Code No. : 1992/2021

Question Booklet Alpha Code **A**

**Total No. of Questions : 160**

**Time : 2 Hours**

**Each question carries half mark :** **Marks : 80 (160 x ½)**

1. An astronaut in outer space will observe sky in ——— Colour.
   A) White B) Black C) Blue D) Green

2. ——— is the first Indian woman to win Man Booker prize.
   A) Keerth. Reddy
   B) Kiran Desai
   C) Arundhathi Roy
   D) Bernice Rubens

3. Which team has won maximum number of One Day international world cups?
   A) West Indies B) England C) India D) Australia

4. Richter scale is used to measure
   A) Earthquake B) Depth of oceans C) Length of rivers D) Rainfall

5. UNDP means
   A) United Nations Developed Programme
   B) United Nations Development Programme
   C) United Nations Developing programme
   D) United Nations Disaster programme

6. Which one of the following animal does not have red blood cells?
   A) Snake B) Monkey C) Earthworm D) Peacock

7. Which company launched the "Citizen first" advertising campaign?
   A) Unilever B) ITC C) P&G D) Godrej

8. Saraswati Samman is given annually for outstanding contribution to
   A) Arts B) Literature C) Education D) Sports

CSEB

9. COVID-19 pandemic initially was discovered in
A) Xian B) Wuhan C) Shenzhen D) Wuxi

10. "Rani Ki Vav" an archaeological attraction is located in which of the following states?
A) Gujarat B) Madhya Pradesh C) Rajasthan D) Delhi

11. What was the name of the atom bomb dropped by USA on Hiroshima in Japan during the second world war?
A) Little fly B) Little Boy C) Little Devil D) Small boy

12. Which planet was named after the Roman God Zeus?
A) Jupiter B) Mars C) Venus D) Saturn

13. The Indian mutiny of 1857 was initially started at
A) Delhi. B) Meerut C) Lucknow D) Kanpur

14. Among the following, which Indian state is having the longest coastline?
A) Andhra Pradesh B) Karnataka C) Maharashtra D) Gujarat

15. Kuchipudi is a dance form from.
A) Karnataka. B) Andhra Pradesh C) Tamilnadu D) Orissa

16. The first effective vaccine against polio was prepared by
A) Gibbon B) Jonas Salk
C) James Simpson D) Richard Edwards

17. Which country hosted the first As an Games?
A) China B) Saudi Arabia C) India D) Japan

18. The most suitable unit for expressing nuclear radius is
A) Fermi B) Micron C) Nano D) Mute

19. The capital of Jharkhand is
A) Patna B) Patnasaheb C) Gaya D) Ranchi

20. Which one is the largest lake in Kerala?
A) Vembanad lake B) Sasthamkotta lake
C) Pookode lake D) Ashtamudi lake

CSEB

I. Choose the correct tense of the verb given in brackets from the answers given below.

21. The teacher made the student (repeat) the experiment.
A) to repeat B) repeats C) repeat D) none of these

22. Cricket (Play) all over the world
A) Played B) Play C) is played D) none of these

23. He smokes continuously. It (be) injurious to health
A) be B) is C) being D) none of these

24. He (find) it difficult to depend upon her
A) find B) is finding C) finds D) none of these

II. Choose the correct preposition from the following given in brackets.

25. I waited ———— the bus stop.
A) in B) at C) for D) none of these

26. He is a man ———— twenty five.
A) on B) at C) of D) none of these

III Choose synonym for the following from brackets:

27. Robuke
A) loya B) orthodox C) scold D) none of these

IV. Choose antonym for the following from brackets:

28. Fickle
A) Constant B) moving C) wavering D) none of these

V. Choose the correct meaning of the following from brackets:

29. Prima vista
A) Easy way B) At the moment C) at first sight D) none of these

30. a la mode
A) in fashion B) in work C) in dirt D) none of these

CSEB

31. The 14th date of April is Saturday. Then the third Tuesday will be on:

A) 15 B) 21 C) 17 D) 24

32. Average age of 15 persons is 24 years. Later a boy is included in to this group. Then average becomes 23 years. The age of the boy will he?

