

T8112CA

Tenkasi District Common Examinations
Second Revision Test - January 2023

Standard 12

COMPUTER APPLICATION

Time Allowed: 3.00 Hours

Maximum Marks: 70

- Instructions:**
1. Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.
 2. Use Blue or Black ink to write and underline and pencil to draw diagrams.

Part - I

Note: i) All questions are compulsory. 15×1=15

ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

- 1) Write the expansion of MPEG.
 - a) Musical Picture Experts Group
 - b) Musical Photo Experts Group
 - c) Moving Photographic Experts Group
 - d) Moving Picture Experts Group
- 2) What is the Keyboard shortcut to magnify part of a page with zoom in tool in Pagemaker?
 - a) Ctrl+Spacebar
 - b) Alt+Spacebar
 - c) Ctrl+Alt+Spacebar
 - d) Ctrl+Alt+P
- 3) Which one of the following is not a DML command?
 - a) Create
 - b) Alter
 - c) Insert
 - d) Select
- 4) The variable in PHP begins _____ symbol.
 - a) <?
 - b) #
 - c) \$
 - d) ?>
- 5) How many types of functions are there in PHP?
 - a) 5
 - b) 4
 - c) 3
 - d) 2
- 6) The loop exclusively used for array is _____.
 - a) While
 - b) Do.....While
 - c) For
 - d) for each
- 7) In PHP _____ variables collect the data and prepare the response accordingly.
 - a) method
 - b) \$_GET, \$_POST
 - c) fread(), fwrite()
 - d) All the above
- 8) How many parameter are required for MySQLi connect function in PHP?
 - a) 2
 - b) 3
 - c) 4
 - d) 5
- 9) In mobile network, land areas for network coverage was distributed as
 - a) Firmware
 - b) Cells
 - c) Range
 - d) Service
- 10) _____ refer to other host computers by using names rather than numbers.
 - a) DNS
 - b) TCP
 - c) FTP
 - d) SMTP
- 11) Which is the contiguous area up to which the server has access?
 - a) Zone
 - b) Domain
 - c) Resolver
 - d) Name servers
- 12) Which of the following connector is called as champ connector?
 - a) RJ11
 - b) RJ21
 - c) RJ61
 - d) RJ45
- 13) The dotcom phenomenon deals with _____.
 - a) Textile industries
 - b) Mobile phone companies
 - c) Internet based companies
 - d) All the above
- 14) Which of the following is not a category of micropayment?
 - a) Buying a movie ticket
 - b) Subscription to e-journals
 - c) Buying a laptop
 - d) Paying for smartphone app
- 15) 3-D secure, a protocol was developed by
 - a) VISA
 - b) MASTER PAY
 - c) RUPAY
 - d) PAYTM

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2

Part - B

Answer any six questions. Q.No. 24 is compulsory:

6x2=12

- 16) Define animation and their features.
- 17) Write the difference between SQL and MySQL.
- 18) What are the common usages of PHP?
- 19) What are the basic HTML form controls?
- 20) What are the common uses of computer network?
- 21) Expand - HTTPS, SMTP.
- 22) Write a short note on out sourcing.
- 23) List the different types of security technologies in E-Commerce.
- 24) What are the popular macro on-line payment systems?

Part - C

Answer any six questions. Q.No.33 is compulsory:

6x3=18

- 25) How do you rejoin split blocks?
- 26) Write a short notes on Array.
- 27) Differentiate for each and for loop.
- 28) Write Mysqli connection syntax with example.
- 29) Differentiate IPv4 and IPv6.
- 30) Write a short note on RJ45 connector.
- 31) Explain B2G module in e-commerce.
- 32) List the various layers of EDI.
- 33) Compare and contrast the credit card and debit card.

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Part - D

Answer all the following questions:

5x5=25

- 34) a) Explain the steps involved in Multimedia production.
(OR)
b) Write the steps to draw a star using polygon tool.
- 35) a) Discuss on various database models available in DBMS.
(OR)
b) Explain operators in PHP with example.
- 36) a) Explain in detail of File handling functions.
(OR)
b) Explain the generation of mobile networks.
- 37) a) Explain briefly the components of DNS.
(OR)
b) What is meant by Registered Jack? Explain briefly the types of Jacks.
- 38) a) List all the E-commerce business models and explain any four briefly.
(OR)
b) Briefly explain Electronic Account transfer and its types.

