TAMILNADU HIGHER SECONDARY SECOND YEAR

COMPUTER APPLICATIONS

TENTATIVE ANSWER KEY

EXAM : 12-03-2020

1. **D)MUSICAL INSTRUMENT DIGITAL IDENTIFIER**

2. **C) – CREATE A NEW DOCUMENT**

3. **B) RECORD**

4. **A)INSERT**

5. **B)//**

6. **C)3**

7. **C) hi**

8. **a) for**

9. **b) Query**

10. **)b) Node**

11. **d)Transmission Control Protocol**

12. **)d) .(dot)**

13. **Tim Berners Lee**

14. **d) a and b**

15. **b)Wireless Fidelity**

PART II

16. Select the text to be deleted.Press **Delete or Backspace** in the keyboard (or)

 Edit > Clearcommand.

17. **Editing encompasses many tasks,such as inserting and deleting words and phrases, correcting errors, and moving and copying text to different places in the document.**

18. The candidate key that is chosen to perform the identification task is called the primary key

19. A significant output of simulation is the trace files. Trace files can document every incident that happened in the simulation and are used for examination.

20. Validation is a process of checking the input data submitted by the user from client machine. There are two types of validation Client-Side Validation and Server Side Validation

21. fopen() is a system function available in PHP. This function helps to open a file in the server. It contains two parameters one for the file and the other one specifies in which mode the file should be opened (Read/Write).

22. When the people with different opinions do get together on online, many discussions seem to degenerate into personal attacks and so-called "flame wars."

23. URL is divided into 2 types
    1. Absolute URL   2. Relative URL

24. **for each ($array as $value)**

    {

    code to be executed;

    }

Part III

25. Animation is the process displaying still images so quickly so that they give the impression of continuous movement.
    There are two types of Animations i) Path Animation   ii)Frame Animation

26. Any text or object that you place on the master page will appear on the entire document pages to which the master is applied. It shortens the amount of time because you don't have to create the same objects repeatedly on subsequent pages.

27. A Web server is a Software that uses HTTP (Hypertext Transfer Protocol) to serve the files that form Web pages to users A Web browser (commonly referred to as a browser) is a software application for accessing information on the World Wide Web.

28. There are four major components of EDI.

They are

- Standard document format
- Translator and Mapper
- Communication software
- Communication network

29. Looping Structures are useful for writing iteration logics. It is the most important feature of many programming languages, including PHP. They are implemented using the following categories.

1) for Loop   2) foreach Loop   3) While Loop   4) Do While Loop

30. □PHP and MySQL has become very popular server side web scripting language in Internet. □MySQL and PHP scripting language connectivity, which covers Database connection establishment, Database Selection, SQL statement execution, and Connection termination.

31. It is a private network within an enterprise to share company data and computing resources between the employees. It may consist of many interlinked local area networks. It includes connections through one or more gateway (connects two networks using different protocols together known as protocol convertor) computers to outside Internet.

32. The cryptocurrency units are created by the solution of cryptographic tasks called mining. The miners not only generate new monetary units, but also initiate new transactions to the blockchain. As a reward, they will receive new Bitcoins.

33. User Defined Function (UDF) in PHP gives a privilege to user to write own specific operation inside of existing program module.

```
function functionName()
{
Custom Logic code to be executed;
}
```

PART IV

34) a)

1	Text Formats	• RTF is a primary file format in 1987 by Microsoft. • Plaintext file is opened, read, and edited with text editors.
2	Image Formats	• TIFF is common in DTP in world is a high quality output. • GIF is a compressed image format. • JPEG was designed to maximum image compression uses lossy compression technique. • TGA is the first popular format for high resolution images.
3	Audio file Formats	• WAV is the most popular file format in windows for storing uncompressed sound files. • MP3 is the most popular format for storing and downloading music. Microsoft
4.	Video file format	• AVI is the video file format for windows. Sound and picture elements are stored in the file. • MPEG is a digital video and audio compression under the International Standards Organization by the group of people.

or

Tool	Toolbox	Cursor	Use
Pointer Tool			Used to select, move, and resize text objects and graphics.
Text tool	T		Used to type, select, and edit text.
Rotating tool			Used to select and rotate objects.
Cropping tool			Used to trim imported graphics.
Line tool		+	Used to draw straight lines in any direction.
Constrained line tool		+	Used to draw vertical or horizontal lines.
Rectangle tool		+	Used to draw squares and rectangles.
Rectangle frame tool		+	Used to create rectangular placeholders for text and graphics.
Ellipse tool		+	Used to draw circles and ellipses.
Ellipse frame tool		+	Used to create elliptical placeholders for text and graphics.

35) Array is a concept that stores more than one value of same data type in single array variable. Array is a data type which has a multiple values in a single variable.

Array Syntax

$Array_Variable = array("value1", "value2", "value3");

Multidimensional Array

A multidimensional array is an array containing one or more arrays.

