

B.E./B.TECH. Degree Examination, December 2020

Fifth Semester

**CS18501 - USER INTERFACE TECHNOLOGIES**

(Regulation 2018)

Time: Three hours

Maximum : 80 Marks

Answer **ALL** questions

**PART A - (8 X 2 = 16 marks)**

1. UDP is a \_\_\_\_\_ transport protocol.
  - A. connectionless, reliable
  - B. connection-oriented, unreliable
  - C. connectionless, unreliable
  - D. None of the choices are correct
2. By default Hyperlinks are displayed with an underline. How do you remove the underline from all hyperlinks by using CSS code?
  - A. `a {text: no-underline;}`
  - B. `a {text-decoration: none;}`
  - C. `a {text-style: no-underline;}`
  - D. `a {text-decoration: no-underline;}`
3. In JavaScript the `x===y` statement implies that:
  - A. Both x and y are equal in value, type and reference address as well.
  - B. Both are equal in the value and data type.
  - C. Both are not same at all.
  - D. Both x and y are equal in value only.
4. Which of the following command can be used in mongo shell to show all the databases in your MongoDB instance?
  - A. `show dbs`
  - B. `show databases`
  - C. `show dbs -all`
  - D. `ls dbs`
5. Classify any four Network application programs with its port nos. and justify their purpose.
6. Write the Javascript code to print “Good Morning” using IF-ELSE condition.
7. Is it possible to insert multiple documents in to the collection in MongoDB? Justify.
8. How do you create HTTP server connection in NodeJS?

**PART B - (4 X16 = 64 marks)**

09. (a) Explain in detail: Structure of HTTP request and response messages with all its components through a case study. **(16)**

**(OR)**

- (b) Discuss about the Client/server strategies in Internet with suitable diagram and its application areas. **(16)**

10. (a) (i) Write notes on the below HTML5 elements with syntax and simple code: Canvas, SVG & Media tags. **(12)**

- (ii) Discuss about the Drag/Drop and Webstorage APIs. **(4)**

**(OR)**

- (b) Explain in detail about the CSS Background & Border properties with syntax and Code snippet. **(16)**

11. (a) Discuss in detail about sending an Ajax request in Javascript with an example & limitations of Ajax. **(16)**

**(OR)**

- (b) Explain DOM model and write HTML DOM code to search elements by getElementById(), GetElementsByTagName() and getElementsByClassName(). **(16)**

12. (a) Create a Collection Named Student in MongoDB. Insert at least 5 document in the collection student, each document should have student\_Name, Dept\_name as mandatory fields, provide about 6 fields and perform below operations. **(16)**

(i) Display all the documents

(ii) Display the documents with only Student\_Name and Type-of-admission.

(iii) Update the document which does not have Contact\_no, with new Contact\_no and display only the updated documents.

(iv) Count and Sort the documents with respect to a Student\_Name.

**(OR)**

- (b) How do you Create Modules in Nodejs? Write a Calculator Program to perform addition, multiplication and modulo operations using NodeJS Modules. **(16)**