Common Entrance Examination for Admission to Four Year Under Graduate Programmes in the Teaching Departments of the University of Kerala, 2025

CSS

COMPUTER SCIENCE

For office use only

General Instructions

1. The Question Paper is having **40 Objective Questions**, each carrying **Four marks**.

2. The answers are to be (✓) 'tick marked' only in the "Response Sheet" provided.

3. **Negative marking** : **1 mark will be deducted for each wrong answer .**

Time : 1 Hour   **Max. Marks : 160**

To be filled in by the Candidate												
Register Number	in Figures											
	in words											

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Choose appropriate answer from the options in the questions.

(40 × 4 = 160 marks)

1. Which of the following is NOT an output device?

   A. Printer

   B. Plotter

   C. Speaker

   D. Microphone

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2. Which of the following is a nonvolatile memory?

    A. SRAM   B. ROM

    C. Cache Memory   D. DRAM

3. Which of the following is an open-source software?

    A. Linux   B. Microsoft windows

    C. Adobe Photoshop   D. Splunk

4. Which language allows direct control over memory registers and CPU operations?

    A. High-level language   B. Middle-level language

    C. Low-level language   D. Both A and B

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5. Which of the following is an object oriented programming language?

   A. Erlang
   B. C Programming
   C. Ruby
   D. Prolog

6. Which of the following is a block cipher?

   A. RSA
   B. RC4
   C. Trivium
   D. CryptMT

7. Which of the following layer is NOT available in the OSI reference model?

   A. Network layer
   B. Application layer
   C. Internet layer
   D. Physical layer

8. Which one is defined as set of rules and standards that govern the data transmitted and received between devices on network?

   A. Compiler
   B. Protocol
   C. Interpreter
   D. Translator

9. What is the full form of SMTP?

   A. Simple Mail Transport Protocol
   B. Simple Mail Training Protocol
   C. Simple Mail Transfer Protocol
   D. Simple Model Transfer Provider

10. Which of the following is NOT a cloud service model?

    A. SaaS
    B. PaaS
    C. IaaS
    D. TaaS

11. Which of the following is NOT a type of computer network?

    A. LAN
    B. NAN
    C. WAN
    D. MAN

12. Which of the following is NOT a topology of computer network?

   A. Square   B. Bus

   C. Star   D. Tree

13. Which of the following is NOT a data manipulation language?

   A. INSERT   B. CREATE

   C. UPDATE   D. DELETE

14. Which of the following is data type used in C language?

   A. boolean   B. list

   C. str   D. enum

15. Which of the following statement denotes the recursive function?

   A. Function calls itself

   B. Function within function

   C. Function calls multiple times

   D. Function calls as parameter

16. Which of the following is operator is NOT used in Python?

   A. &   B. &&

   C. <<   D. //

17. Which of the following is FIFO order?

   A. Stack   B. Queue

   C. Arrays   D. Heap

18. How many children can have a maximum in each node of a binary tree?

   A. Zero   B. One

   C. Two   D. Three

19. What is the time complexity of Binary Search?

A. O(n)

B. O(log n)

C. O(n log n)

D. O(n+1)

20. Which sorting algorithm takes more space while sorting the elements?

A. Bubble sort

B. Quick sort

C. Heap sort

D. Merge sort

21. Which of the following statement terminates the loop prematurely in Python?

A. break

B. continue

C. pass

D. switch

22. Which key in a database table is used to identify each row uniquely?

A. Foreign key

B. Candidate key

C. Unique key

D. Primary key

23. What is pointer?

A. A variable that stores memory addresses

B. A variable that stores memory addresses of another variable

C. A variable that stores another variable

D. A variable that stores values

24. What is the expansion of UDP?

A. Universal Data Protocol

B. Universal Datagram Protocol

C. User Data Protocol

D. User Datagram Protocol

25. Which of the following statement is false for the binary search tree?

    A. Each node can have at most two children

    B. Values of the left subtree of a node are bigger

    C. There is a designated root node at the top of the tree

    D. Both the left and right subtrees of a node are also binary search tree

26. Which of the following denotes the second normal form?

    A. Removing multivalued dependencies

    B. Eliminating duplicate records

    C. Eliminating partial dependency

    D. Eliminating transitive dependency

27. Which method will make the multiple computers work together to solve a common problem?

    A. Mobile Computing

    B. Cloud Computing

    C. Green Computing

    D. Distributed Computing

28. What is the full form of PHP?

    A. Portable Hypertext Preprocessor

    B. Hypertext Preprocessor

    C. Portable Hyper Preprocessor

    D. Portable Hyper Processor

29. Which tag is used for creating hyperlink in HTML?

    A. <H6>   B. <H>

    C. <A>   D. <LINK>

30. Which attribute is used to combine the multiple columns of a table in HTML?

   A. MERGE   B. COMBINE

   C. ROWSPAN   D. COLSPAN

31. Which of the following is NOT a type of web hosting?

   A. Distributed hosting

   B. Shared hosting

   C. Dedicated hosting

   D. Cloud hosting

32. Which of the following is used for creating the reusable block of code to perform specific task?

   A. Array   B. Function

   C. Structure   D. Class

33. Which of the following is NOT a variable scope for PHP?

   A. local   B. global

   C. static   D. dynamic

34. What is the return value for the print statement in PHP?

   A. 0   B. 1

   C. – 1   D. Greater than 1

35. Which join type will return the records that have matching values in both tables?

   A. Full outer join

   B. Right outer join

   C. Left outer join

   D. Inner join

36. Which optimized technique is used for decreasing clustering?

    A.   Quadratic Probing

    B.   Double-Hashing

    C.   Linear Probing

    D.   Open Hashing

37. What is the size of subnet mask?

    A.   8 Bit   B.   16 Bit

    C.   32 Bit   D.   64 Bit

38. What is the prefix expression for $A+B*C+D$?

    A. $++A*BCD$

    B. $+A+B*CD$

    C. $+A*B+CD$

    D. $ABC*+D+$

39. Which of the following is NOT a type of multiplexing option for the communication channels?

    A.   FDM   B.   TDM

    C.   CDMA   D.   SDM

40. Which of the following application layer protocol is used to retrieve email messages from mail servers over TCP/IP?

    A.   IMAP   B.   POP3

    C.   SMTP   D.   VoIP

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RESPONSE SHEET

1	A	B	C	D	E		11	A	B	C	D	E		21	A	B	C	D	E		31	A	B	C	D	E
2	A	B	C	D	E		12	A	B	C	D	E		22	A	B	C	D	E		32	A	B	C	D	E
3	A	B	C	D	E		13	A	B	C	D	E		23	A	B	C	D	E		33	A	B	C	D	E
4	A	B	C	D	E		14	A	B	C	D	E		24	A	B	C	D	E		34	A	B	C	D	E
5	A	B	C	D	E		15	A	B	C	D	E		25	A	B	C	D	E		35	A	B	C	D	E
6	A	B	C	D	E		16	A	B	C	D	E		26	A	B	C	D	E		36	A	B	C	D	E
7	A	B	C	D	E		17	A	B	C	D	E		27	A	B	C	D	E		37	A	B	C	D	E
8	A	B	C	D	E		18	A	B	C	D	E		28	A	B	C	D	E		38	A	B	C	D	E
9	A	B	C	D	E		19	A	B	C	D	E		29	A	B	C	D	E		39	A	B	C	D	E
10	A	B	C	D	E		20	A	B	C	D	E		30	A	B	C	D	E		40	A	B	C	D	E

ROUGH WORK

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