

Part A

- 1.a. With neat diagram explain basic functional units of computer. (5 marks)
- 1.b. With neat diagram compare the lifecycle of workflow and life cycle of computer program. (6 marks)
- 1.c. Discuss the services offered by Amazon web service access from AWS management console. (6 marks)

Part B

- 2.a. Discuss the classification of workflow patterns. (5 marks)
- 2.b. Write the VHDL program for Full Subtractor. (5 marks)
- 2.c. Compare the services provided by Google and windows. (5 marks)

Part C

- 3.a. Implement the Boolean function with OR and INVERTER gates only $F = xz + x'z' + x'y$ (4 marks)
- 3.b. With neat diagram explain NIST reference model. (5 marks)
- 3.c. Explain in brief VMM Virtualizes the CPU and Memory. (6 marks)

Part D

- 4.a. This is Testing, Question? (5 marks)
- 4.b. Define cloud computing. List 5 characteristics cloud computing. (5 marks)
- 4.c. Basic Performance Equation (3 marks)