Roll No. | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Computer Engg.) (PIT) (Sem.–6)

PARALLEL COMPUTING

Subject Code : BTCS-714-18

M.Code : 92041

Date of Examination : 18-07-22

Time : 3 Hrs. Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. Write briefly :

a) What is SIMD?

b) What are the types of MIMD architecture?

c) What is SPMD?

d) What is meant by combinational circuits?

e) What is static and dynamic interconnection?

f) What is meant by data parallelism?

g) What are the performance metrics in parallel computing?

h) What is dataflow programming model?

i) What does sequential program mean?

j) What is parallel loop scheduling?

SECTION-B

2. What is vector in parallel computing?

3. What is Handler's classification?

4. What do you mean by PRAM model?

5. What is the difference in functional and dataflow programming?

6. What are the types of sequential programs?

SECTION-C

7. What are paradigms of parallel computing? Explain.

8. What are different methods used for scheduling in parallel processing? Explain.

9. Explain distributed memory programming with suitable example.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.