A) 22 B) 8 C) 18 D) 12

33. Find the wrong number in the given series

729, 243, 81, 29, 9,3

A) 243 B) 29 C) 729 D) 3

34. Complete the series

5, 4, 15, 7, 23, 11, 29, 16, ——

A) 33 B) 31 C) 29 D) 23

35. 150 glasses were brought for Rs 4,500 out of these 6 were broken and the rest were sold at Rs. 600 per dozen . Then the net profit is

A) 1000 B) 1200 C) 1500 D) 500

36. A man walks 4 km towards South and then turns to the right. After walking 2 km he turns to the left and walks 6 km. Now in which direction is he from the starting places.

A) West B) North east C) South D) South west

37. ROAD is written as URDG. then SWAN may be written as

A) VZDQ B) VXQQ C) VXQD D) VZCQ

38. P,Q,R and S are playing a game of carrom P,R and S,Q are partners, S is the right of R. If R is facing west then Q is facing

A) North B) South C) East D) West

39. Tap A can fill a tank in 6 hours, tap B can fill the same tank in 8 hours and tap C can empty the same tank in 4 hours. If all three taps A,B and C are opened together, then how much time (in hours) will be taken to fill the tank.

A) 30 B) 28 C) 24 D) 20

40. Four letter-Clusters have been given, out of which three are alike in some manner and one is different, select the odd letter-cluster

A) AFK B) BGL C) PUZ D) NSW

CSEB

41. Who was the Chairman of the Committee constituted to review the arrangements for institutional credit for agriculture and rural development in 1981?
A) Maclagan
B) Brahma Prakash
C) B. Sivaraman
D) M S. Viswanathan

42. The Travancore Cochin Co-operative Societies Act came into force with effect from
A) 1.9.1952
B) 2.4.1955
C) 1.9.1962
D) 1.9.1955

43. The credit card in the nature of clean over draft for multipurpose use including consumption is
A) GCC
B) KCC
C) Cash credit
D) None of these

44. _____ is the system by which co-operatives are directed and controlled
A) co-operative management
B) co-operative governance
C) co-operative administration
D) co-operative supervision

45. Which of the following is not a unique feature of co-operatives?
A) Voluntary association of individuals
B) Democratic management
C) Dependence
D) Economic participation of members

46. Co-operative banks are rightly leveraged institutions in the sense that
A) Their total assets are several multiples of their own funds
B) Their loans are mostly unsecured loans
C) Share capital constitutes the major portion of their own funds
D) Their total liabilities are several multiples of their own funds

47. The short term co-operative credit structure functionaries
A) Unitary structure
B) Federal structure
C) Mixed structure
D) Union of primaries

48. Which one of the following is not a primary agricultural credit society?
A) Farmers service co-operative bank
B) Service co-operative bank
C) Service co-operative society
D) Agricultural improvement society

49. The members of Kerala State co-operative Bank voting rights is/are
A) Primary agricultural credit societies
B) Urban Co-operative Banks
C) Primary agricultural credit societies and urban co-operative banks
D) All types of primary societies

50. Who is the first minister of co-operation in India?
A) Amit Shah
B) Vivek Khanduri
C) Jairamdas Daulatram
D) K.M. Munshi

51. Loan of small amounts given to low income group is called
A) micro credit
B) no frill loans
C) cash credit
D) simple overdraft

52. Interest on fixed deposit is compounded on basis
A) monthly
B) quarterly
C) half yearly
D) annually

53. What is Direct Benefit Transfer
A) Remittance through banks
B) Cash discount on sales
C) Transfer of social benefits /Subsidies directly in bank accounts of beneficiaries
D) Transfer of interest from one bank to another bank

54. Which movement encouraged the formation of commercial banks in India?
A) Non-Co-operation movement
B) Quit India movement
C) Civil Disobedience movement
D) Swadeshi Movement

55. _____ is a standardized legal agreement to buy or sell something at a predetermined price at a specified time in the future between parties not known to each other.
A) market contract
B) standard contract
C) futures contract
D) forward contract

