

Total No. of Questions :12]

Nov-15

SEAT No. :

P1920

[4861]-102

[Total No. of Pages :2

F.Y. M.C.A. (Engg.)

COMPUTER ORGANIZATION

(2013 Course) (Semester - I) (310902)

Time : 3 Hours]

[Max. Marks :50

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.
- 2) Figures to the right side indicate full marks.
- 3) Assume suitable data if necessary.

Q1) a) Explain the types of software with example. [6]

b) Explain in short stored program concept. [3]

OR

Q2) Draw the algebraic expression, logic symbols and truth table for all basic gates. [9]

Q3) Explain the two types of Adders. [8]

OR

Q4) a) What is multiplexer and De-multiplexer? Explain in short. [4]

b) Write a short note on master slave flip-flop. [4]

Q5) Draw memory hierarchy and explain all types of memory. [8]

OR

Q6) a) Differentiate between DRAM and SRAM. [4]

b) Explain cache memory structure. [4]

P.T.O.

Q7) What is Interrupt? Explain various types of Interrupts in detail. [9]

OR

Q8) a) What do you mean by addressing mode? [4]

b) Explain the system buses and their characteristics. [5]

Q9) Draw and explain 16-bit(8086) architecture in detail. [8]

OR

Q10) Explain Pentium Processor Architecture. [8]

Q11) a) Explain the concept of Parallel Processing. [4]

b) Write a short note on Cluster Architecture. [4]

OR

Q12) a) Explain the concept of Clusters. [4]

b) Write a short note on CPU performance. [4]

EEE