



CERTIFIED PUBLIC ACCOUNTANT
FOUNDATION LEVEL 2 EXAMINATIONS
F2.3: INFORMATION SYSTEMS

DATE: TUESDAY 26, NOVEMBER 2024

INSTRUCTIONS:

1. Time Allowed: **3 hours 15 minutes** (15 minutes reading and 3 hours writing).
2. This examination has **seven** questions and only **five** questions should be attempted.
3. Marks allocated to each question are shown at the end of the question.
4. The question paper should not be taken out of the examination room.

QUESTION ONE

Deng Ltd is a private firm specializing in IT infrastructure, including hardware, software, network installations, and telecommunication services. They provide computing platforms, manage physical installations, and handle telecommunications and data management for clients. Deng Ltd utilizes both cloud computing and traditional technologies.

Required:

- a) **Describe at least four key infrastructure components suitable for DENG Ltd.** (4 Marks)
 - b) **Advise with at least six Hardware platforms Deng Ltd would have.** (12 Marks)
 - c) **Discuss at least four Hardware platform trends recommended to DENG Ltd.** (4 Marks)
- (Total: 20 Marks)**

QUESTION TWO

In post-industrial revolution, businesses are growing very faster and this is much fostered by the use of business integrate functions that ensure seamless transfer of information between business functions, this improves both the efficiency of the organisation and its ability to respond to request from clients, it also enhances precise and timely management decisions. Businesses are also integrated with other business entities such as suppliers, customers and partners through the use of enterprise resource planning systems.

Required:

- a) **Discuss any five types of Enterprise resource planning (ERP) modules.** (10 Marks)
 - b) **Discuss any three benefits and other three challenges of group decision support system.** (6 Marks)
 - c) **Elaborate at least four benefits of Enterprise Resources Planning (ERP) system.** (4 Marks)
- (Total: 20 Marks)**

QUESTION THREE

Ganza Limited is an online firm making global sales and dealing with numerous clients. To prevent hacking and unauthorized client's data access, Ganza Limited has implemented security measures, including policies, rules, procedures, and technical solutions. These measures protect against unauthorized system access, data alteration, theft, and physical damage to hardware. Protecting stored data such as employee records, trade secrets, and customer information is crucial to avoid reputational damage and legal liability.

Required:

- a) **Recommend at least three security control mechanisms to Ganza Ltd.** (6 Marks)
- b) **Discuss at least four security management challenges faced by Ganza Ltd.** (8 Marks)
- c) **Describe at least three mitigations to the above challenges faced by Ganza Ltd.** (6 Marks)

(Total: 20 Marks)

QUESTION FOUR

Databases are essential tools for organizations to enhance business performance and decision-making. They track of all transactions, provide information for efficient operations needed on time, and aid managers and employees in making informed decisions. Technologies such as data warehousing, data mining, and web-based tools like OLAP are used for these purposes and for electronic commerce.

Required:

- a) **Discuss at least five benefits of using databases for business performance.** (10 Marks)
- b) **Deliberate on at least four different ways e-commerce benefits any organization.** (4 Marks)
- c) **Discuss at least three types of electronic commerce.** (6 Marks)

(Total: 20 Marks)

QUESTION FIVE

Information systems are revolutionizing business. The internet have drastically reduced information acquisition and distribution costs, empowering operational staff with more decision-making power. Managers can now easily monitor staff performance, reducing the need for middle managers and flattening organizational structures. Information technology has made organizations more flexible, requiring effective change management to transition from traditional to computer-based systems.

Required:

- a) **Discuss at least five business information system challenges.** (10 Marks)
- b) **Elaborate at least five different challenges on change value management system.** (10 Marks)

(Total: 20 Marks)

QUESTION SIX

Technological advancements, especially in wireless technologies, have globally connected firms through (local area network) LAN, (wide area network) WAN, (metropolitan area network) MAN, and more. These connections enable easy communication, resource sharing, and security, and can be wired or wireless. Full internet connectivity is essential for resource sharing. For effective management, an organization's networked computers must be arranged coherently.

Required:

- a) **Distinguish with three differences between Metropolitan Area Network and Wide Area Network.** (3 Marks)
- b) **Write short notes on the following network terminologies**
 - i) **Asynchronous Transfer Mode (ATM)** (1 Mark)
 - ii) **Integrated Services Digital Network (SDN)** (1 Mark)
 - iii) **Digital Subscriber Line (DSL) Broadband** (1 Mark)
- c) **Deliberate on any four Wireless technology** (8 Marks)
- d) **Write short notes on the usage of the following internet protocols.**
 - i) **TCP/IP** (1 Mark)
 - ii) **MTP** (1 Mark)
 - iii) **IMAP** (1 Mark)
 - iv) **POP** (1 Mark)
 - v) **SMTP** (1 Mark)
 - vi) **ARP** (1 Mark)

(Total: 20 Marks)

QUESTION SEVEN

Nowadays, companies prioritize data management for accurate decision-making across different management levels. Managers rely on various management information systems to guide staff with precise decisions. To minimize human errors and enhance accuracy, current managers use computer-based decision support systems (DSS) for decision-making.

Required:

- a) **Discuss any five types of systems that support decision making in firms.** (10 Marks)
- b) **Describe at least any three Decision Making Processes.** (6 Marks)
- c) **Write short notes on any two components of DSS.** (4 Marks)

(Total: 20 Marks)

End of question paper