



BRAINWARE UNIVERSITY

Term End Examination 2022

Programme – MCA-2020/MCA-2021/MCA-2022

Course Name – Computer Architecture and Microprocessor

Course Code - MCA103

(Semester I)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Select the high-speed storage elements of ALU
- | | |
|-------------------------|-----------------------|
| a) Semiconductor memory | b) Solid state memory |
| c) Registers | d) Integrated circuit |
- (ii) Select the unit of a computer system which executes program, communicates with and often controls the operation of other subsystems of the computer
- | | |
|-----------------|------------------------------|
| a) CPU | b) Both CPU and Control Unit |
| c) Control Unit | d) MMU |
- (iii) Decide which feature reduction has been deployed by CISC and RISC architectures
- | | |
|-----------------|-----------------|
| a) Cost | b) Time delay |
| c) Semantic gap | d) All of these |
- (iv) Choose the architecture where Pipe-lining is a unique feature
- | | |
|---------|---------|
| a) RISC | b) CISC |
| c) INA | d) IANA |
- (v) Test Booth's multiplication algorithm
- | | |
|--|--|
| a) multiplies two unsigned binary numbers in two's complement notation | b) multiplies two signed binary numbers in two's complement notation |
| c) multiplies two signed binary numbers in 1's complement notation | d) multiplies two signed binary numbers in modulus notation |
- (vi) Anticipate the BUS through which video devices are connected
- | | |
|---------|---------|
| a) PCI | b) USB |
| c) HDMI | d) SCSI |
- (vii) Match universal logic gate.
- | | |
|---------|--------|
| a) XNOR | b) NOR |
| c) XNOR | d) NOT |
- (viii) Match the binary number 1111000011110000 to hexadecimal number

