

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc(SS) DEGREE EXAMINATION MAY 2024
(First Semester)

Branch – SOFTWARE SYSTEMS (five year integrated)

COMPUTER ORGANISATION AND ARCHITECTURE

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Binary equivalent of the decimal 16 is a) 10000 b) 1111 c) 10001 d) 1001	K1	CO1
	2	2's Complement of 10110 is a) 11010 b) 01010 c) 10100 d) 01110	K2	CO1
2	3	In basic identities of Boolean algebra, $x+x = \underline{\quad}$ a) 0 b) 1 c) x d) None of the above	K1	CO2
	4	A flip flop is a binary cell capable of storing <u> </u> bit of information. a) 2 b) 4 c) 8 d) 1	K2	CO2
3	5	Name the microoperation that shifts a signed binary number to the left or right. a) Arithmetic shift b) Logical shift c) Circular shift d) None of the above	K1	CO2
	6	Program counter holds the address of <u> </u> instruction. a) previous b) next c) current d) None of the above	K2	CO3
4	7	The postfix representation of the expression $(3*4) + (5*6)$ is a) $34*56*+$ b) $34*56+*$ c) $34+56*+$ d) $34*5*6+$	K1	CO3
	8	A memory unit accessed by its content is called as a) Virtual memory b) Associative memory c) Cache Memory d) Main memory	K2	CO4
5	9	A command to activate the peripheral devices and to inform it what to do is termed as a) I/O command b) Control Command c) Status Command d) None of the above	K1	CO4
	10	A multiprocessor system with common shared memory is called as a) Loosely coupled b) Tightly Coupled c) Multiport coupled d) None of the above	K2	CO4

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