INSTRUCTIONS

1. You are allowed 15 minutes reading time before the examination begins during which you should read the question paper and, if you wish, make annotations on the question paper. However, you are not allowed, under any circumstances, to open the answer book and start writing or use your calculator during this reading time.

2. Number of questions on paper - 7.

3. Answer any five questions.

4. Each question carries 20 marks.

5. Begin each answer on a fresh page.

6. **DO NOT OPEN THIS PAPER UNTIL YOU ARE INSTRUCTED BY THE INVIGILATOR.**

This question paper contains 4 pages.

This question paper must not be removed from the examination hall.
1. (a) Define the following terms:

(i) master file 3 Marks
(ii) key field 2 Marks

(b) Mention any three fields that would be used in the following records:

(i) employee payroll record 3 Marks
(ii) order record 3 Marks
(iii) payment record 3 Marks
(iv) purchase order record 3 Marks
(v) warehouse receipt record 3 Marks

(TOTAL : 20 MARKS)

2. (a) (i) Describe an online processing system. 5 Marks
(ii) Describe a batch processing system. 5 Marks

(b) When do online systems process as a batch system? 5 Marks

(c) Describe the differences in the information derived from online and batch systems. 5 Marks

(TOTAL : 20 MARKS)

3. (a) With reference to information and information systems, describe the following:

(i) Security 3 Marks
(ii) Data integrity 3 Marks
(iii) Systems integrity 3 Marks
(iv) Contingency 3 Marks

(b) Describe two examples that should be put in place for each of the following:

(i) Security control against man-made or natural incidents 2 Marks
(ii) Data integrity control 2 Marks
(iii) Systems integrity control 2 Marks
(iv) Contingency control 2 Marks

(TOTAL : 20 MARKS)

Continued/…….
4. (a) Give any two points on the importance of systems investigation when developing a system cycle. 6 Marks

(b) Describe any three aspects that could be investigated during systems investigation. 9 Marks

(c) State five concerns that an organization would have on the use of internet with regard to business operations and risks. 5 Marks

(TOTAL: 20 MARKS)

5. (a) What is a database? 2 Marks

(b) Define two characteristics of a database system. 4 Marks

(c) Why have organizations migrated to database systems? Give six reasons. 6 Marks

(d) Mention four advantages of a database. 4 Marks

(e) Mention four disadvantages of a database. 4 Marks

(TOTAL: 20 MARKS)

6. (a) Describe the following computer languages:

(i) First generation 3 Marks
(ii) Second generation 3 Marks
(iii) Third generation 3 Marks
(iv) Fourth generation 3 Marks

(b) Mention four types of services that computer bureaus provide to customers under the following headings:

(i) software 4 Marks
(ii) consultancy 4 Marks

(TOTAL: 20 MARKS)
7. (a) (i) Apart from range of formatting, mention four other advantages of word processing and desktop publishing to the user.  

(ii) Why do some people regret the coming of word processing and desktop publishing? Give two reasons.  

(iii) State four reasons why software companies have chosen CD Rom or DVD Rom (instead of magnetic disks) as a suitable medium to distribute software and reference material.  

(b) (i) Define a smart card.  

(ii) Describe any five possible areas of use of a smart card.  

(c) List any two possible  

(i) advantages of using a smart card.  

(ii) disadvantages of using a smart card.  

(TOTAL: 20 MARKS)