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Total Number of Questions : 100   **Time : 75 Minutes**

Maximum Marks : 100

1.   The question paper will be given in the form of a Question Booklet. There will be four versions of question booklets with question booklet alpha code viz. **A, B, C & D**.

2.   The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the question booklet.

3.   The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.

4.   If you get a question booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.

5.   The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your question booklet is un-numbered, please get it replaced by new question booklet with same alpha code.

6.   The question booklet will be sealed at the middle of the right margin. Candidate should not open the question booklet, until the indication is given to start answering.

7.   Immediately after the commencement of the examination, the candidate should check that the question booklet supplied to him contains all the 100 questions in serial order. The question booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.

8.   A blank sheet of paper is attached to the question booklet. This may be used for rough work.

9.   **Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.**

10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.

11. **Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.**

12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.

13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

A

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1. Sarva Shiksha Abhiyan was launched in which five year plan ?

    (A) 7th   (B) 8th   (C) 9th   (D) 10th

2. Child helpline phone No. in Kerala :

    (A) 1098   (B) 1091   (C) 1090   (D) 1900

3. Right to Information act was enacted from :

    (A) 2001   (B) 2005   (C) 2007   (D) 2008

4. Founder of the Akhila Thiruvithamcore Navika Thozhilali Sanghamam :

    (A) P.K. Chathan Master   (B) M.C. Joseph

    (C) K.Kelappan   (D) Dr. Velukutty Arayan

5. Rajiv Gandhi Equity Savings Scheme is designed for :

    (A) High net worth individuals   (B) Post offices

    (C) Corporates   (D) Individual retail investors

6. Mahila Samridhi Yojana started in :

    (A) 1990   (B) 1993   (C) 1995   (D) 1998

7. Who was called 'Simhala Simham' ?

    (A) C. Kesavan   (B) C.V. Kunjuraman

    (C) K.P. Kesava Menon   (D) P. Krishna Pillai

8. How many members can be nominated to the Rajya Sabha by President of India ?

    (A) 8   (B) 10   (C) 12   (D) 18

9. The most essential feature of the Parliamentary form of Government is the :

    (A) Sovereignty of the Parliament

    (B) Independent Judiciary

    (C) Written Constitution

    (D) Accountability of the executive to the Legislature

A

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10. Constitution of India was adopted by Constituent assembly on :

(A) 15th January 1950   (B) 26th January 1950

(C) 26th November 1949   (D) 15th November 1949

11. The newspaper Mithavadi was started by :

(A) C. Krishnan   (B) K.P. Kesava Menon

(C) T.K. Madavan   (D) Balakrishna Pillai

12. Which of the following journals was published by Vakkom Abdul Khadar Maulavi ?

(A) Kesari   (B) Samatha   (C) Deepika   (D) Maratha

13. First Novel in Malayalam :

(A) Indulekha   (B) Parinamam

(C) Mahaprasthanam   (D) Kundalatha

14. Kodungallur kunhikkuttan Tampuran was Popularly known as :

(A) Kerala Vyasan   (B) Kerala Panini

(C) Kerala Valmiki   (D) Kerala Kalidasan

15. The founder of Samathwa Samajam :

(A) Sahodaran Ayyappan   (B) Ayya Vaikundar

(C) Brahmananda Sivayogi   (D) Dr. Palpu

16. Study of Fossils is known as :

(A) Orology   (B) Limnology   (C) Lithology   (D) Palaeontology

17. Temple entry proclamation was in the year :

(A) 1934   (B) 1936   (C) 1938   (D) 1942

18. Which of the following is known as the Magna Carta of education in India ?

(A) Wood's Despatch   (B) Macaulay's Minute

(C) Hunter Commission   (D) Kothari Commission

19. 'Akkappoorinte Irupathu Nasrani Varshangal' was the novel of :

