

Ts12CA

Tenkasi District Common Examinations
Common Half Yearly Examination - December 2022

Standard - 12
COMPUTER APPLICATION

Time Allowed: 3.00 Hours

Maximum Marks: 70

PART - I

Answer all the questions.

15 × 1 = 15

Choose the correct answer and write the option code with answer:

1. GIF use _____ colour look up table.
 - a) 8 bit
 - b) 13 bit
 - c) 16 bit
 - d) 13 Byte
2. What is the shortcut key to get the Goto dialog box in pagemaker.
 - a) Ctrl + Alt + Spacebar
 - b) Ctrl + T
 - c) Ctrl + Alt + G
 - d) Alt + G
3. Which Key is also known as Compound key.
 - a) Primary key
 - b) Foreign key
 - c) Super key
 - d) Composite key.
4. Who invented PHP?
 - a) Tim Berners Lee
 - b) Rasmus Lerdorf
 - c) Edgar F. Cadd
 - d) charless Babbage
5. Associative arrays are a _____ pair data structure.
 - a) Single value
 - b) Key value
 - c) Double volue
 - d) string value
6. Which statement executes a block of code corresponding to the match
 - a) if
 - b) if..else
 - c) if...else if...else
 - d) switch
7. How many no.of types the below loop program executes?
for (\$x=0;\$x<5;\$x++) echo "Hai"
 - a) 5
 - b) 4
 - c) 6
 - d) 3
8. Wi-Fi Stands for
 - a) Wireless Fidelity
 - b) Wired Fidelity
 - c) Wired Fibre optics
 - d) Wireless Fibre optics
9. NS 2 comprises of _____ key language?
 - a) 13
 - b) 3
 - c) 2
 - d) 4
10. Which of the following is not a characteristics of E-Commerce?
 - a) Product can not be inspected physically before purchase
 - b) Goods are delivered instantly
 - c) Resource focus supply side
 - d) Scope of business in global
11. Secure Electronic Transaction (SET) was developed in
 - a) 1999
 - b) 1996
 - c) 1969
 - d) 1997
12. Which is the first industry-specific EDI standard?
 - a) TDCC
 - b) VISA
 - c) Master
 - d) ANSI
13. which payments system are also called on push payment?
 - a) NEFT
 - b) EFT
 - c) E-wallet
 - d) RTGS
14. How many pins are used in RJ45 cables?
 - a) 8
 - b) 6
 - c) 50
 - d) 25
15. In domain name, sequence of labels are separated by
 - a) ;(semi-colon)
 - b) .(dot)
 - c) :(colon)
 - d) ,(comma)

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PART - II**Answer any six questions. Question Number 24 is compulsory. 6×2=12**

16. List out multimedia components.
17. How do you insert a page in pagemaker?
18. State few advantages of Relational databases.
19. What are the types of scripting languages?
20. What is Query string?
21. List out the benefits of Wi-Fi.
22. What is a resolver?
23. Define-EDI.
24. Define Electronic Payment system.

PART - III**Answer any six questions. Question Number 33 is compulsory. 6×3=18**

25. What is relationship in database? List two types.
26. Write short notes on Array.
27. Write the features of Looping structure.
28. Differentiate Get and Post method.
29. What is meant by Artificial Intelligence?
30. Write a short note on the main components of a RFID system.
31. What are the main functional areas open NMS?
32. Explain briefly Anatomy of a credit card.
33. Explain 3D secure payment protocols.

PART - IV**Answer all the questions.****5×5=25**

34. a) Explain in detail about multimedia Production team Roles and Responsibilities.

(OR)

- b) Explain the tools in Pagemaker Toolbox.

35. a) What is attributes in DBMS? Explain its types?

(OR)

- b) Discuss in detail about PHP data types.

36. a) What is function in PHP? Explain their types.

(OR)

- b) Discuss in detail about switch statement with example.

37. a) Discuss about OSI model with its layers.

(OR)

- b) Explain how the DNS is working.

38. a) Explain the types of network cables.

(OR)

- b) Differentiate symmetric key Encryption and Asymmetric key Encryption.

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Tenkasi DistrictHalf yearly Examination - 2022Answer Key.XII Computer Application.PART-I

1. a) 8bit (or) 13bit (b)
2. c) ~~Alt+ct~~ (c) Ctrl+Alt+C1
3. d) composite key.
4. b) Rasmus Lerdorf
5. b) key value.
6. d) switch
7. a) 5
8. a) wireless fidelity.
9. c) 2
10. c) Resource Focus & Apply side.
11. b) 1996.
12. a) TDCC
13. d) RTOS
14. a) 8
15. b) .dot

PART-II (or) sound.16. Text, images, video, audio, animation - $4 \times \frac{1}{2} = 2$ marks

17. Insert Page in Page maker:

- (i) Choose Layout > Insert Pages in the menu bar
- (ii) Type the number of pages you want to insert
- (iii) click on Insert button. - 2 marks

18. Advantages of Relational Databases.

High ~~availability~~ Availability

or Performance

Robust Transaction & Support

 $4 \times \frac{1}{2} = 2$ marks

Ease management

Less Cost.

19. Scripting languages: Client side, server side

20. Query string: 1 mark 1 mark

2 marks

21. Benefits of WiFi:

- * Flexibility of LAN
- * Low cost, high benefit
- * Enhanced connectivity
- * It allows remote places.
- * It provides connection to Internet to benefit from connectivity.

