architecture
 - b) data presentation architecture
 - c) deliver presentation architecture
 - d) data delivery architecture
2. What are the limitations of human vision in the context of data visualization?
 - a) Unlimited memory and spatial awareness
 - b) Limited attention span and color perception variability
 - c) High tolerance for dense information
 - d) Ease of multitasking and consistent color perception
3. What is Geospatial data?
 - a) Geographic data
 - b) Funeral data
 - c) Time serious data
 - d) colonial data
4. Norman's model of interaction also called _____
 - a) execution evaluation model
 - b) execution model
 - c) evaluation model
 - d) user interface model
5. What is virtual reality?
 - a) A type of video game
 - b) A technology that creates immersive, computer-generated environments
 - c) A form of augmented reality
 - d) A virtual chat room

(CONT...2)

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. What is derived data?
7. What is Brushed Histogram?
8. What is flipping on data visualization?
9. Define sketching?
10. Write a note on Tactile maps?

SECTION – B

(5 X 3 = 15 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) What are the design challenges of Data?
(OR)
b) Explain the navigation Link in detail.
12. a) Describe Iconic Representation and its types.
(OR)
b) Illustrate on overview about Lightness, Brightness, Contrast and Color in data representation.
13. a) What is Retinal Image? Explain.
(OR)
b) Describe the Geometric and Semantic of Zoom.
14. a) Interpret the Involuntary Interaction in detail.
(OR)
b) How to design a light Bulb? Explain it.
15. a) Summarize how to integrate Spatial and Non spatial Data.
(OR)
b) Discuss about the communication analysis in Data Visualization.

SECTION – C

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)

16. a) Explain the data representation in detail.
(OR)
b) Describe the limitations of data representation.
17. a) Describe about the different type of data in detail.
(OR)
b) Summarize the different type of data available in data representation.
18. a) Describe the temporal consideration of data representation.
(OR)
b) How a data can be represented in space and time? Explain.
19. a) Explain on Norman's Action Cycle in detail.
(OR)
b) Describe about the Navigation on Interaction and Design.
20. a) Illustrate the steps to design a small interactive calender.
(OR)
b) Infer the ways to select one data for many in data representation.