(A) C.S. Chandrika (B) K.R. Meera

(C) Benyamin (D) C. Radhakrishnan

20. Who was known as the Grand Old man of India ?

(A) Jawaharlal Nehru (B) Subhash Chandra Bose

(C) Dr. Rajendra Prasad (D) Dadabhai Naoroji

21. UNIVAC is :

(A) Universal Automatic Computer

(B) Universal Array Computer

(C) Universal Automatic Control

(D) Unvalued Automatic Computer

22. DBMS is a collection of _____ that enables users to create and maintain a database.

(A) Keys (B) Translators

(C) Program (D) Language Activity

23. In a relational schema, each tuple is divided into fields called :

(A) Relations (B) Domains (C) Queries (D) All of the above

24. Which is single user operating system ?

(A) MS-DOS (B) UNIX (C) XENIX (D) LINUX

25. In which year the first operating system was developed ?

(A) 1910 (B) 1940 (C) 1950 (D) 1980

26. How can you disable extended selection mode ?

(A) Press F8 again to disable (B) Press Del to disable

(C) Press Esc to disable (D) Press Enter to disable

27. Maximum length of DOS command using any optional parameter is :

(A) 26 Character (B) 87 Character (C) 127 Character (D) None of above

28. Which of the following helps to reduce spelling error in the document ?

    (A) Auto format   (B) Auto correct   (C) Smart tags   (D) Auto test

29. Disk copy command in DOS is used to :

    (A) Copy a file

    (B) Copy contents of one floppy disk to another

    (C) Copy contents of CD-ROM to another

    (D) All of the above

30. What is gutter margin ?

    (A) Margin that is added to the left margin when printing

    (B) Margin that is added to right margin when printing

    (C) Margin that is added to the binding side of page when printing

    (D) Margin that is added to the outside of the page when printing

31. VGA is :

    (A) Video Graphics Array   (B) Visual Graphics Array

    (C) Volatile Graphics Array   (D) Video Graphics Adapter

32. Disk scheduling includes deciding :

    (A) Which should be accessed next ?

    (B) Order in which disk access requests must be serviced

    (C) The physical location of the file

    (D) The logical location of the file

33. CD-ROM stands for :

    (A) Compactable Read Only Memory

    (B) Compact Data Read Only Memory

    (C) Compactable Disk Read Only Memory

    (D) Compact Disk Read Only Memory

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34. Which technique is used by operating system to execute several programs concurrently by switching back and forth ?

(A) Partitioning　　　　　　　　　(B) Multitasking

(C) Windowing　　　　　　　　　(D) Paging

35. Dispatcher function is to :

(A) Put tasks in I/O wait　　　　　(B) Schedule tasks in processor

(C) Change task priorities　　　　(D) All of the above

36. Where can you set the shading color for a range of cells in Excel ?

(A) Chose required color form Patterns tab of Format cells dialog box

(B) Chose required color on Fill Color tool in Formating toolbar

(C) Chose required color on Fill Color tool drawing toolbar

(D) All of the above

37. Operating system is :

(A) a collection of hardware components

(B) a collection of input outputs devices

(C) a collection of software routines

(D) all of the above

38. Which enables us to send the same letter to different persons ?

(A) macros　　　(B) template　　　(C) mail merge　　　(D) none

39. Which one is example for network database ?

(A) Unify　　　　　　　　　　(B) Ingress

(C) IDMS　　　　　　　　　　(D) None of the above

40. Which of the following format you can decide to apply or not in Auto Format dialog box ?

(A) Number format　　　　　　(B) Border format

(C) Font format　　　　　　　(D) All of the above

41. Which scheduling policy is best suited for time sharing operating systems ?

   (A) Shortest job first   (B) Round robin

   (C) First come first serve   (D) Elevator

42. Reference bit is used for :

   (A) Implementing LRU page replacement algorithm

   (B) Implementing NRU algorithm

   (C) To check page table entry in the cache memory

   (D) None of the above

43. Which file is the batch file that is read while booting a computer ?

   (A) Autoexec.bat   (B) Auto-batch

   (C) Auto executive.bat   (D) Auto.bat

44. Macintosh computer uses :

   (A) System 7.0   (B) AU/X

   (C) Xenix   (D) None of the above

45. In 3-tier client/server applications, the business logic lies at _____.

   (A) The client

   (B) The Database Server

   (C) Divided between client and server alternatively

   (D) Middle Tier

46. Copy and Xcopy are same in the sense :

   (A) Both are internal command of DOS

   (B) Both are external command of DOS

   (C) Both can be used to copy file or group of files

   (D) Both (A) and (B)

