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T.E. (Computer Engineering)
WEB TECHNOLOGY
(2019 Pattern) (Semester - II) (310252)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 and Q.7 Q.8.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data, if necessary.*

Q1) a) Explain the following: **[8]**

   i) Process of transforming XML document.

   ii) HTTP session

   b) What is Servlet? Explain the life cycle of servlet. Illustrate with example. **[9]**

OR

Q2) a) Compare doGet and doPost methods in servlet. **[9]**

   b) Explain XML with respect to structure, declaration syntax, namespace. **[8]**

Q3) a) Write advantages of JSP over servlet and explain lifecycle of JSP. **[8]**

   b) Explain the Strut architecture with neat diagram and also explain the benefits of Strut. **[9]**

OR

Q4) a) Write a JSP program to demonstrate use of page directive, Scriplet Expression and Comment. **[9]**

   b) Write the benefits of Web services and explain SOAP, Rest and UDDI. **[8]**

P.T.O.

Q5) a) Explain the following with respects to PhP. **[9]**

      i)   Arrays

      ii)   Function

      iii)   Control statements in PhP

    b) How does this array work in PhP? Explain with example. **[9]**

<div align="center">OR</div>

Q6) a) Explain object oriented way to connect MYSQL database with PhP. **[9]**

    b) Draw and explain .NET framework with CLR, CLI. **[9]**

Q7) a) Explain scalar types and their operations in Ruby. **[9]**

    b) What are the positive aspects of Rails, explain with example. **[9]**

<div align="center">OR</div>

Q8) a) Write short note on: **[9]**

      i)   Rails with AJAX

      ii)   WAP and WML

    b) What is EJB? Explain types of EJBs. **[9]**

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