

(2)

[Total No. of Questions: 8]

[Total No. of Printed Papers : 2]

Roll No.....

MCA-12

MCA-Semester

Examination, Jan.- 2019

Computer Organization & Architecture

Time: Three Hours

Maximum Marks: 70

- Q.6 (a) Differentiate between internal & External Fragmentation
- (b) Differentiate between 'Sum of -Product's and 'Product- of-Sums' with an example.
- Q.7 (a) Explain Error Correction and Error Detection codes with one example of each
- (b) Explain Karnaugh Map (K-MAP) by one simple example.
- Q.8 Describe any four terms
- JK FLIP FLOP
 - Virtual Memory
 - Paging
 - ASCII
 - Hamming Code
 - Parity Bit

Note 1) Attempt any five questions (each question carries equal marks)

- Q.1 (a) Explain Von-Newman Model of a computer with the help of a neat diagram.
- (b) Explain the need of floating -point representation
- Q.2 (a) Formally define De Morgan's Law.
- (b) Explain XOR GATE while taking example of truth table of three inputs.
- Q.3 (a) Differentiate between Multiplexers & De multiplexers with the help of an example.
- (b) Discuss Half -Adder in detail with an numeric example.
- Q.4 (a) Define RS Flip Flop, with an example.
- (b) Explain design procedure of counters.
- Q.5 (a) Elaborate the Cache Memory organization and its utility.