**QUESTION 1**

1. Distinguish between **e-wallets** and **bank transfers** as used in e-commerce payment methods **(4marks)**
2. In an error of identity theft and impersonation, security is among the primary concerns that restrains consumers from engaging in e-commerce. With reference to this statement, explain three critical functions that are performed by a secure electronic transaction (SET) system. (6marks)
3. Discuss sales and marketing from a functional perspective (5 marks)
4. Explain **FIVE** benefits of strategic information system to a business (5 marks)

**20 marks**

**QUESTION 2**

1. Highlight **FOUR** characteristics of Internet of Things (IoT) (4marks)
2. Discuss any **FIVE** challenges associated with the use of internet (10marks)
3. Outline any **2** models used in classifying e-commerce applications (2 marks)
4. Outline **FOUR** advantages of using joint application design (JAD) technique in the design of an information system (4 marks)

**(20 marks)**

**QUESTION 3**

1. By using a relevant example, explain the following terms as used in cloud computing:
2. IaaS (2 marks)
3. SaaS (2 marks)
4. PaaS (2 marks)
5. Discuss the process you would use to handle an interrupt that occurs during the execution of a program (5 marks)
6. Briefly explain the following terms as used in operating systems:
7. Thread (2 marks)
8. Internal fragmentation (2 marks)
9. Shell (2 marks)
10. Explain any **3** roles of accounting information systems to organizations (3 marks)

**(20 marks)**

**QUESTION 4**

1. Explain **FOUR** purposes of maintaining a backup in an organization (4 marks)
2. Explain the following types of backups:
3. Full backup (2 marks)
4. Incremental backup (2 marks)
5. Differential backup (2 marks)
6. Mobile applications have in the recent years become very common. With reference to this statement, explain the following:
7. Bluetooth (2 marks)
8. WIFI (2 marks)
9. VOIP (2 marks)
10. Identify any **FOUR** common problems the developers of mobile applications face (4 marks)

**(20 marks)**