

# COMPUTER SCIENCE – HONOURS

## First Paper

Full Marks – 100

*The figures in the margin indicate full marks*  
*Candidates are required to give their answers in their own words as far as practicable*

Answer Question No. 1 and any five from the rest, taking  
 at least one from each Group

1. Answer any ten questions from the following :

- (a) What is the function of cache memory ? 2×10
- (b) State the principle of duality in Boolean algebra.
- (c) Draw the truth table for :  $(A' + B) \oplus (A + B')$ .
- (d) Find the minterm of  $f(x, y, z) = xy + yz + xz$ .
- (e) Simplify :  $\pi(2, 4, 6, 8, 14)$  using  $k$ -map.
- (f) How can data be erased from EPROM ?
- (g) Prove that NOR is non-associative.
- (h) Perform  $(-62)_{10} - (-28)_{10}$  using 2's complement.
- (i) What does parity mean ?
- (j) Define Fermi Level.
- (k) What is a linear network ?
- (l) Define KCL.
- (m) What do you mean by virtual ground of an OP-Amp ?
- (n) State the function of SP register of CPU.
- (o) What do you mean by the base addressing and the indexed addressing mode ?
- (p) Define machine cycle and instruction cycle.

### Group – A

#### (Computer Fundamentals)

2. (a) Briefly state the characteristics of mainframe, supercomputer and personal computer. 6
- (b) List some characteristics of procedural language and object-oriented language. 4
- (c) Show that the dual of the EX-OR is equal to its complement. 2
- (d) Show the steps to convert one N-bit binary number to the Gray code and from Gray code to binary. 2+2
3. (a) Briefly explain the characteristics of different types of primary and secondary memories used. 6
- (b) Draw the flow chart for finding the prime numbers upto  $N$ . Take  $N$  as an input. Write its pseudo code also. 4+3
- (c) State and prove the consensus theorem of Boolean algebra. 3

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