

Course No: TMUL 4317

Course Title:

Data Visualization

Date: 09/01/2019

No. of Questions: 3

Time: 2 hours

Using Calculator (NO)

Using Dictionary (No)

University of Palestine



Final Exam

First semester

2019/2018

Total Grade: 30

Instructor Name: Mr.

AsaadAltayyan

Student No.: _____

Student Name: _____

College Name: _____

Section No.: _____

Dep. / Specialist: _____

First Question :True or False: (5 marks)

1. _____ Selection, rearrange view, change representation, filtering, and zooming are interaction techniques.
2. _____ Graphics are used to model complex systems and to visualize relationships.
3. _____ Visual data mining techniques have proven to be of particularly high value in presentation data analysis.
4. _____ Micromaps is a way for displaying social networks referenced data.
5. _____ Even though 3D objects in a diagram may be more effective in some cases, care should be taken to provide a good 2D layout.
6. _____ A visual object provides a useful metaphor (symbol) for encapsulation and cohesiveness, both important concepts in defining modular systems.
7. _____ Visualization allows the perception of emergent properties that were not anticipated (expected).
8. _____ Visualization meant constructing a visual image in the mind to mean something more like a graphical representation of data or concepts.
9. _____ One of the greatest benefits of data visualization is the sheer (big) quantity of information that can be rapidly interpreted if it is presented well.
10. _____ Simplified line drawings may be most appropriate only when rapid responses are required.

Second Question :Choose the more correct answer: (25 marks)

Q1: When you have a Bar Chart, what are the bad things that you may find, describe three only? (2 Marks)

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Q2: Describe the following visual object terms, draw some examples: (4 Marks, 2 for each)

1. Geons:

2. Silhouettes:

Q3: Distinction between Recognition and Recall. (2 Marks)

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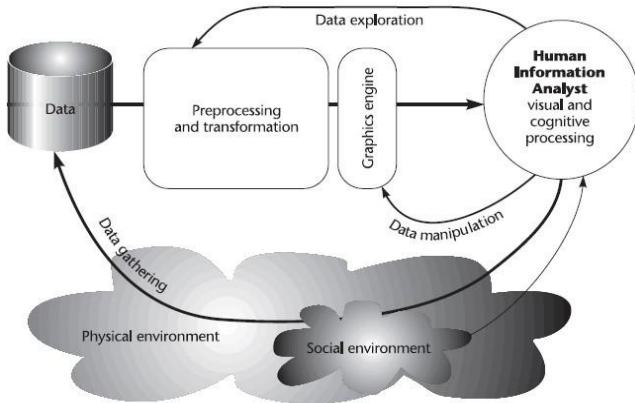
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Q 4: Based on the figure below, describe the visualization stages. (3 Marks)



Q 5: Distinction between “Exploratory Graphics” and “Presentation Graphics”. (3 Marks)

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Q6: Give an example for each chart type (visualize your example). (3 Marks)

1. Pie Chart

2. Bubble Chart

3. Bar Chart

Q7: List and describe the types of memories. (3 Marks)

Q8: What is “MicroMaps”.(2 Marks)

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Q9 List of Advantages of visualization ? (2 marks)

Q10 what is Volume Rendering ? (1 marks)

Good Luck