[5948]-203

M.C.A. - I (Management)
IT - 23 : ADVANCED INTERNET TECHNOLOGIES
(2020 Pattern) (Semester - II)

Time : 2½ Hours]   *[Max. Marks : 50*

Instructions to the candidates:

1) All questions are compulsory.

2) Draw neat and labeled diagram wherever necessary.

Q1) Choose the correct option (½ mark each)   [10]

   a) Choose the item below that is not semantic element for text in HTML5.

     i)   <wbr>   ii)   <time>

     iii)   <mark>   iv)   <article>

   b) _____ is not a HTML5 tag.

     i)   <source>   ii)   <video>

     iii)   <slider>   iv)   <canvas>

   c) Which of the property in CSS used to change the background color of an element is_____

     i)   bgcolor   ii)   color

     iii)   background-color   iv)   All of the above

   d) Which selector is used to selects the elements that are the default among a set of similar elements?

     i)   :: after   ii)   : disabled

     iii)   : default   iv)   : checked

   e) Have to start Node REPL?

     i) $ node start   ii) $ node

     iii) $ node repl   iv) $ node console

   f) How to get an absolute path?

     i)   Os.resolve ('main. js')

     ii)   Path. resolve ('main. js')

     iii)   fs. resolve ('main. js')

     iv)   None of the above

   g) Which module is required for operating system specific operations?

     i)   OS module   ii)   fs module

     iii)   net module   iv)   None of the mentioned

P.T.O.

sh) Which command will show all the modules installed globally?
  i) $ npm ls- g   ii) $ npm ls
  iii) $ node ls- g   iv) $ node ls

i) REPL is for
  i)   Research Eval Program Learn   ii)   Read Eval Print Loop
  iii) Read Earn Point Learn   iv)   Read Eval Point Loop

j) What is the use of angular controllers in the application?
  i)   angular controller are used for controlling the data
  ii) angular controller are used for displaying the data
  iii) Both of the above are correct
  iv) None of the above

k) Which of the following is an advantages of Angulars JS?
  i)   AngularJS code is unit testable
  ii) AngularJS provides reusable components.
  iii) AngularJS uses dependency injection and makes use of seperation
       of concerns.
  iv) All of the mentioned

l) AngularJS is a_____framework.
  i)   HTML   ii)   Java
  iii) Javascript   iv)   SQL

m) On which of the architectural pattern AngularJS is based?
  i)   Observer pattern   ii)   Decorater patteren
  iii) MVC architecture pattern iv)   MVVM architectural pattern

n) Select the directive which hide or shows the HTML element.
  i)   ng- list   ii)   ng- hidi
  iii) ng- copy   iv)   ng- open

o) In PHP array index starts with position_____
  i)   1   ii)   0
  iii) 2   iv)   −1

p) _____ is not a variable scope in PHP.
  i)   Extern   ii)   Local
  iii) Static   iv)   Global

q) What is tue use of isset ( ) function in PHP?
  i)   It is used to check whether variable is set are not
  ii) It is used to check whether variable is free or not
  iii) It is used to check whether variable is string or not
  iv) None of the mentioned

r) Which of the following is the correct syntax to add comment in php?
   i) &------&
   ii) // ---------
   iii) / * ------ */
   iv) both b & c

s) Which of the following is the correct way of defining a variable in PHP?
   i) $ Variable name = value;
   ii) $ Variable _ name = value;
   iii) $ Variable = name = value;
   iv) $ Variable name as value;

t) Which of the following is tue use fo strlen( ) function in PHP?
   i) It returns the type of string
   ii) It returns the lengtu of string
   iii) It returns the value of string
   iv) It returns both value & type of string

Q2) a) What is Node.js module? Explain its types in brief. [5]

   b) Write a program to demonstrate ngif. & ngswitch statements. [5]

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

   a) What are different services in angular? [5]

   b) Write a program to read the query string using url property in Node js.[5]

Q3) a) What is NPM? How packages installed locally and globally? [5]

   b) Create angular program which will demonstrate the usage of component directive. [5]

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

   a) What are the Typesoript components? [5]

   b) Write a program using NPM which will convert entered string into lower case & upper case. [5]

Q4) a) Explain <audio> and <canvas> tags in HTML5 with suitable examples. [4]

b) Write a PHP script to demonstrate variables in PHP. Use Globals, local & global keyword to access variables. [4]

c) Differentiate between include & require [2]

OR

a) What are semantic elements and how it works in HTML5? [4]

b) Write a PHP script to demonstrate any 4 operaters. [4]

c) What is Vor- dump( ) function in PHP? [2]

Q5) a) What are selectors in CSS? Explain with suitable example. [4]

b) Write a PHP script to disply employees belongs to IT department and salary is in between 30, 000 – 80, 000 and store found records into another table. [6]
(Assume suitable table structure)

OR

a) What is CSS framework? What are the different sorts of css framework? [4]

b) Write a PHP script & insert at least 5 records into it & update specific record in database. Assume student table with required fields in database. [6]

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F.Y.M.C.A - (Management Faculty)
IT - 23 : ADVANCED INTERNET TECHNOLOGIES
(2020 Pattern) (Semester - II)

Time : 2½ Hours]

[*Max. Marks : 50*

Instructions to the candidates:
1) *All questions are compulsory.*
2) *Draw neat & labeled diagrams wherever necessary.*

[10]

Q1) Choose the correct option (½ mark each).