47. For two variables, n = 2, the number of possible Boolean functions is :

   (A) 4   (B) 8   (C) 16   (D) 12

48. The one major advantage of CMOS is its :

(A) Low propagation delay   (B) High propagation delay

(C) Very low propagation delay   (D) Very high propagation delay

49. 64K memory contains how many words of 8 bits each :

(A) 65,536   (B) 64,536   (C) 65,436   (D) 65,546

50. The sum of -6 and -13 using 2's complement addition is :

(A) 11100011   (B) 11110011   (C) 11001100   (D) 11101101

51. What is Q, when $S=1$ and $R=1$ for SR flip-flop ?

(A) No change   (B) Clear to 0   (C) Set to 1   (D) Indeterminate

52. What does T stands for in T filp-flop ?

(A) Top   (B) Type   (C) Toggle   (D) Tickle

53. What number will z be in the sample code given below ?

int z, $x=5$, $y=-10$, a$=4$, b$=2$;

$z=x+ + - - -y*b/a$;

(A) 5   (B) 6   (C) 10   (D) 11

54. Which of the following is **not** a keyword in C language ?

(A) Void   (B) Volatile   (C) Sizeof   (D) Getchar

55. What is the return value of the following statement if it is placed in C program ?

strcmp ("ABC", "ABC");

(A) 33   (B) -1 (C) 1   (D) 0

56. Every C program consists of _____ function(s).

(A) Only one   (B) Only two   (C) One or two   (D) One or many

57. What is the only function, all C programs must contain ?

(A) Start()   (B) System()   (C) Main()   (D) Program()

58. Which of the following is **not** a correct variable type ?

(A) Float   (B) Real   (C) Int   (D) Double

59. HTTP (Hyper Text Transfer Protocol) has similarities to both of the following protocols :

(A) FTP; SMTP   (B) FTP; SNMP   (C) FTP; MTV   (D) FTP; URL

60. MIME allows what type of data to be sent through SMTP ?

(A) Audio   (B) Non-ASCII data (C) Image   (D) FTP; SMTP

61. What names objects, defines the type of data that can be stored in an object, and encodes data for network transmission ?

(A) MIB   (B) SMI   (C) SNMP   (D) ASN.1

62. Which of the following application protocol is a framework for managing devices in an internet using the TCP/IP protocol suite ?

(A) SMTP   (B) SNMP   (C) FTP   (D) TELNET

63. What is the bit combination used by the SAPI field of ISDN's data link layer, to control call for end-to-end signaling in LAPD addressing format ?

(A) 000000   (B) 000010   (C) 010000   (D) 000001

64. The values for the position(i), position(j) where i = 14 and j = 11, are :

(A) 2, 8   (B) 8, 2   (C) 8, 13   (D) 2, 13

65. What is the value to find the reachability of the problem with which you can say the solution is reachable or not ?

(A) 71   (B) 72   (C) 73   (D) 69

66. The upper bound on the time complexity of the nondeterministic sorting algorithm is :

(A) O(n)   (B) O(n log n)   (C) O(1)   (D) O(log n)

67. There is a chain of 20 stores; each of the store having 5 departments. Then, which of the following is a correct representation of array size ?

(A) 5*20   (B) 6*21   (C) 20*5   (D) 21*6

68. One from the following is also known as Pre-Order traversal. What that one is ?

(A) LNR   (B) LRN   (C) RLN   (D) NLR

69. From the following, select the valid data structure which reflects hierarchical relationship between the elements :

(A) Graph   (B) Queue   (C) Tree   (D) Stack

70. Which of the following matrix does have high proportions of zero entries as the elements ?

(A) Inverse Matrix   (B) Sparse Matrix

(C) Determinant Matrix   (D) Square Matrix

71. Recursive algorithms are based on :

(A) Divide and conquer approach   (B) Top-down approach

(C) Bottom-up approach   (D) Hierarchical approach

72. What do you call the selected keys in the quick sort method ?

(A) Outer key   (B) Inner key   (C) Partition key   (D) Pivot key

73. How many nodes does a complete binary tree of level 5 have ?

(A) 16   (B) 15   (C) 32   (D) 31

74. The Sorting method which is used for external sort is :

(A) Bubble sort   (B) Quick sort   (C) Merge sort   (D) Radix sort

75. A node of a directed graph G having no out-degree and a positive in-degree is called :

(A) Source node   (B) Sink node   (C) Sibling node   (D) Null node

76. What would be the depth of tree whose level is 9 ?
    (A) 10   (B) 8   (C) 9   (D) 11

77. A collection of data designed to be used by different people is called a/an :
    (A) Organization   (B) Database   (C) Relationship   (D) Schema

