

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)

B.Tech.Sem - VIII IT :SUMMER- 2022

SUBJECT : COMPONENT ENGINEERING

Day : Thursday

Time : 02:30 PM-05:30 PM

Date : 16-06-2022

S-13437-2022

Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labelled diagram **WHEREVER** necessary.
 - 4) Assume suitable data **WHEREVER** necessary.
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Q.1 Explain the software architecture in object oriented programming. **(10)**

OR

Q.1 Discuss Object Oriented Programming concepts and features in detail. **(10)**

Q.2 Explain component architecture interface and specification with diagram. **(10)**

OR

Q.2 What is a component based technology? What are the types of components? How component reuse will work? **(10)**

Q.3 What is the reason to implement CORBA in client application? How CORBA application can be multi – threaded? **(10)**

OR

Q.3 Explain important form of asynchronous communication that are not supported directly by CORBA. Explain tuning of CORBA applications for better performance. **(10)**

Q.4 Mention and explain different features of distributed computing environment. **(10)**

OR

Q.4 Elaborate evolution of distributed system. List some advantages of distributed system. **(10)**

Q.5 Explain the use and features of COM in Visual Basic programming. **(10)**

OR

Q.5 Describe interface in COM and DCOM with suitable example. **(10)**

Q.6 How RMI uses Stub and skeleton object for communication with the remote object? Discuss with diagram **(10)**

OR

Q.6 What are the layers of RMI architecture? Describe RMI service. **(10)**

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