

Total No. of Questions : 8]

SEAT No. :

P5493

[Total No. of Pages : 2

[5671]-262

M.E. (E&TC-VLSI & Embedded Systems)

RECONFIGURABLE COMPUTING

(2017 Pattern) (Semester - I)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Answer any five questions from questions (Q.1. to Q.8.)
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume Suitable data wherever necessary
- 5) Use of Calculator is allowed.

Q1) a) What are the different types of partial reconfiguration? Explain any one [4]

b) Explain difference between reconfigurable machines and conventional processor [3]

c) Define: [3]

i) Run Time

ii) Reconfigurable

iii) Specialization

Q2) a) With labeled diagram, explain PAM as RC platform. [4]

b) Explain Pipeline and block Reconfigurable architectures. [3]

c) Elaborate application of Reconfigurable Computing. [3]

Q3) a) Explain DSP processor as domain specific processor .Give example of DSP processor. [5]

b) What do you mean by Context? Explain various types of context with diagram. [5]

Q4) a) Explain in detail the main components of system on programmable Chip [5]

b) Explain Relocation and Defragmentation w.r.t. RC point of view. [5]

P.T.O.

- Q5)** a) Explain Non -frequently reconfigurable systems & its applications. [5]  
b) Explain FPGA flow design with the help of flow diagram. [5]
- Q6)** a) Draw and explain the transfer of system from PCB to system on programming chip. [5]  
b) What are the Computational characteristics of FPGAs? Give different FPGA design tools. [5]
- Q7)** a) What are the communication protocol involved in a network. [5]  
b) State the application of RC in Video Streaming. [5]
- Q8)** a) Explain Architecture of Adaptive Cryptographic Systems. [5]  
b) Explain High performance computing w.r.t. FPGA. [5]

