

Total No. of Questions : 8 | Total No. of Printed Pages : 3

Paper Code : 21325

F-425

B.C.A. (Fifth Semester) Examination, 2021

(New Course)

Paper No. BCA-505-N

ADVANCED COMPUTER ARCHITECTURE

Time : Three Hours | Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks. Symbols used have their usual meanings.

1. (a) What do you understand by parallel computer structures? Explain.
- (b) Explain the difference between control flow and data flow computers.

(1)

P.T.O.

2. (a) Explain the characteristics of cache memory in detail.
- (b) Explain the characteristics of input output subsystems in detail.
3. (a) Explain the principles of linear pipelining in detail.
- (b) Explain the characteristic of vector processing. <https://www.mjpruonline.com>
4. (a) What are the Parallel algorithms for array processors? Explain in detail.
- (b) How can we prevent collision in pipelining processing.
5. (a) What is the difference between loosely coupled and tightly coupled multiprocessors? Explain in detail.
- (b) Explain the classification of multiprocessor operating systems in detail.

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(2)

6. (a) Explain multiprocessor scheduling strategies in detail.
- (b) Explain SPARC architecture in detail.
7. (a) Explain superscalar processors in detail?
What are the characteristic of it?
- (b) What are the difference between UMA and COMA? Explain in detail.
8. Explain any three terms:
- (i) Star-100 Architecture
- (ii) MUMA
- (iii) Parallel Sorting
- (iv) Crossbar Switch

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