4 x 1/2 = 2 marks

22. Resolver:

- * It is a program which is responsible for initiating the translation of a domain name into an IP address - 1 mark

* Resolver is stored in the host. - 1 mark

23. EDI:

- * Electronic Data Interchange is the exchange of business documents between two trade partners and another electronically. - 2 marks

24. Electronic Payment systems:

- * It is an financial arrangement that consists an intermed iator to facilitate transfer of money substitute between a payer & receiver. - 2 marks

PART-III

25. In ER model, relationship exists between two entities - One-to-one, One-to-many, many-to-many relationship

- 2 marks

26. Array is a concept that stores more than one value of the same data type in single array variable - 1 1/2 marks

One Indexed, Associative, multiDimensional arrays.

www.Padasalai.Net

27. Looping Structure:

* It is an iterative control structures that involves executing the same block of code a specified number of times.

* Fixed no of times is called bounded loops
For, while, do while, for each loop. — 3 marks

28.

Get

1.

Secure

Opt request

2.

It can be cached

Post.

Insecure

Can

~~It never~~ c

3.

All input data are invisible to others.

Post requests are never cached.

All input data are visible to every one.

4.

It passes the request parameter in the URL string.

It passes request parameter in request body

— 3 marks

29.

* AI is the ability of a computer program (or) a machine to think and learn

* It is able to better predict traffic as it collects and analyzes data in real time.

* It helps to maintain, manage and protect

— 3 marks

30.

RFID Tag — Small antenna

A reader — Receive signals

A controller — Input & process the data.

Heading - 1 marks Explanation - 2 marks

31.

Functional areas of NMS:

* Service monitoring — network based services.

* Data Gathering — using SNMP & JMX

* Event management & notification. — Duty schedule, system with accelerations

Heading - 1 marks Explanation - 2 marks

32.

Publisher, credit card size: $85.60 \text{ mm} \times 53.98 \text{ mm}$ ^{width} ^{height}

rounded corners with radius: $2.88 \text{ mm} - 3.48 \text{ mm}$

the corners: 0.76 mm

ISO/IEC 7810 # 101 - Standard — 3 marks

3D Secure protocols:

- * Developed by Visa & Mastercard
- * XML based protocol
- * There are 3 domains
Acquirer, Issuer, Interoperability Domain
- * During purchase made on websites.

3 points
3 marks

PART-IV34) a) Roles & Responsibilities:

Explain any 5 roles & responsibilities

- Production manager
- Content specialist
- Script writer
- Text editor
- Multimedia Architect
- Computer Graphic artist
- Audio and video specialist
- Computer programmer
- Webmaster.

2 marks

Explanation: 3 marks

b) Explain any 8 tools from the following

- | | | |
|-----------------------|----------------------|-------------|
| Pointer tool | Rotating tool | Line tool |
| Rectangle >> | Ellipse tool | Polygon >> |
| Hand >> | Text Tool | Cropping >> |
| Constrained Line tool | Rectangle frame tool | Zoom >> |
| Ellipse frame tool | Polygon >> tool | |

- 5 marks

35) a) attributes:

Key, Simple, composite, single valued, multi-valued

Attributes - 3 marks

Attribute Definition - 1 mark

b) PHP Datatypes:

PHP scripting language supports 13 primitive data type

- | | | |
|------------|------------|-------------|
| 1. String | 4. Boolean | 7. NULL |
| 2. Integer | 5. Array | 8. Resource |
| 3. Float | 6. object | |

Heading - 2 marks
Explanation - 3 marks

The above datatypes are explained with type

SPB

DATE:

36) a) Function in PHP:

* A Function is a type of Subroutine
Or Procedure In Program

* A Function will be executed by a call to the function and the function returns any data type value or NULL. — 1 marks

Types of Functions:

* User defined functions

* Predefined function or built-in function

* Parameterized Function. — 1 marks

Explanation & Example — 3 marks

b) Switch statement:

* The Switch case is an alternative to the if...else...if else statement which executes a block of code corresponding to the match. — 2 marks

Syntax (or) Example — 3 marks

37) a) OSI model:

Physical layer — Electrical & Physical specifications

Data link layer — Guarantees that the data transmitted are free errors

Network layer — Determining the path of the data packets.

Transport layer — Guarantees the transportation success fully.

Session layer — Established session between different Network entities.

Presentation layer — translation of data to the next layer

Application layer — Acts as the user interface platform.

Heading — 2 marks

Definition — 3 marks



DATE: SFB

b) DNS working:

- * The system first checks its DNS cache for the corresponding IP address
- * ISP provider
- * Next domain server
- * TLD

Explanation
— 5 marks

3Q) a) Types of Network cables:

— Explain any 5 cables

1. Coaxial cables
2. Twisted pair cables
3. Fibre optics
4. USB cables
5. Serial & Parallel cables
6. Ethernet cables.

Explanation - 3 marks

b)

Symmetric

Asymmetric

- * Same key is used for both encryption & decryption
- * Speed is very fast
- * Plain text and cipher text are of same size

- * Different keys are used.
- * Speed is slow
- * Cipher text is always greater than plain text

DES, AES, RC4 provide confidentiality.

RSA, ECC, DSA provide confidentiality, authentication and non-repudiation.

The number of keys used grows exponentially with the number of users.

The number of keys used grows linearly with number of users.

5 points = 5 marks

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