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SEAT No. :

[Total No. of Pages : 2

BE/Insem./APR-208

B.E. (Information Technology)

414461 : DISTRIBUTED SYSTEM

(2012 Pattern) (Semester - II)

Time : 1 Hour]

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.
- 2) Assume suitable data, if necessary.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Figures to the right indicate full marks.

[Max. Marks : 30

Q1) a) Explain the Architectural Model of distributed systems with suitable diagrams. [5]

b) Write a short note on the World Wide Web (WWW). [5]

OR

Q2) a) List the various challenges while designing the distributed systems. [5]

b) Write a short note on Mobile and Ubiquitous Computing. [5]

Q3) a) What is Marshalling? List out the different approaches of external data representation and discuss each approach in detail. [5]

b) Explain the RPC exchange protocols used for implementing various types of RPC. [5]

OR

Q4) a) List the two design issues for RMI. Explain different methods of RMI invocation semantics. [5]

b) What is the publish-Subscribe system of communication? [5]

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Q5) a) What are the Web Services? Explain SOAP and REST-based Web Services. [5]

b) State and explain different types of data structures with respect to UDDI. [5]

OR

Q6) a) Describe the general organization of the CORBA system with the help of suitable diagram. Why there is no explicit data-typing in CORBA CDR? [6]

b) Write a brief note on: [4]

- i) XML Security Requirements
- ii) XML Signature