Syntax

array(array(elements),
array(elements),);

or

Syntax:

```
switch (n) {
    case label1:
        code to be executed if n=label1;
        break;
    case label2:
        code to be executed if n=label2;
        break;
    case label3:
        code to be executed if n=label3;
        break;
    ...
    default:
        code to be executed if n is different from all labels;
}
```

Example:

```php
<?php
$favcolor = "red";
switch ($favcolor) {
    case "red":
        echo "Your favorite color is red!";
        break;
    case "blue":
        echo "Your favorite color is blue!";
        break;
    case "green":
        echo "Your favorite color is green!";
        break;
    default:
        echo "Your favorite color is neither red, blue, nor green!";
}
?>
```

36)a)

1.PHP Open a File
The fopen() is a system function. This function helps to
open a file in the server.

```
<?php
$myfile = fopen("student. txt","r") or die ("Unable to open file");
?>
```

syntax
$file_Object = fopen("File", "Read/Write Mode") or die("Error message");

2.PHP Read a File
The fread() function reads from an open a file.

```
<?php fread($myfile.filesize("student.txt"));
?>
```

syntax
fread($file_object, filesize("filename"));

3.PHP Close a File
The fclose() function is used to close an opened file.

```
<?php
$myfile = fopen("student.txt", "r");
?>
```

syntax fcPloase($file_Obdject);   as
4.PHP Write a File
The fwrite() function is used to write a to a file.
fclosea($mlyfile); ai

```
<?php
$myfile= fopen("new_file.txt", "w");
$txt = "school name"; fwrite($myfile,$txt); fclose($myfile);
?>
```

syntax
fwrite($myfile, $txt);
5.PHP Appending a File
The file_put_contents() function is used to Append to a file.

```
<?php
$txt="student id";
$myfile= file_put_contents("FILE_APPEND");
```

?>
syntax
file_put_contents(file,data,mode,context);

37) **a)**

OSI Layers	Definition
1. Physical Layer	This is the 1st layer, it defines the **electrical and physical** specifications for **devices**.
2. Data Link layer	This is the 2nd layer, it guarantees that the **data transmitted**. "802.3 for **Ethernet"** and "802.11 for **Wi-Fi"**
3. Network layer	This is the 3rd layer, determining the **path of the data** packets is using **IP Address**.
4. Transport layer	This is the 4th layer guarantees the **sending data is successful**. It includes error checking operation.
5. Session layer	This is the 5th layer identifies the **system session** between
6. Presentation layer	This is the 6th layer **Encryption and decryption** protocols occur in this layers such as Secure Socket Layer**(SSL)**
7. Application layer	This is the 7th layer it acts the **user interface** platform comprising of **software within the system**.

or

b) Explain the type of Network Cables.

☐ **Coaxial Cables**

☐ This cable was invented at late 1880's which is used to connect the television sets to home antennas.

☐ This cable is used to transfer information in 10 mbps. The cable is divided into thinnet and thicknet cables.

☐ Coaxial cables are also used for dish TV where the setup box and television is connected using the coaxial cable only.

☐ **Twisted Pair Cables**

☐ It is type of cable with two or more insulated wires twisted together. It started with the speed of 10 mbps.

☐ There are two types of twisted pair cables, Unshielded Twisted Pair and Shielded Twisted pair cables

☐ **Fiber Optics Cables:**

☐ This cable strands of glass and pulse of light is used to send the information.

☐ They are mainly used in Wide Area Network (WAN)

☐ These cables are placed in deep underground to avoid any damage to the cables.

☐ Single-mode cables are used for long distance transmission and at a high cost.

☐ Multi-mode cables are used for short distance transmission at a very low cost.

☐ **USB Cables**

☐ The Universal Serial Bus are used to connect keyboard, mouse and other peripheral devices.
☐ To connect the Internet through the USB called dongles.

☐ The dongle is a small peripheral device with a sim slot and connects the Internet.

☐ **Serial and Parallel cables**

☐ In the year of 1980s to 1990s the Ethernet and the USB were not developed.

☐ Then the Serial and Parallel interface cables are used to connect the Internet to the system.
☐ The serial port will send 1 bit at one time. The parallel port will send 8 bit at one time.

☐ Parallel cables are used to connect to the printer and other disk drivers.

38) a)What are the advantages and disadvantages of E-Commerce to a consumer?

Advantages of E-Commerce

- E-Commerce system is operated on all days business 24 x 7.
- Speed is a major advantage in E-Commerce.
- More cheaper and effective product.
- Comparing and evaluating the same product at different websites.
- Customers can shop from home or any where.
- Payments can also made through online.

Disadvantages of E-Commerce

- E-Co

Digital Signature is a mechanism that is used to verify that a **particular digital document.**	Digital Certificate is a computer file Which **officially approves the certificate.**

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merce we should wait between placing the order and the product in hand.

- We can see pictures of a cloth, but not its quality.
- Delivery and security issues.
- The possibility of credit card number theft.
- Transaction problems.
- Lack of touch and feel of product.

or

b)

Digital signatures are used to verify the trustworthiness of the data being **sent**	Digital certificates are used to verify the trustworthiness of the **sender.**
It provides **authentication, non-repudiation and integrity**	It provides **authentication and security**.
A digital signature is created using a **Digital Signature Standard** (DSS). **Ex:** SHA1 SHA2	A digital certificate works o the principles of **public key cryptography standards** (PKCS). **Ex:** X.509 or PGP format.
The document is encrypted at the sending end and decrypted at the receiving end using asymmetric keys.	A digital certificate consist of certificates **owner name** and public key, **expiration date**, **Certificate Authority's name** and **digital Signature.**

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things will happen. "