56. The Credit history of the borrowers is provided by
A) CIBIL
B) CII
C) FRBI
D) IRDA

57. Which category of people are benefited through the Reverse mortgage scheme?
A) Minors
B) Senior citizens
C) Government employees
D) Retired Government Employees

58 Which bank introduced ATM first in India?
A) ICICI
B) SBI
C) HSBC
D) HDFC

59. What is NDTL?
A) Net Demand and Tax Liability
B) New Demand and Tenure Liability
C) National Deposit and Time Liability
D) Net Demand and Time Liability

60. How many scheduled co-operative Banks is there in kerala?
A) one
B) three
C) five
D) eight

CSEB

61. The Universal gate is
A) NAND gate B) OR gate C) AND gate D) None of these

62. An OR gate has 6 inputs. The numbers of inputs words in its truth table are?
A) 6 B) 32 C) 64 D) 128

63. Which mechanism allocates the binary value to the states in order to reduce the cost of the combinational circuits?
A) State Reduction B) State Assignment
C) State Minimization D) State Evaluation

64. A debouncing Circuit is
A) An astable MV B) A bistable MV C) A monostable MV D) A latch

65. The binary code of $(21.125)_{10}$ is?
A) 10101.001 B) 10100.001 C) 10101.010 D) 10100.111

66. A group of bits that tell the computer to perform a specific operation is known as
A) Instruction code B) Microoperation C) Accumulator D) Register

67. A k-bit field can specify any one of
A) 3k registers B) 2k registers C) K2 registers D) K3 registers

68. The BSA instruction is
A) Branch and store accumulator B) Branch and shift address
C) Branch and save return address D) Branch and show accumulator

69. An n-bit microprocessor has
A) n-bit program counter B) n-bit address register
C) n-bit ALU D) n-bit instruction register

70. In a memory mapped I/O system, which of the following will not be there?
A) IN B) LDA C) ADD D) OUT

71. What is the maximum length of the filename in DOS?
A) 8 B) 12 C) 16 D) 4

72. What else is a command interpreter called?
A) prompt B) kernel C) command D) shell

73. What is the full name of FAT?
A) File attribute table. B) File allocation table
C) Format allocation table D) None of these

74. What is the full name of the DSM?
A) Distributed shared memory B) Demoralized system memory
C) Direct system memory D) Direct system module

75. What is bootstrapping called?
A) Cold hot boot B) Hot boot C) Cold boot D) Cold hot strap

CSEB

76. A technique for direct search is
A) Binary Search B) Linear search C) Tree Search D) Hashing

77. The number of interchanges required to sort 5, 1,8, 24 in ascending order using Bubble sort is
A) 5 B) 6 C) 7 D) 8

78. The postfix form of the expression (A+B)*(C*D–E)^F/G is
A) AB + CD*E–^F*G/ B) AB + CD^E–F^*G/
C) AB + CD^E–FG/^* D) AB +CDE*–^F*G/

79. Merging 4 sorted files containing 60, 10, 25 and 15 records will take _____ time.
A) O(100) B) O(200) C) O(175) D) O(125)

80. One can convert a binary tree into its mirror image by traversing it in
A) inorder B) preorder C) postorder D) any order

81. What data structure would you mostly likely see in a non-recursive implementation of a recursive algorithm?
A) Trees B) Linked list C) Queue D) Stack

82. An adjacency matrix representation of a graph cannot contain information of
A) nodes B) edges
C) parallel edges D) direction of edges

83. The extra key inserted at the end of the array is called a,
A) End key B) Sentinel C) Stop key D) Transposition

84 C99 standard guarantees uniqueness of _____ characters for internal names.
A) 63 B) 31 C) 14 D) 12

85. Which data type is most suitable for storing a number 65000 in a 32-bit system?
A) int B) signed short C) unsigned short D) long

86. Which of the following is not an arithmetic operation?
A) a + 10 B) a * 10; C) a / = 10; D) a % = 10;

87. When double is converted to float, then the value is?
A) Truncated B) Depends on the compiler
C) Rounded D) Depends on the standard

88. What will be the final value of c in the following C statement? (Initial value, c = 2).
1. c <<= 1;
A) c=4 B) c=1 C) c=3 D) c=2

