9. Explain the following :

    (a)   Instruction Format   8

    (b)   I/O Channel   8

Roll No. ....

97666

BCA 2nd Semester

Examination – April, 2018

LOGICAL ORGANIZATION OF COMPUTER

Paper : BCA-107

Time : Three Hours]   *[Maximum Marks : 80*

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is *compulsory*. Attempt *four* questions by selecting *one* question from each Unit. All questions carry equal marks.

1. (a)   What is Interrupt structure ? $2 \times 8 = 16$

    (b)   What is an Instruction Set ?

    (c)   What are applications of ROM ?

    (d)   What is an Instruction Cycle ?

    (e)   What is an I/O Interface ?

    (f)   What characterizes optical storage devices ?

(g) What is an Instruction Format ? State their significance.

(h) What is D flip-flop ?

UNIT – I

2. (a) What are Excitation Tables ? How are these relevant ? Draw Excitation Table for RS and JK flip-flop. http://www.HaryanaPapers.com   8

(b) What are race conditions ? How does Master-Slave flip-flop overcome race conditions ? Illustrate its working.   8

3. Explain the following :

(a) Clocked RS flip-flop   8

(b) State Diagram   8

UNIT – II

4. (a) What is Modulo-10 counter ? How do you design it ? Explain its working through block diagram.   8

(b) Design a 4-bit shift register and outline the procedure for serial to parallel conversion and vice-versa.   8

5. Explain the following :

(a) Up-Down Counter   8

(b) Asynchronous Sequential Circuit   8

UNIT – III

6. (a) What are I/O device controllers ? How these work ? Illustrate their working.   8

(b) What is Internal memory ? How is it different from External memory ? What are important memory parameters ?Illustrate.   8

7. Explain the following :

(a) Flash Memory   8

(b) Semiconductor RAM   8

UNIT – IV

8. (a) What are Addressing Modes ? What are different Addressing Modes ? Illustrate through examples.   8

(b) What is DMA technique ? How is it different from Interrupt-controlled I/O technique ? Illustrate their working.   8

Roll No. ....

97666

BCA 2nd Semester

Examination – May, 2019

LOGICAL ORGANIZATION OF COMPUTER

Paper :BCA- 107

Time : Three Hours]　　　　[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is *compulsory*. Attempt *four* questions by selecting *one* question from each Unit. All questions carry equal marks.

1. (a) What is State Equation ?　　　$2 \times 8 = 16$

   (b) Differentiate between Synchronous and Asynchronous sequential circuits.

   (c) What are race conditions ?

   (d) What are the functions of an I/O module ?

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(d) Macro analysis of consumer behaviour

(e) Fiscal deficit

(f) Benefits of the study of Business taxes

(g) Role of central Bank

(h) Money multiplier

SECTION – B

UNIT – I

2. Discuss the concept of national income. What are the alternative concepts and measures ?

3. Describe nature of a trade cycle . What are the causes of booms and recessions ?

UNIT – II

4. Discuss the relative and permanent income hypothesis.

5. Elaborate on simple Keynesian model of income determination.

UNIT – III

6. What are the basic issues in fiscal deficit management ?

7. Write a detailed note on business taxes types, rationale and incidence.

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UNIT – IV

8. Write short notes on the following :

   (a) Money supply measures

   (b) Instruments of monetary policy

9. Discuss the causes effects and control measures of monetary policy.

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