**IT2**

**Hall Ticket Number:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **IV/IV B.Tech (Regular) DEGREE EXAMINATION** | | | |
| **January, 2024** | **Common to CE,EC,EE, EI&ME Branches** | | |
| **Seventh Semester** | **Web Technologies** | | |
| **Time:** Three Hours | | **Maximum:** 70 Marks | |
| *Answer Question No. 1 Compulsorily.* | | | (1X10 = 10 Marks) |
| *Answer* ***ANY ONE*** *question from each Unit.* | | | (4X10=40 Marks) |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1. |  | | | 10X1 = 10 Marks | | | |
| 1. | a) | | Write the basic structure of an HTML5 document. | | CO1 | | 1M |
|  | b) | | Give the purpose of DIV tag. | | CO1 | | 1M |
|  | c) | | Write the syntax for inserting an image into a web page. | | CO1 | | 1M |
|  | d) | | Differentiate between row spanning and column spanning. | | CO1 | | 1M |
|  | e) | | What are the different ways to insert CSS in a web page? | | CO2 | | 1M |
|  | f) | | Distinguish between ***display: block*** and ***display: none*** properties. | | CO2 | | 1M |
|  | g) | | Define Java Script. | | CO2 | | 1M |
|  | h) | | List any three document object methods. | | CO3 | | 1M |
|  | i) | | What is the main purpose of DOM? | | CO3 | | 1M |
|  | j) | | What is XML? | | CO3 | | 1M |
|  | k) | | What is use of XML namespace? | | CO3 | | 1M |
|  | l) | | List out any three XSLT elements. | | CO4 | | 1M |
|  | m) | | What are the features of AJAX? | | CO4 | | 1M |
|  | n) | | Define jQuery. | | CO4 | | 1M |
| **Unit - I** | | | | | | | |
| 2. | a) | Explain briefly about the following elements with an example.  i) <span> ii) <pre> iii) <p> iv) <ol> and <ul> | | | CO1 | 7M | |
|  | b) | Write an HTML Document that display the following table formats:   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  |  |  | |  |  | |  | | | |  |  | |  | |  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | |  |  |  |  | |  | |  | |  |  | |  |  |  | |  |  | | |  |   i) ii) | | | CO1 | 7M | |
|  |  | **(OR)** | | |  |  | |
| 3. | a) | Write about the concept of image maps in HTML with suitable example. | | | CO1 | 7M | |
|  | b) | Explain in detail about all form controls with an example. | | | CO1 | 7M | |
| **Unit - II** | | | | | | | |
| 4. | a) | What is CSS Box Model? Explain with an example program. | | | CO2 | 7M | |
|  | b) | Write about the significance of ***id*** selector, ***class*** selector*,* ***type*** selector and ***universa***l selectors with an example program. | | | CO2 | 7M | |
|  |  | **(OR)** | | |  |  | |
| 5. | a) | Explain in detail about all dialog boxes used in java script with an example program. | | | CO2 | 7M | |
|  | b) | Write about ***mouse*** and ***key board*** events with an example program. | | | CO2 | 7M | |
| **Unit - III** | | | | | | | |
| 6. |  | Explain about the following java Script Objects with an example:  i) Array object ii) String Object iii) Math Object iv) Number Object | | | CO3 | 14M | |
|  |  | **(OR)** | | |  |  | |
| 7. | a) | Explain in detail about Document Object Model with neat sketch. | | | CO3 | 7M | |
|  | b) | Explain how to insert and remove elements from a web page dynamically with an example. | | | CO3 | 7M | |
| **Unit - IV** | | | | | | | |
| 8. | a) | Differentiate between DTD and XSD with an example. | | | CO4 | 7M | |
|  | b) | Convert an XML document which contains 5 employee details (name, id, salary and location) into HTML using XSLT | | | CO4 | 7M | |
|  |  | **(OR)** | | |  |  | |
| 9. | a) | Distinguish between Traditional Web Application model and AJAX web application model. | | | CO4 | 7M | |
|  | b) | Describe the properties and methods of XML HTTP Request Object. | | | CO4 | 7M | |

****