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End Sem (II) – MCA (XI)

2014

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from **all** the Groups are directed.

Group – A

(Compulsory)

1. Fill in the blanks of the following:

1x5=5

- a) POST stands for
- b) The decimal equivalent of 'C' is
- c) 1234 GB is equal tobytes.
- d) EEPROM stands for
- e) Computer works on Cycle.
- 2. State '**True'** or '**False'** statement of the following: 1x5 = 5
 - a) RAM is a non-volatile memory.
 - b) Virtual memory is also known as physical memory.
 - c) A microprocessor can perform only arithmetic operation.
 - d) During booting operating system is loaded into the memory.
 - e) Cache is a permanent storage unit.
- 3. Expand the following:

1x5 = 5

a) DMA

- b) μp
- c) RDRAM
- d) DVD
- e) ALU

Group – B

Answer any **five** questions of the following: 4x5=20

- 4. What is micro instructions? Explain.
- 5. Explain the architecture of a digital computer.
- 6. Discuss the working of a microprocessor.
- 7. Explain the memory organization.
- 8. What do you mean by Instruction set? Explain.
- 9. Write a brief note on vector processing.
- 10. Explain conversion of Binary number to a hexadecimal number.
- 11. Explain the concept of data path with suitable example.

Group – C

Answer any **five** questions of the following: 7x5=35

- 12. Explain the concept of virtual memory with suitable example.
- 13. What do you mean by DMA? Explain the DMA technique in detail.
- 14. Explain the Von-Neumann architecture in details.
- 15. Explain the synchronous and asynchronous data transfer modes.
- 16. Explain the various addressing modes.
- 17. Explain the structure of a Hard Disk with suitable diagram.
- 18. Write notes on the following:
 - a) Associative memory

- b) Micro Instructions
- 19. Perform the following conversions with explanations:
 - a) 2AF to Binary
 - b) (1100110)₂ to Decimal

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For more questions visit: <u>https://www.guptatreepoint.com/marwari-college-previous-year-question-paper/</u>