

**CMA JANUARY 2022 EXAMINATION  
 INTERMEDIATE LEVEL I  
 INFORMATION & COMMUNICATION TECHNOLOGY**

Course Code	: TA223	Total Marks	: 50
Reading Time	: 10 minutes	Writing Time	: 90 minutes

**Instructions to Candidates**

- You **MUST NOT** write anything during the reading time.
- You should attempt ALL questions.
- Answers should be properly structured and relevant.
- Carefully read ALL the requirements and sub-questions before attempting a specific question.
- ALL answers must be written in the answer book.
- **AVOID WRITING/MARKING** on the question paper at any time which may cause disciplinary action.
- Start answering each question from a fresh sheet.
- Answers should be clearly numbered with the sub-question number.

**Allowable Materials**

- Writing Stationaries
- Non-programmable Calculator

**Assessment Structure**

			<i>Sub-question</i>	<i>Marks</i>	<i>Expected Time Required</i>
Section A	Question 1	Multiple Choice Questions	5	5	10 minutes
	Question 2	Modified True/False	5	5	10 minutes
Section B	Question 3	Essay/Case	5	20	32.50 minutes
	Question 4	Essay/Case	5	20	32.50 minutes
Revision					5 minutes
Total				50	90 minutes

**RESTRICTED USE**

This paper **MUST NOT BE REMOVED** from the examination venue

***Do not turn the page until instructed***

---

### SECTION A [10 MARKS]

THERE ARE 2 (TWO) QUESTIONS IN THIS SECTION. ANSWER ALL THE QUESTIONS IN THE ANSWER SCRIPT FOLLOWING THE EXAMPLE PROVIDED FOR THE SPECIFIC QUESTION.

---

#### QUESTION 1

[5 × 1 = 5 MARKS]

There are five (5) multiple-choice questions with five options. Pick the option that best explains the given question. Write your answer on the answer script [DO NOT PUT ANY MARK ON THE QUESTION PAPER]. Follow the example given below in providing your answer.

**Example:**

- (i) ICMAB stands for the –
- (a) Institute of Cost Management Accounting of Bangladesh
  - (b) Institute of Cost and Management Accountants of Bangladesh
  - (c) Institute for Cost Managers and Accounting of Bangladesh
  - (d) Institute of Cost Management Accountants of Bangladesh
  - (e) Industrial Cost Management Accountants of Bangladesh

**Answer: (i) (b)**

- (i) Which of the following are the phases SDLC?
- (a) Planning
  - (b) Design and Prototyping
  - (c) Development
  - (d) Operations and Maintenance
  - (e) All of the Above
- (ii) Which of the following describes an ERP system?
- (a) ERP systems provide a foundation for collaboration between departments.
  - (b) ERP system used by organizations to manage day-to-day business activities.
  - (c) ERP systems enable people in different business areas to communicate.
  - (d) ERP systems have been widely adopted in large organizations to store critical knowledge used to make the decisions that drive the organization's performance.
  - (e) All of the above
- (iii) A task of developing a technical blueprint and specifications for a solution that fulfills the business requirements is undertaken in the following phase of the system development process is
- (a) System initiation
  - (b) System design
  - (c) System implementation
  - (d) System analysis
  - (e) System maintenance
- (iv) According to analysts, for what can traditional IT system provide a foundation when they are integrated with **Big Data** technologies like:
- (a) Organizational data management and data mining
  - (b) Big data management and data mining
  - (c) Data warehousing and business intelligence
  - (d) Management of Hadoop cluster
  - (e) Collecting and storing unstructured data.

- 
- (v) Consequence of poor project management
- (a) Costs overruns, Time slippage, Technical shortfalls, Failure to obtain anticipated benefits
  - (b) Costs reduced, time shortened, technical loss and failure to get job done.
  - (c) Resources wastage, Time wasted, loss incurred
  - (d) Misleading the focus, waste of investment
  - (e) Termination of project people, sale of project properties.

**QUESTION 2**

**[5 × 1 = 5 MARKS]**

There are five (5) statements given under the question. Identify the statements as True or False. If the statement is false, rewrite the statement on the answer script to make it 'True'. Reasoning is NOT required. Follow the example given below in providing your answer.

**Example:**

(a) ICMA stands for the Industrial Cost Management and Accounting of Bangladesh.

**Answer:**

**(a) False. ICMA stands for the Institute of Cost and Management Accountants of Bangladesh.**

Note:

- You will not get any mark if you simply rewrite as ICMA *does not* stand for the Industrial Cost Management Accountants of Bangladesh.
- If the statement is true, you need NOT to rewrite the statement rather only mention that the statement is *True*.

- (a) Internet market places are online market place where multiple buyers can purchase from single seller at a time.
- (b) Blockchain is a shared, immutable ledger that facilitates the process of recording transactions and tracking assets in a business network.
- (c) A malware is a rogue software program that attaches itself to other software programs or data files to be executed, usually without user knowledge or permission.
- (d) Firewalls prevent unauthorized users from accessing private networks, it's a combination of hardware and software that controls traffic flows.
- (e) Information is at the heart of any **ERP** system?

---

**END OF SECTION A**

---

---

**SECTION B [40 MARKS]**

THERE ARE 2 (TWO) QUESTIONS IN THIS SECTION. ANSWER ALL THE QUESTIONS IN THE ANSWER SCRIPT.

---

**QUESTION 3**

**[(5 x 4) = 20 MARKS]**

- (a) Define Business Information System with examples?
- (b) Explain e-commerce? Mention all the types of e-commerce with appropriate examples?
- (c) What is network protocol? Identify at least three wireless telecommunication protocols.
- (d) Define Data Warehouse and Data Mining?
- (e) What is fintech system? Explain with examples.

**QUESTION 4**

**[(5 x 4) = 20 MARKS]**

- (a) What is IS Planning?
- (b) Discuss about the advantage and disadvantages of ERP?
- (c) How you recommend to improve MIS?
- (d) Describe different Types of Information Systems Control?
- (e) What are the principal risk factors in an information system project?

---

**END OF SECTION B**

---