89. How many number of pointer (*) does C have against a pointer variable declaration?
A) 7 B) 127 C) 255 D) No Limits

90 fflush (NULL) flushes all
A) output streams B) input streams C) previous contents D) appended text

OSEB

91. Which function is used to read a single character from the console in C++?

A) getline(ch) B) cin.get(ch) C) read(ch) D) scanf(ch)

92. Which of the following cannot be a friend?

A) Function B) Class
C) Object D) Operator Function

93. Which concept means the addition of new components to a program as it runs?

A) Data Hiding B) Dynamic Binding
C) Dynamic Typing D) Dynamic Loading

94. It is guaranteed that a ———— has at least 8 bits and a ———— has at least 16 bits.

A) int float B) int, Char
C) char, short D) bool,char

95. What constant defined in <climits> header returns the number of bits in a char?

A) CHAR_SIZE B) SIZE_CHAR
C) CHAR_BIT D) BIT_CHAR

96. The operator used for dereferencing or indirection is

A) * B) & C) -> D) ->>

97. Which variable does equal in size with enum variable?

A) float variable B) int variable
C) string variable D) float and string variable

98. Which of these method returns an instance of DateFormat that can format time information?

A) getTimeInstance() B) getTime()
C) getTimeDateInstance() D) getDateFormatInstance()

CSEB

99. Which of the following has the highest memory requirement?

A) JVM B) Heap C) Stack D) Class

100. Which of the below is invalid identifier with the main method?

A) private B) public C) Static D) Final

101. What would be the behaviour if this() and super() used in a method?

A) Compile time error B) Runtime error

C) Throws exception D) Runs successfully

102. Which of the following is a garbage collection technique?

A) Space management model B) Cleanup model

C) Mark and sweep model D) Sweep model

103. Which of these method of String class can be used to test to strings for equality?

A) isequal() B) equals()

C) isequals() D) equal()

104. What will be the output of the following Java program?

```
Class string_class
{
    public static void main(String args[ ])
    {
      String obj = "I LIKE JAVA";
      System.out.println(obj.charAt(3));
    }
}
```

A) L B) I

C) K D) E

CSEB

105. To remove a relation from an SQL database, we use the _____ command.
A) Drop table B) Delete C) Purge D) Remove

106. Updates that violate _____ are disallowed.
A) Integrity constraints B) Transaction control
C) Authorization D) DDL constraints

107. '_ _ _' matches any string of _____ three characters. '_ _ _ %' matches any string of at _____ three characters
A) Atleast, Exactly B) Atleast, All C) All, Exactly D) Exactly, Atleast

108. In SQL the spaces at the end of the string are removed by _____ function
A) Upper B) String C) Trim D) Lower

109. _____ clause is an additional filter that is applied to the result.
A) Having B) Select C) Group-by D) Oder by

110. If the attribute phone number is included in the relation all the values need not be entered into the phone number column. This type of entry is given as
A) 0 B) C) Empty Space D) Null

111. The _____ keyword is used to access attributes of preceding tables or subqueries in the from clause.
A) Lateral B) In C) Having D) With

112. How can you find rows that do not match some specified condition?
A) EXISTS B) Double use of NOT EXISTS
C) NOT EXISTS D) None of these

113. Aggregate functions are functions that take a _____ as input and return a single value.
A) Collection of values B) Single value
C) Aggregate Value D) Both Collection of values and Single value

114. Which of the following is used at the end of the view to reject the tuples which do not satisfy the condition in where clause?
A) With B) Check C) With check D) All of these

115. An instance of relational schema R (A, B, C) has distinct values of A, including NULL values. Which one of the following is true?
A) A is a candidate key B) A is not a candidate key
C) A is a Primary Key D) Both (A) and (C)

116. In order to maintain the consistency during transactions, database provides?
A) Commit B) Flashback C) Atomic D) Retain

117. Which of the following is used to get back all the transactions back after rollback?
A) Flashback B) Rollback C) Redo D) Commit

118. A data dictionary is a repository that manages
A) Memory B) Metadata C) Spell Checker D) Data Validator

CSEB

119. The _____ layer, which provides the interface that client and server application objects use to interact with each other.

