



No. of Pages - 09  
No of Questions - 07

**SCHOOL OF ACCOUNTING AND BUSINESS**  
**BSc. (APPLIED ACCOUNTING) GENERAL / SPECIAL DEGREE**  
**PROGRAMME**

**END SEMESTER EXAMINATION – OCTOBER 2015**

**ICT 30330 Management of Information Technology**

Date : 10th October 2015  
Time : 9.00 a.m. - 12.00 p.m.  
Duration : Three (03) Hours

**Instructions to Candidates:**

- Write the Index Number in the space provided at the top of this sheet. Do not write your name anywhere in this answer script.
- Answer the questions in this paper itself.
- This paper consists of three sections (A,B and C)  
Section A : Answer **ALL** questions  
Section B : Answer **ALL** questions  
Section C : Answer any **ONE** of the two questions
- The total marks for the paper is 100.
- The marks for each question are shown in brackets.
- Answers should be written neatly and legibly.

## Section A

Select the most appropriate answer.

1. Which of the following information system types supports tactical managers of a business organisation?
  - a. Transaction Processing Systems
  - b. E commerce systems
  - c. Decision support systems
  - d. Database management systems
  
2. Which of the following technologies resembles features of utility computing?
  - a. Internet of things
  - b. Cloud computing
  - c. End-user computing
  - d. Bring your own device
  
3. Which of the following is **not** a form of electronic commerce
  - a. Crowd funding
  - b. E-banking
  - c. Online auctions
  - d. Crowd simulation
  
4. Which of the following statements is/are correct about information systems?
  - A- Expert systems and machine learning are two common artificial intelligence techniques used in business information systems
  - B- Electronic business (e business) represents a sub-class of electronic commerce (e commerce)
  - C- Strategic information systems support strategic level decision making
  - a. A only
  - b. B only
  - c. A and B only
  - d. A and C only

5. Which of the following statements is correct about Rapid Prototyping methodology in information systems development?
- a. It involves an iterative information systems development process
  - b. It eliminates the need for systems analysis
  - c. It is mostly used by end-users for developing their own applications
  - d. It does not have any significant disadvantages
6. Which of the following is correct about business intelligence systems
- a. They intend to support strategic and tactical level decision making in organisations
  - b. Ignoring data quality is a common flaw that leads to business intelligence system failures
  - c. Microsoft Excel dominates the business intelligence market worldwide
  - d. They must always ensure providing a single version of truth about the organization
7. Which of the following statements is/are correct about data warehouses
- A- Online Analytical Processing (OLAP) is a key technology used to analyse data in data warehouses
  - B- They are central repositories of integrated data from one or more data sources
  - C- They contain only the structured data stemming from business transactions
- a. A only
  - b. A and B only
  - c. A and C only
  - d. All A, B and C
8. Which of the following techniques could be used to solve an OR model, which is formulated using a linear objective function and a set of linear constraints?
- a. Linear programming
  - b. Integer programming
  - c. Integer linear programming
  - d. Both linear and integer programming

9. In information system security, phishing means...
- a. An attack involving a rapidly replicating worm
  - b. Using a computer program which pretends itself as useful or interesting in order to persuade a victim to install it
  - c. Using a malicious software to infect a computer and asking for a ransom from the user to clean up
  - d. Attempting to acquire sensitive information from users by pretending as a trustworthy entity in an electronic communication
10. What does Moore's law state?
- a. Computational power doubles every one and half years
  - b. Cost of computational resources doubles every one and half years
  - c. Both cost and computational power doubles every one and half years
  - d. Silicon chips may soon be unable to double the current computational power

**(Total 20 marks)**

## Section B

Answer **ALL** four (04) questions

### **Question No. 01**

- a. Define the term “corporate strategy”

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- b. Explain the relationship between IT strategy and the corporate strategy?

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- c. The IT strategy of a firm basically should focus on the required information technologies and infrastructure to achieve its goals and objectives.” Do you agree with this statement? Justify your answer.

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**(15 marks)**

**Question No. 02**

- a. Name three main IT costs that reduces productivity.

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- b. Discuss three reasons due to which justification of IT investments is necessary.

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- c. Explain why the justification of return on investment (ROI) of IT projects is difficult

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- d. Explain why chargebacks are used by IS departments in business organisations

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**(15 marks)**

**Question No. 03**

- a. Define an information system

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- b. Giving suitable examples, explain the difference between information and knowledge.

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c. Explain why an IT plan is necessary for an organization.

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d. Describe the process of “system analysis” in information system development

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**(15 marks)**

**Question No. 04**

a. What are the advantages of using spreadsheet applications for financial modeling?

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- b. Explain the uses of “solver” and “goal seeking” in Microsoft Excel.

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- c. A company that operates 10 hours a day manufactures two products on three sequential processes. The following table summarizes the data of the problem.

Product	Minutes per Unit			Unit Profit
	Process1	Process 2	Process 3	
1	10	6	8	\$2
2	5	20	10	\$3

Formulate a linear programming model to determine the optimal mix of the two products.  
(Note: Solving the model is not necessary)

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**(15 marks)**

**(Total 60 marks)**

### **Section C**

Answer any **ONE** of the two questions

#### **Question No. 01**

- a. What are the three main characteristics of big data?
- b. What are the available opportunities for business organizations with cloud computing?
- c. Explain in what ways business analytics can help organizations to be competitive and sustainable
- d. “Crowd funding could be an emerging threat for traditional financial institutions.” Do you agree with this statement? Justify your answer.

**(Total 20 marks)**

#### **Question No. 02**

- a. Name three sources of IT risk
- b. Explain three cyber crimes that could affect an electronic business.
- c. Describe the term “social engineering” and explain how it could be used to perform cyber crimes.
- d. Discuss three impacts of social networks to business organisations?

**(Total 20 marks)**