DATE:

Tenkasi District

Second Revision - Answer key - 2023

Art COMPUTER Applications.

Part - I

1. d) Moving Picture Experts Group
2. a) Ctrl + space bar
3. c) Insert
4. ~~ag~~ c) \$
5. c) 3
6. d) for each
7. b) \$GET, \$POST
8. c) 4
9. b) cells
10. a) DNS
11. a) zone
12. b) RJ21
13. c) Internet based companies
14. c) Buying a laptop
15. a) VISA

Part - B

16. Animation:

* Animation is the process of displaying still images so quickly, so that they give the impression of continuous movement

← 1 marks

* Animations may be in two or three dimensional

← 1 marks

17. Difference between SQL and MySQL.

SQL	MySQL
SQL is a programming language designed mainly for managing data in a RDBMS.	MySQL is an open source software that allows managing Relational Database.

← 2 marks

SPB
DATE:

OR

To Query and operate Database System.

It provides the flexibility of Changing the source code as per needs.

18. Common usages of PHP:

- * It is very simple and light weight
- * It is open source server side scripting language
- * It can easily embed with HTML and other client side scripting languages
- * It also creates dynamic and interactive webpages in the real time web development projects.

- Any two points - 2 marks

19. Basic HTML Form Controls:

- * Text inputs
- * Check box
- * File select
- * Buttons
- * Radio box
- * Form tag.

4 x 1/2 = 2 marks

20. Common uses of Computer network

- * Communication
- * Data (or) Software sharing
- * Resource sharing
- * Money saving.

4 x 1/2 = 2 marks

21. HTTPS
SMTP

- HyperText Transfer Protocol Secure 1 mark
- Simple Mail Transfer Protocol. 1 mark

22. Outsourcing:

- * Outsourcing is hiring third party service provider to handle business on half
- * If a company's work is hired to another company, it can be termed as outsourcing.

- 2 marks

23. Security Technologies:

- * Encryption Technology
- * Authentication Protocols.
- * Authentication Technology

- 2 marks.

24. Popular Macro online Payment systems

- * card based Payment systems
- * Electronic cash Payment systems
- * Electronic Account Transfer
- * mobile Payment systems
- * internet Payment systems.

4 x 1/2 = 2 marks.

Part-C

25. retain split blocks:

1. Place the cursor > bottom handle > second text block > UP to top
2. Place the cursor > bottom handle > first text block > bottom handle down.

- 3 marks

26. Array:-

* Array is a concept that stores more than one value of the same data type in single array variable

- 2 marks

* They are 3 types of array.

- * Indexed Arrays
- * multiDimensional arrays.
- * Associative

- 1 marks.

<p>27. Foreach</p> <ol style="list-style-type: none"> 1. The for loop is used when you know how many times you want to execute a statement or block of statement 2. It is used when you know in advance how many times the script should run. 3. <u>Syntax:</u> 	<p>For loop - For</p> <p>The foreach loop is used for looping through the values of an array</p> <p>The loop iteration depends on each key value pair in the array.</p> <p><u>Syntax:</u></p>
--	--

or any 3 difference

- 3 marks

28. MySQLi connection syntax:

```
mysqli_connect("server name", "user name", "password", "DB name")
```

Example:

```
$Conn = mysqli_connect($server name, $user name, $password, $DB name);
```

- 1 1/2 marks

Q9.

IPv4

IPv6

1. IPv4 address is a 32 bit unique address given to a computer system.

IPv6 address is a 128 bit unique address given to a computer system.

2. The number of addresses that can be formed in IPv4 is 2^{32}

The number of addresses that can be formed in IPv6 is 2^{128}

3. IP address represented by

- Binary notation
- Dotted Decimal notation.

IP address represented by 4 digit hexa decimal numbers separated by colon symbol.

4

Eg: 00110001, 128.143.137.144

2001:0000:32313:DEF1

3 marks

(or) any 3 differences.