1) An article element contains _____.
   a) Audio
   b) Image
   c) Text or embedded content
   d) None of the above

2) What is the correct syntax of doctype in html 5?
   a) <: /doctype html>
   b) < doctype html>
   c) <!doctype html>
   d) <!DOCTYPE html>

3) _____ selector applies styles to elements that must be addressed before submission.
   a) : must
   b) : required
   c) : must-be
   d) : addressed

4) Which of the following CSS property is used to set the background image of an element?
   a) background - attachment
   b) background - image
   c) background - color
   d) none of the above

5) Choose the module which is used to serve static resources in Node.js?
   a) http
   b) node - static
   c) node - resource
   d) static

6) Which of the following command is used to install the Node.js express module?
   a) $npm install express
   b) $node install express
   c) $install express
   d) $npmnode install express

7) Node. js is written in _____.
   a) C, C++, Javascript
   b) C, Python, Javascript
   c) C, C++, Java
   d) C, C++, PHP

8) The Node. js modules can be exposed using:
   a) expose
   b) module
   c) exports
   d) all of the above

9) Which method of fs module is used to open a file?
   a) fs. open (path, flags [,mode], call back)
   b) fs. openFile (path, flags [,mode], call back)
   c) fs. openPath (path, flags [,mode], call back)
   d) none of the above

10) Which of the following is the correct syntax for writing AngularJS expressions?
   a) (expression)
   b) {{expression}}
   c) {{{expression}}}
   d) [expression]

11) Which of the following syntax is used to create a module in AngularJS?
   a) var myModule = angular.module ( );
   b) var myModule = new Module ( );
   c) module ("app", [ ]);
   d) none of the above

12) Using _____ you can share data between controller and view.
   a) $ Scope
   b) Services
   c) Factory
   d) $ Rootscope

13) _____ directive is used to start an angularJs application.
   a) ng-init
   b) ng-app
   c) ng-controller
   d) ng-model

14) _____ is not a validation directive in angularJS.
   a) ng-app
   b) ng-required
   c) ng-minlength
   d) ng-pattern

15) Variable name in PHP starts with.
   a) !(Exclamation)
   b) $(Dollar)
   c) &(Ampersand)
   d) #(Hash)

16) Which of the following is used to display the output in PHP?
   a)   Echo   b)   Write
   c)   Print   d)   Both (a) & (c)

17) Which of the following is the correct way to create a function in PHP?
   a)   Create myFunction(~)
   b)   New-function myFunction( )
   c)   Function myFunction( )
   d)   Create function myFunction( )

18) Which of the following function is used to set cookie in PHP?
   a)   Createcookie ( )   b)   Makecookie ( )
   c)   Setcookie ( )   d)   None of the above

19) PHP stands for
   a)   Hypertext Preprocessor   b)   Pretext Hypertext Preprocessor
   c)   Personal Home Processor   d)   None of the above

20) What will be the output of the following program?
```
<?php
    $ var 1 = "Hello";
    $ var 2 = "World";
    echo $var1, $var2;
?>
```
   a)   HelloWorld
   b)   Hello, World
   c)   Hello World
   d)   Hello + World

Q2) a)   Explain Event handling in Node. js with suitable example.   [5]
    b)   Write a program to display string in uppercase & lowercase using Angular JS filters.   [5]

                              OR

    a)   Explain ng-app, ng-model and hg-bind with suitable example.   [5]
    b)   Write a program for multiplication of 2 numbers using event handling in node. js. Call multiplication function as an event call.   [5]

Q3) a) What is Node. js? Explain its working & features? [5]

    b) Create a login form, both username & password fields are mandatory, after entering the values transfer user control to next web page showing message as "You have login successfully". (Use ng-href & ng-required).[5]

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

    a) Explain routing in AngularJS with suitable example. [5]

    b) Write a program to show current date and time using user defined module in node. js. [5]

Q4) a) Explain video & svg tag in HTML 5 with suitable example. [4]

    b) Write a pHp script to demonstrate multidiamensional arrays. [4]

    c) What is cookie & session in PHP [2]

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

    a) What is HTML5. Explain its features and advantages. [4]

    b) Write a PHP script to create a database using MYSQL. [4]

    c) What is Define function in PHP. [2]

Q5) a) What is pseudo classes in CSS explain with suitable example. [4]

    b) Write a PHP script to design a form for exam registration. Insert 5 records in database and display all the inserted records on new page. [6]

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

    a) What are the objectives of CSS architecture. [4]

    b) Write a PHP script to design a form to reschedule the journey dates of flights and display the updated information on new web page. [6]

<div align="center">✿ ✿ ✿</div>

[5865] – 203   4

Subject Code : IT-23   Total Marks : 50
Date : 05/08/2022   Time : 10:00 AM to 12:30 PM

