M. SC. (Computer Science) SEM – II (Choice Based Credit & Grade System) : SUMMER - 2019

SUBJECT: JAVA APPLICATION PROGRAMMING

Day : Saturday

Date : 13/04/2019

Time: 03.00 PM TO 06.00 PM

Max. Marks: 60

S-2019-1250

N.B.:

1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Draw neat and labeled diagrams **WHEREVER** necessary.

Q.1 Explain the architecture of Remote Method Invocation with neat and well – labeled diagram. **(15)**

OR

Elaborate prepared, callable and scrollable statements with similarities and dissimilarities.

Q.2 A) Answer any **ONE** of the following: **(08)**

i) Elaborate with an example difference between TCP and UDP.

ii) Explain session tracking in JSP with code.

B) Answer any **ONE** of the following: **(07)**

i) Explain MVC architecture in detail.

ii) Describe connection pooling in JDBC.

Q.3 Answer any **THREE** of the following: **(15)**

a) Write the difference between JSP and servlet .

b) Differentiate between EJB and JavaBeans.

c) Write JDBC code to connect "Student" database.

d) Write Java program to test Socket functionality at server side.

e) What is meant by transaction management?

Q.4 Write short notes on any **THREE** of the following: **(15)**

a) Life cycle of Servlet

b) Java Naming Directory Interface

c) Struts application framework

d) JSP scripting tags

e) Types of JDBC driver

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