

**M. TECH. –IV (COMPUTER ENGINEERING) (CBCS – 2015
COURSE) : SUMMER - 2018
SUBJECT: SELF-STUDY PAPER – II: MIDDLE WARE TECHNOLOGIES**

Day : **Tuesday**
Date : **19/06/2018**

S-2018-3064

Time : **11.00 AM TO 02.00 PM**
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labeled diagrams **WHEREVER** necessary.
 - 4) Answers to both the sections should be written in the **SEPARATE** answer books.
 - 5) Assume suitable data if necessary.
-

SECTION – I

Q.1 Explain in detail role of Middleware Technologies in software development life cycle. **[10]**

OR

Explain different client server models. **[10]**

Q.2 Explain EJB software architecture and different EJB applications. **[10]**

OR

Explain EJB session beans, entity beans, life cycle of beans and EJB clients in detail. **[10]**

Q.3 Explain in detail Interface Definition Language (IDL) models and interfaces. **[10]**

OR

Explain CORBA component model in detail. **[10]**

SECTION – II

Q.4 Explain COM threading models and COM interfaces in detail. **[10]**

OR

Explain .NET architecture in detail. **[10]**

Q.5 Explain SOA enterprise software models in detail. **[10]**

OR

Explain Software Oriented Architecture (SOA) in detail. **[10]**

Q.6 Explain Web Services and Service Oriented Enterprise (SOE) in detail. **[10]**

OR

Explain different middleware tools in detail. **[10]**

* * * *
