

Total No. of Questions : 8]

SEAT No. :

**P433**

[Total No. of Pages : 2

[6003]-536

**T.E. (Artificial Intelligence and Data Science)**

**WEB TECHNOLOGY**

**(2019 Pattern) (Semester - I) (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, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Assume suitable data, if necessary.

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

- i) XML namespace
- ii) HTTP session

b) What is servlet? Explain the session management technique in servlet.[9]

OR

**Q2) a) Write a simple servlet program to display hello World. [9]**

b) Explain DTD : Schema, elements, attributes. [8]

**Q3) a) Write advantages of JSP over servlet and explain life cycle of JSP [8]**

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

OR

**Q4) a) Write a JSP program to demonstrate use of JSP Action tags. [8]**

b) Write the benefits of web services and explain SOAP, REST and UDDI. [9]

**P.T.O.**

- Q5)** a) Explain the following with respects to Php [9]  
i) Session tracking  
ii) Function  
iii) Arrays.  
b) How does connectivity with mySQL work in Php. Explain with example. [9]

OR

- Q6)** a) Write a program to explain control statements in Php. [9]  
b) Explain the concepts of classes and pattern matching in Ruby. [9]
- Q7)** a) Explain scalar types and their operations in Ruby. [9]  
b) What is module? Differentiate classes and module. [9]

OR

- Q8)** a) Explain rails with request and response in rail application. [9]  
b) What is EJB? Explain types of EJB. [9]

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