78. Which of the following is an attribute that can uniquely identify a row in a table ?
    (A) Secondary key   (B) Candidate key
    (C) Foreign key   (D) None of the above

79. Which of the following is the oldest database model ?
    (A) Relational   (B) Deductive   (C) Physical   (D) Network

80. Which of the following terms does refer to the correctness and completeness of the data in a database ?
    (A) Data integrity   (B) Data constraint
    (C) Data independence   (D) Data model

81. If the state of the database no longer reflects a real state of the world that the database is supposed to capture, then such a state is called :
    (A) Inconsistent state   (B) Parallel state
    (C) Durable state   (D) Consistent state

82. A transaction completes its execution is said to be :
    (A) Committed   (B) Aborted   (C) Rolled back   (D) Failed

83. Which of the following allows substitution of code to occur at the translation time in a JSP page ?
    (A) <jsp:include> Tag   (B) <@include> directive
    (C) <@page> directive   (D) Declaration block

84. Which EJB uses EJB-QL for query operations ?
    (A) BMP Entity Bean   (B) CMP Entity Bean
    (C) Session Bean   (D) Message-Driven Bean

85. Which of the following is used to redirect the response from a servlet to a JSP page ?

(A) response.sendRedirect()   (B) request.sendRedirect()

(C) request.forward()   (D) response.forward()

86. Which of the following are **not** a container for EJB ?

(i) Internet Information Server

(ii) Java System Application Server

(iii) Tomcat

(iv) WebLogic

(A) Both (i) and (ii) above   (B) Both (ii) and (iii) above

(C) Both (iii) and (iv) above   (D) Both (i) and (iii) above

87. Which method of the request object is used to extract values of the input fields in a form when it is submitted ?

(A) getParameter   (B) getParameterNames

(C) getValues   (D) putValues

88. Which of the following is not true for servlet ?

(A) It is persistent   (B) Platform independent

(C) High performance   (D) It is single threaded

89. Which part of multi-tier enterprise application contains EJB component ?

(A) Application Server   (B) Web Server

(C) Database Server   (D) Fat Client

90. Which of the following is true for Java Bean ?

(A) It can not be a GUI component

(B) It never implements serializable interface

(C) It has zero-argument constructor

(D) It is a distributed component

91. Metal Molds for mass-producing CDs are known as :

(A) Father   (B) Mothers   (C) Sons   (D) Sisters

92. What is the quicktime embedded HTML command ?

    (A) HFS   (B) Hues   (C) HREF   (D) HYPERLINK

93. Which of these is **not** likely to be the responsibility of a multimedia project ?

    (A) Create interfaces   (B) Ensure the visual consistency of the project
    (C) Structure content   (D) Create budgets and timelines for the project

94. Identify the Macintosh character for<>

    (A) (....)Ellipse   (B) ?   (C) " "   (D) =

95. Which of the following mechanism is used to achieve concurrency control ?

    (A) Clusters   (B) Triggers   (C) Control access   (D) Locks

96. If a program is under execution by CPU then we say the process is under :

    (A) CPU Burst   (B) Process   (C) I/O Burst   (D) Ready Queue

97. In a segmentation scheme the logical memory will be divided into :

    (A) Pages   (B) Frames   (C) Blocks   (D) Segments

98. Information in the file is processed in order, one record after another. This mode of access is called _____.

    (A) Relative   (B) Sequential   (C) Direct   (D) Index

99. Which of the following is in **correct** order of size, smallest first ?

    (A) Cylinder, track, sector   (B) Cylinder, sector, track
    (C) Sector, track, cylinder   (D) Sector, cylinder, track

100. The set of pages that a process is currently using is called as :

    (A) Program   (B) Page Group   (C) Working Group   (D) Working Set

- o 0 o -

SPACE FOR ROUGH WORK

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