



Daffodil International University

Department of Computer Science and Engineering

Faculty of Science and Information Technology

Midterm Examination, Semester: Summer 2019

Course Code: CSE 322

Course Title: Computer Architecture and Organization

Section: DAY ALL

Course Teacher: ALL

Time: 1.5 hours

Total Marks: 25

Answer any five from the following questions

- Q. 1. (a) Differentiate between 'Computer Architecture' and 'Computer Organization' with some applications. 2
(b) What are the similarities between computing processing system and human processing system? 2
(c) What is an abacus? 1
- Q. 2. (a) b. What are the major changes take place from first generation computer to second generation computer? 2
(b) Draw the circuit of a full adder using two half adders and an OR gate. 2
(c) What is slide rule? 1
- Q. 3. (a) What are the main two drawbacks of a mechanical computer in contrast to electronic computer? 2
(b) Write an IAS program to subtract two numbers stored in main memory. 2
(c) What is a batch monitor? 1
- Q. 4. (a) Draw the Organization of the CPU and main memory of the IAS computer? 2
(b) Discuss System Design and also mathematical explanation of it. 2
(c) What is interrupt? 1
- Q. 5. (a) Define the terms: ASCII & EBCDIC. 1
(b) If the decimal value of C is 67, find out the both binary and octal values of F and A? 2
(c) What is Ripple Carry Adder? Draw a ripple carry adder which could use to add two 4-bits binary numbers. 2
- Q. 6. (a) Write short notes on the following: 2
(i) VLSI (ii) Control Bus
(b) Write down the name of three design levels of computer? 1
(c) Classify following components according to three design levels: 2
(i) Register (ii) XOR gate (iii) System bus (iv) CPU (v) Flip-flop (vi) Counter

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