Note: All questions are Compulsory

Q 1) Select the correct alternative   [0.5*20=20Mark]

1. -------------input element defines a field for entering URL. a. \<input type=radio> b. \<input type=color> c. \<input type=URL> d. \<input type=ULR>	2. Which of the following statements are true? a. Node js is a server side language b. Node js is a client side language c. Both client side language & server side language d. None of the above
3. -------------input element defines a BROWSE BUTTON TO UPLOAD FILE a. \<input type=file> b. \<input type=browse> c. \< input type=upload> d. \<input type=file-upload>	4. Which of the following method of fs module is used to get file information? a. fs.open(path, flags[, mode], callback) b. fs.stat(path, callback) c. fs.readFile(path, flags[, mode], callback) d. None of the above.
5. -------------------attribute of\<audio> tag specifies that the audio output should be muted. a. src b. muted c. loop d. controls	6. What is the default scope in the Node.js application? a. Global b. Local c. Global Function d. Local to object
7. The PHP code is embedded with HTML tags using------ a. \<?php ---?> b. \<#php-----?> c. \<$php --- ?> d. \</php ---/>	8. Bootstrap is Free-front end framework a. True b. False

9. To draw on the canvas, authors must first obtain a reference to a context using the _____ method of the canvas interface element.
   a. getImageData
   b. toDataURL
   c. getContext
   d. restore

10. What is Callback ?
   a) The callback is a technique in which a method calls back the caller method.
   b) The callback is an asynchronous equivalent for a function.
   c) Both of the above.

11. Which of the following is the correct syntax for referring the external style sheet?
   a. <style src = example.css>
   b. <style src = "example.css" >
   c. <stylesheet>   example.css </stylesheet>
   d. <link   rel="stylesheet" type="text/css" href="example.css">

12. Which of the following command is used to start a REPL session?
   a) $ node
   b) $ node start
   c) $ node repl
   d) $ node console

13. User defined function declared with ----- keyword?
   a. Function
   b. Myfunction
   c. Echo
   d. None of these.

14. Which of the following is the correct syntax for writing AngularJS expressions?
   a. (expression)
   b. {{expression}}
   c. {{{expression}}}
   d. [expression]

15. ----------string function in PHP converts the first character of each word in a string to uppercase
   a. ucwords()
   b. uc_words()
   c. up_word()
   d. upwords()

16. Which of the following syntax is used to create a module in AngularJS?
   a. varmyModule= angular.module();
   b. var   myModule=   new Module();
   c. module("app", []);
   d. None of the above

17. ------method in php is used to check whether variable has

18. Which of the following css property is used to define a delay before an

value or not ,this help us to know if the button is clicked or not a) 15. isset() b) 16. set() c) 17. setting() d) 18. is_set()	animation starts? a. Delay b. Transition delay c. Transform delay d. None of the above
19. Which of the following CSS Gradient Functions sets the direction and colors of a gradient that fades from one color to the next in a straight line? a. Gradient() b. Line gradient() c. Linear gradient() d. None of the above	20 ------ used to identify user or its machine and track activities created on the user computer. a. cookie b. Request c. session d. domain

Q2) Answer the following : [10 marks]

a)What are the decision making statements in PHP explain each with example   3

b)Explain with example various Semantics and non semantics elements in HTML 5.   3

c)Create a webpage names Audio.html to set an audio file in web page using html 5 elements. The audio file must play as soon as the webpage is loaded in browser and it will start over again when it is completed   4

OR

Q2) Answer the following : [10 marks]

a) What is NPM ? Explain with example.   3

b) Explain MVC in reference to Angular?   3

c) Create a website with two PHP webpage in which each webpage is connected. The first page of the website contains two form fields for taking 'name' and 'password' from users. On onclick event, details of forms should be displayed on secondwebpage.   4

Q3) Answer the following : [10 marks]

a) Explain in detail arrays in PHP with example.   3

b) What are the modules in Node.js?   3

c) Write Html 5 code to do designing of the following form :   4

Registration Form

First Name [____]
Last Name [____]
Age
Email Id [____]
Alternate Email Id [____]
Address [____]
Phone [____]
Occupation [____]
O I Agree Terms & Conditions
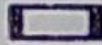O I disagree   [Submit] [Reset]

OR

Q3) Answer the following [10 marks]

a) Define Scope in AngularJS. 3
b) Enlist the features of Laravel framework. 3
c) Write a program to display following canvas. 4

This is a sample text

Q4) Answer the following : [10 marks]

a) Enlist array and explain declaration of array with any one example. 3

b) Explain REPL features in Node JS with example 3
c) Write a PHP Program to insert a roll number ,name, age, division and gender into database using HTML Post Method in form 4

OR

Q4) Answer the following : [10 marks]

a) What is angular JS? What are the key features of Angular . 3
b) Explain the steps of database connectivity in PHP 3
c) Write a PHP function to count the total number of vowels (a,e,i,o,u)from the string. Accept a string by using HTML form. 4

Q 5) Write short notes (Attempt any Two): [10 marks]

a) $_COOKIES
b) $_SESSION
c) Type script in Angular JS
d) Web server creation in Node JS