



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2019/2020**

COURSE NAME : GEOGRAPHICAL INFORMATION SYSTEM
COURSE CODE : BPF 43103
PROGRAMME CODE : BPD
EXAMINATION DATE : DECEMBER 2019 / JANUARY 2020
DURATION : 2 HOURS 30 MINUTES
INSTRUCTION : ANSWER ALL QUESTIONS

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THIS QUESTION PAPER CONSISTS OF **TWO (2)** PAGES

- Q1** The field of geographic information systems (GIS) started in the 1960s when computers, early concepts of quantitative and computational geography emerged.
- (a) List **FIVE (5)** components of GIS. (5 marks)
- (b) Explain with examples, **FOUR (4)** applications of GIS. (20 marks)
- Q2** Data view is an all-purpose view for exploring, displaying, and querying the data on your map.
- (a) Discuss **THREE (3)** types of data view in GIS. (15 marks)
- (b) In GIS, there are few types of data structures.
Explain with examples, **TWO (2)** mostly adapted data structures in GIS. (10 marks)
- Q3** Faulty or biased field work, map digitizing errors and conversion, and scanning errors can all result in inaccurate maps for GIS projects.
- (a) Discuss the differences between accuracy and precision in GIS analysis. (10 marks)
- (b) Explain **THREE (3)** examples on how geography could be important in decision making concept. (15 marks)
- Q4** Data integration involves combining data residing in different sources and providing users with a unified view of these data.
- (a) Discuss how integration and visualization in GIS could help the locational characteristics modelling concept. (10 marks)
- (b) GIS organizes the information about layers.
Explain with appropriate diagram on how layers could help modelling a phenomenon. (15 marks)

- END OF QUESTIONS -

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