

M.C.A. / P.G.D.C.S. First Semester (First Year) (CGS)
15501 : Computer Organisation : 1 MCA 1

P. Pages : 2

Time :



AU - 3148

Max. Marks :

1. a) What is Amdahl's Law? Explain in detail. 7
- b) Explain the IIIrd & IVth generation of computer. 7

OR

2. a) Explain the concept of operating system & its characteristics? 7
- b) Explain the concept of program development tools with the help of diagram. 7
3. a) Explain Booth's Algorithm for signed multiplication. 6
- b) What are the different between packed & unpacked decimal. 7

OR

4. a) Explain IEEE 754 standard & its format. 6
- b) Explain bitslice processor in brief. 7
5. a) Explain the concept of RISC and CISC. 6
- b) What is processor organization? Explain G.P.R. and stack based organization. 7

OR

6. a) What is Subroutine? Explain subroutine using stack to implement subroutine call & calling conventions. 7
- b) Explain in brief the concept of fetch & decoding unit. 6
7. a) Explain VLIW processor & give advantage & disadvantages of it. 7
- b) Explain in brief the concept of Pentium processor. 6

OR

8. a) What is mean by multi-threaded processor? Explain in detail. 6
- b) Explain instruction pipeline & pipeline performance. 7
9. a) Explain the memory hierarchy & its level in the hierarchy. 6
- b) What are semiconductor ROM? Explain in detail. 7

OR

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| 10. | a) | Explain memory chip organization with help of example. | 7 |
| | b) | Explain the difference between RAM & ROM in term of technology, speed & Size & cost. | 6 |
| 11. | a) | Explain different mapping function & address translation. | 7 |
| | b) | Explain Bus arbitration with different methods. | 6 |
| OR | | | |
| 12. | a) | What is interrupt? Explain Hardware interrupt with example. | 7 |
| | b) | Describe Direct Memory Access (DMA). | 6 |
