JAIN SUBODH P.G.(AUTONOMOUS) COLLEGE, JAIPUR
Affiliated to University of Rajasthan, Jaipur
II CIA B.C.A. II Semester Test, April 2017
Computer Architecture

Max. Marks: 30   **Duration: 1 Hour**

Instructions to the Candidates

Note:- **Section A** : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two (7.5x2=15 marks)

Section B : Consists of one descriptive question of 15 marks with an internal choice.

Section A

Q.1   Write a short note on:-
   i)   Flip Flop
   ii) Registers
   iii) Counters

Q.2   Define J-K Master Slave Flip Flop with diagram.

Q.3   Define Edge Trigger Flip Flop with diagram.

Section B

Q.4   Define Synchronous and Asynchronous Counters?

OR

Define various Shift Registers in detail.

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II CIA BCA II Semester Test, April 2017
Internet and Web Technology

Max. Marks: 30   **Duration: 1 Hour**

Instructions to the Candidates

Note:- **Section A** : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two (7.5x2=15 marks)

Section B : Consists of one descriptive question of 15 marks with an internal choice.

Section A

(1) What is DHTML? Explain the various features of DHTML.

(2) What is the use of DIV Tag? Explain z-index property with suitable example.

(3) What is Frameset? How can we use them? Explain with a suitable example.

Section B

(4) What is CSS? What are the different types if Style Sheets in CSS? Explain with examples.

OR

How to create Forms in HTML? Explain with suitable example.

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II CIA BCA II Semester Test, April 2017
Object Oriented Programming Concepts

Max. Marks: 30   **Duration: 1 Hour**

Instructions to the Candidates

Note:- **Section A** : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two (7.5x2=15 marks)

Section B : Consists of one descriptive question of 15 marks with an internal choice.

Section A

(1) Write a short note on:
   i.   Classes
   ii. Objects

(2) Define Friend function with suitable example.

(3) Explain destructor with suitable example.

Section B

(4) What is Constructor? How many constructors define c^{++}? Explain.

OR

What are Access Specifiers? How many types of access specifiers are there in c^{++}? Define them with a suitable example.

S. JAIN SUBODH P.G.(AUTONOMOUS) COLLEGE, JAIPUR

Affiliated to University of Rajasthan, Jaipur
II CIA B.C.A. II Semester Test, April 2017
Digital Electronics & Circuits

Max. Marks: 30   **Duration**: 1 Hour

Instructions to the Candidates/ आवश्यक निर्देश :--

Note:- Each paper consists of one major question with internal choice. Students are required to answer any one question from each paper.

सुचना— प्रत्येक प्रश्नपत्र में एक प्रमुख प्रश्न पूछे जायेगें। परीक्षार्थियों को कोई एक प्रश्न करना अनिवार्य है।

Q.1   Explain Pin diagram & logic diagram for Ic – 74151 – 8 to 1 multiplexer.

OR

Describe the characteristics of digital Ic's.

Q.2   Explain logic diagram for 1 to 8 demultiplexer

OR

Explain the working of Register Transistor logic (RTL).