BOWEN UNIVERSITY IWO, OSUN STATE
COLLEGE OF COMPUTING AND COMMUNICATION STUDIES
CYBER SECURITY PROGRAMME
B. Sc. DEGREE, FIRST SEMESTER EXAMINATION, 2023/2024 SESSION
COURSE CODE: CYB405|| COURSE TITLE: Cloud Computing Security
COURSE CREDITS: 2 Units || ~~████████ JANUARY ████~~ **TIME**
ALLOWED: 2hours

Attempt any 4 questions. Use diagrams where necessary (each 2-part question is 20 marks).

1. a.) Define Cloud Computing and differentiate between the roles of Cloud Provider, Cloud Operator and Cloud Consumers
    b.) What are the main components founds in a virtual Data Centre, give suitable examples?

2. a.) Define the terms Hypervisor and virtual machine and virtual appliance?
    b.) Briefly discuss five key characteristics of Cloud Computing

3. a.) Briefly discuss any four "Data Security" best practices for cloud computing
    b.) Discuss three cloud service models

4. a.) Define fault tolerance and briefly discuss any two mechanism for achieving fault tolerance in a virtual data centre
    b.) Briefly discuss four cloud deployment models and their relative security.

5. a.) As a SaaS Cloud Provider, briefly discuss any three Application Security best practices for improving security
    b.) Briefly discuss any three benefits of virtualized Data Centres

6. a.) Using suitable examples, discuss any two of the four broad threat areas in Cloud Computing.
    b.) Discuss the mitigation of Privacy and Compliance risks in Cloud Computing.