(DMCA103)

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M.C.A. DEGREE EXAMINATION, MAY – 2018
First Year
COMPUTER ORGANIZATION

Time : 3 Hours   Maximum Marks :70

SECTION - A
Answer any three questions. (3 x 15 = 45)

Q1) List and briefly define the main structural components of a computer.

Q2) What type of transfers must a computer's interconnection structure (e.g., bus) support.

Q3) What common characteristics are shared by all RAID levels?

Q4) Explain briefly regarding Floating Point Arithmetic.

Q5) Discuss about Instruction Pipelining.

SECTION - B
Answer any five questions.   (5 x 4 = 20)

Q6) What, in general term, is the distinction between computer structure and computer function.

Q7) List and briefly define the functional groups of signal lines for PCI.

Q8) Briefly define seven RAID levels.

Q9) Define the terms track, cylinder and sector with a neat diagram.

Q10) Discuss IEEE standard for Binary Floating Point Representation.

Q11) Write about Two's Complement Representation.

Q12) How do we determine Pipeline Performance?

Q13) Explain Timing of Synchronous Bus Operations.

SECTION - C
Answer all questions.   **(5 x 1 = 5)**

Q14) What is the importance of Addressing Modes?

Q15) Discuss about ALU.

Q16) Explain Optical Memory.

Q17) What is Vacuum tubes?

Q18) What is computer top level structures?

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