30. RJ45 connector:

* It is a small plastic cup which will be used to connect the wire inside the connector and ready to connect the internet

* Wiring Schemes specifies how the wires to be connected with RJ45 connector

* There are two wiring schemes available to terminate the twisted pair cable on each end, which are T-568A and T-568B.

3 marks

31. B2G module:

* B2G is a business model that expect a business organizations sell products, services or information to Government or to its administrators.

(or)

~~When a company get paid for its goods services by the government through internet it is called as B2G model.~~

→ 2 marks

Example: The Government or its administration buys laptops for students
(or) ANY EXAMPLE

→ 1 mark
→ 1 mark

32. Various layers of EDT

- 1. Semantic layer
- 2. Standard translation layer
- 3. Text format layer
- 4. Physical layer.

→ 3 marks

33. Credit card

- 1. Pay later system
- 2. The credit card issuer lends money to customer with an agreed interest.

debit card.
Pay now system
The debit card deducts the amount directly from customer's bank account.

- 3. The bank account is not pre requisite for issuing a credit card.

The bank account is most for issuing a debit card.

(or) any 3 differences.

→ 3 marks

Part-D

34 a) Steps involved in Multimedia production.

Explain any 6 headings.

- 1. Conceptual Analysis and Planning
- 2. Project design
- 3. Pre Production
- 4. Budgeting
- 5. multimedia Production team
- 6. Hardware/Software selection.
- 7. Defining the Content
- 8. Preparing the structure.
- 9. production
- 10. Testing
- 11. Documentation
- 12. Delivering the multimedia Product.

Headings: → 2 marks

EX Planation: → 3 marks.

b) To draw a star:

1. Click on the Polygon tool from the toolbar
2. Click and drag anywhere on the screen
3. Release mouse button when the polygon is of the desired size.
4. Choose Element > Polygon settings in the menu bar
5. Type 5 in the number of sides text box
6. Type 50% in Star inset text box
7. Click OK.

- 5 marks

35) a) Database Models:

Explain the following headings.

1. Hierarchical Database model
2. Network model
3. Relational model
4. Object oriented database model.

Headings: 1 marks

Explanation: 2 marks

b) Operators in PHP:

1. Arithmetic operators
2. Assignment >
3. Comparison >
4. Increment/Decrement operators
5. Logical >
6. String >

(operators list with example of above type)

- 5 marks

36) a) File handling Functions:

Explain about the functions.

- fopen ()
- fread ()
- fclose ()
- fwrite ()

- 5 marks

b) Generations of mobile networks.

First generation (1G) - 1981 - NMT 1 launch

Second)) (2G) - 1991 - GSM)) launch

Second to Third - 2000 - GPRS))

Generation Bridge 1 launch

Third generation (3G) - 2003 - UK 3G launch

Fourth Generation (4G) - 2017

Fifth Generation (5G) - 2019 - 7 marks

Explanation: - 4 marks

977 a) Components of DNS:

- * Namespace
 - * Name server
 - * Zone. - 1 mark
- Explanation - 4 marks.

b) Registered Jack:

* Registered Jack commonly known as RJ is a network interface used for network cabling wiring & Jack construction.

* It is used to connect different data equipment & telecommunication devices. - 1 mark

Types of Jacks:

1. RJ 11
2. RJ 14 & RJ 61
3. RJ 21

Explanation: - 1 mark

- 3 marks.

38) a) E-commerce Business models:

1. Business to Business (B2B)
2. " " " " Consumer (B2C)
3. " " " " Government (B2G)
4. Consumer " " Business (C2B)
5. " " " " Consumer (C2C)
6. " " " " Government (C2G)
7. Government to Business (G2B)
8. " " " " Consumer (G2C)
9. " " " " Government (G2G)

Any Four business model Explanation of Example.

[- 2 marks]

[- 3 marks]

b) Electronic Account Transfers

* EFT is the electronic transfer of money over an online network

* The amount sent from the sender's bank branch is credited to the receiver's bank branch on the same day in batches.

Types:

Real Time Gross Settlement (RTGS)

ECS (Electronic ~~Account~~ Clearing Services)

EFT (Electronic Funds Transfer)

RTGS (Real Time Gross Settlement System)

Explanation

[- 5 marks]

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