Roll No. .....

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CBB-2944-T

M.C.A. Second Semester

(End Semester)

Examination-2019

COMPUTER SCIENCE & APPLICATION

Paper : CSA-CC-221

(Computer Architecture)

Time : Three Hours] [Maximum Marks : 60

Note :– Attempt all questions from Sections **A**, any four questions from Section **B** and any three questions from Section **C**.

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SECTION - A

(Objective Type Questions) 1×10=10

Note :– All questions are compulsory. Choose correct answer of the following :

1. (1) Binary equivalent of decimal number 2.35 is :

(a) 11.0111

(b) 10.0101

(c) 10.1111

(d) 11.1111

(2) Progam counter is a :

(a) Cell in ROM

(b) Buffer

(c) Register

(d) Device of I/O

(3) Which of following code uses 7 bit to represent a character :

(a) EBCDIC

(b) BCD

(c) GRAY

(d) ASCII

(4) Registrors are used for :

(a) Temporary storage

(b) Storing the instruction

(c) Permanent storage

(d) Local address

(5) Speed of computer is measured in :

(a) FLOPS

(b) BAUD

(c) SYPS FLOPS

(d) None of the above

(6) The programmable interval timer is :

(a) 8251

(b) 8250

(c) 8253

(d) 8275

(7) Which memory is volatile :

(a) RAM

(b) ROM

(c) EPROM

(d) PROM

(8) Which memory is related to fasted access by CPU :

(a) CD

(b) DVD

(c) EPROM

(d) Cache memory

(9) Dot matrix is a type of :

(a) Tape

(b) Printer

(c) Disk

(d) Bus

(10) Find the odd one out amongest following—

(a) Mouse

(b) Touch screen

(c) Light pen

(d) Printer

SECTION - B

(Short Answer Type Questions) 4×5=20

Note :– Attempt any **four** questions. Each question carries **five** marks.

2. Discuss the error detection codes.

3. Compare the logic micro operations and shift micro operations.

4. Explain type of interrupts with examples.

5. Explain the instruction format and addressing modes.

6. How input-output processor works ?

7. What are memory management hardwares ?

SECTION - C

(Long Answer Type Questions) 3×10=30

Note :– Attempt any **three** questions. Each question carries **ten** marks.

8. Discuss the Von Neumonn model and bus system model. How binary codes and fixed point representations are made ?

9. Explain the followings :

   (a) Arithmetic algorithums and operations

   (b) Decimal operations

10. Discuss registers, instruction codes, instruction cycles, memory based instructions used in organisation of a computer system.

11. Explain the following in terms of input-output organisation :

   (a) Peripheral devices

   (b) Data transfer modes

12. Write a note on different types of memories used in a computer system.