

Data Processing  
7090

CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

JUNE 2016

ADVANCED LEVEL

Subject Title	Data Processing
Paper No.	2
Subject Code No.	7090

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**Two and a half hours**

Answer all questions in **Section A** and any **Three** questions in **Section B**.

All questions carry equal marks. You are advised to read carefully through the question paper, before you begin your answers.

You are reminded of the necessity for good English and orderly presentation in your answers.

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## SECTION A:

Answer all questions in this section. All questions carry equal marks.

1. Carefully study the Figure below and answer the questions that follow.



Figure 1

- (i) What is the name of the current database? (1 mark)
- (ii) Carefully complete the number of open objects in the table below.

Object Name	Object Type	Number Open

(6 marks)

- (i) How many records are found in the currently selected object? (1 mark)
- (ii) Which letter would you press from your keyboard in order to view or modify the relationships in this database? (1 mark)
- (iii) What is the current view type of the actively selected object? (1 mark)
- (iv) Write down the selected record number of the currently selected object. (1 mark)
- (v) How many Fields are clearly visible in the currently selected object? (1 mark)
- (vi) Write down the total number of objects in the current database. (1 mark)
- (vii) Write down the name of the actively selected field in the current object. (1 mark)
- (viii) Which Menu would you use to import data from a spreadsheet application? (1 mark)
- (ix) State Three functions of this type of application in the figure above. (3 marks)
- (x) Apart from the current version of this application shown above, name any two other type of application versions that are also existing in the market. (2 marks)

(Total: 20 marks)

2. Jonas wants to buy a PC where he can successfully carry out the following tasks.

- Download music
- Watch videos
- Play computer games
- Communicate with friends

(a) Jonas has been advised that in order to complete these tasks he will need a PC with a fast processor and a large amount of RAM.

(i) Name the units used to measure the speed of a computer processor. (2 marks)

(ii) Explain four reasons why Jonas has been advised to buy a computer with a large amount of RAM. (4 marks)

(iii) Jonas has selected a high resolution monitor. Identify another item of hardware that would enhance the viewing experience. (2 marks)

(b) Jonas will have applications software installed on his computer. Identify **one** other type of software that **must** also be installed to run the applications. (1 mark)

(c) Jonas buys a computer game. This includes a software license. Explain three purposes of a software license. (3 marks)

(d) Jonas communicates with his friends using an internet chat room.

(i) Identify **two** other methods of communicating over the internet. (2 marks)

(ii) There are risks involved when using the internet to communicate. Identify **three** precautions Jonas should take to help him stay safe. (3 marks)

(e) Jonas can watch videos from the internet by streaming or downloading them onto his computer. Discuss the advantages and disadvantages of **each** method. (4 marks)

(Total = 20 marks)

## SECTION B

Answer any three questions in this section.

3. (a) Expand and differentiate between **http** and **ftp** as used on the Internet today. (4 marks)
- (b) Instant Messaging is becoming the most popular way of communicating today than Electronic Mail.  
 (i) State three ways in which instant messaging is different from E-mail. (3 marks)  
 (ii) Explain three ways in which the two services above have impacted on the social and business life of the modern society. (6 marks)  
 (iii) State Four devices that are commonly used for both Instant Messaging and E-mail. (4 marks)
- (c) State three important things that are a risk to your privacy and personal security in a social media or online community. (3 marks)
- (Total: 20 marks)**
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4. Protecting Information Systems and the data is a major concern for any organization. Discuss the aspects of system security and data security that an organization needs to consider with reference to the following:
- (a) Risk analysis (5 marks)  
 (b) Security policy (5 marks)  
 (c) Audit requirements (5 marks)  
 (d) Disaster recovery management (5 marks)
- (Total: 20 marks)**
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5. (a) Many organizations employ a Health and Safety Officer to enforce Health and safety Legislation for all users of their ICT systems. Give four ways that this officer could help to ensure that health and safety legislation is being enforced. (4 marks)
- (b) There are a number of social, moral and ethical issues associated with the introduction, and use, of ICT systems. Some of these issues may possibly be covered in an organisation's ICT Code of Practice. Describe four issues that could affect an ICT professional with regards to the areas mentioned above. (4 marks)
- (c) Any personal data that an organisation holds on a computer about its employees, or its customers, is covered under Data Protection legislation. Describe three methods by which a company can ensure that the requirements of Data Protection legislation are respected. (6 marks)
- (d) There are health risks associated with using a workstation regularly. For each of the following health risks, identify one piece of equipment that is part of a workstation and describe how a specialised feature of it could help to protect you from the given health risk. The equipment given must be different in each case.  
 (i) Eye strain (3 marks)  
 (ii) RSI (3 marks)
- (Total = 20 marks)**

6. (a) Spreadsheet packages allow users to format the contents of cells.  
State any four types of formatting that can be used to format the contents of cells. (4 marks)
- (b) Carefully identify the type of software, giving an example each that would normally be used for the following tasks?
- (i) Creating a directory, or folder, on a computer. (2 mark)
  - (ii) Managing a company's stock and inventory. (2 mark)
  - (iii) View updates from a company's website. (2 mark)
  - (iv) Prepare a sales invoice for an organisation. (2 mark)
- (c) Using an example, explain what is meant by
- (i) a data processing system; (2 marks)
  - (ii) an information system. (2 marks)
- (d) (i) Most mobile phones make use of a menu driven interface.  
Give two benefits of a menu driven interface for mobile phone users. (2 marks)
- (ii) State two other types of user interfaces and give a suitable software example for each one. (2 marks)
- (Total = 20 marks)**
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7. (a) An operating system is a collection of routine programs that facilitate the use of a computer and related digital devices. Without a functioning operating system, your digital devices or computer's resources both hardware and software would be valueless.
- (i) Explain four uses of an operating system. (4 marks)
  - (ii) Elaborate with one example each the difference between WIMP Operating System and a TUI Operating System. (4 marks)
  - (iii) Identify three common operating systems for digital devices or smart phones (3 marks)
- (b) Modern Project management entails managing and controlling the process required to achieve safe and timely completion of a project within a projected cost while maintaining the required standards.
- (i) Sort and explain three advantages of team work in a project. (3 marks)
  - (ii) Elaborate on any two actions that a project manager might take to motivate a project team to attain both general and specific goals. (4 marks)
  - (iii) Sort out any two steps that a project manager should undertake to finalize and hand over a project. (2 marks)
- (Total = 20 marks)**
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