A) Increasing
B) Count
C) Bit
D) Stub/skeleton

120. A typical ———————— program creates some remote objects, makes references to these objects accessible, and waits for clients to invoke methods on these objects.

A) Server
B) Client
C) Thread
D) Concurrent

121. RMI stands for?

A) Remote Message Invocation
B) Remote Mail Invocation
C) Remaining Method Invocation
D) Remote Method Invocation

122. The client—server model is an approach to computer network programming developed at

A) AT&T Bell Lab
B) Xerox PARC
C) Intel Lab
D) Sun Microsystems

123. A layer which is the binary data protocol layer

A) stub layer
B) skeleton layer
C) remote layer
D) transport protocol

124. A benefit of the three-tier architecture is which of the following?

A) New modules can be built to support specific business needs
B) Performance improves for compiled SQL statements
C) Results in a thinner client and database server
D) All of the above.

125. SGML stands for?

A) Standard Created Markup Language
B) System Generalized Markup Language
C) Standard Generalized Markup Language
D) System Created Markup Language

CSEB

126. A Javascript program can traverse and manipulate document content through

A) Element Object
B) Document Object
C) Both Element and Document Object
D) Data Object

127. The HTML5 specification does not includes

A) Data storage
B) Graphics APIs
C) Other APIs for web apps
D) Networking

128. What is the code to start displaying the time when the document loads?

A) onload = displayTime.
B) window. = displayTime.
C) window onload = displayTime.
D) Window onload – start.

129. One of the main advantage of using src attribute is

A) It becomes self-cached
B) It makes the HTML file modular
C) It restricts manipulation in the HTML file
D) It simplifies the HTML files

130. Which of the following defines the title of a work?

A) <cite>
B) <a>
C) <a>
D) <address>

131. Which element is used to get highlighted text in HTML5?

A) <highlight>
B) <b>
C) <mark>
D) <hg>

132. A gateway for the server side object.

A) skeleton
B) stub
C) remote
D) server

CSEB

133. The protocol data unit (PDU) for the application layer in the Internet stack is

A) Segment
B) Datagram
C) Message
D) Frame

134. Which of the following transport layer protocols is used to support electronic mail?

A) SMTP
B) IP
C) TCP
D) UDP

135. In the IPv4 addressing format, the number of networks allowed under Class C addresses is?

A) 2^14
B) 2^7
C) 2^24
D) 2^21

136. A layer-4 firewall (a device that can look at all protocol headers up to the transport layer) CANNOT

A) block HTTP traffic during 9:00 PM and 5:00 AM
B) block all ICMP traffic
C) stop incoming traffic from a specific IP address but allow outgoing traffic to same IP
D) block TCP traffic from a specific user on a specific IP address on multi-user system during 9:00 PM and 5:00 AM

137. An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be

A) 255.255.0.0
B) 255.255.64.0
C) 255.255.128.0
D) 255.255.252.0

138. Suppose the round trip propagation delay for a 10 Mbps Ethernet having 48-bit jamming signal is 46.4 ms. The minimum frame size is:

A) 94
B) 416
C) 464
D) 512

139. Which of the following system calls results in the sending of SYN packets?

A) socket
B) bind
C) listen
D) connect

140. What is the maximum size of data that the application layer can pass on to the TCP layer below?

A) 1500 bytes
B) 2^16 bytes-size of TCP
C) 2^21 bytes
D) Any size

141. In Ethernet when Manchester encoding is used, the bit rate is

A) Half the baud rate
B) Twice the baud rate
C) Same as the baud rate
D) None of these

142. Match the following.

| | | | |
|---|---|---|---|
| (P) | SMTP | (1) | Application layer |
| (Q) | BGP | (2) | Transport layer |
| (R) | TCP | (3) | Data link layer |
| (S) | PPP | (4) | Network layer |
| | | (5) | Physical layer |

A) P–2 Q–1 R–3 S–5
B) P–1 Q–4 R–2 S–3
C) P–1 Q–4 R–2 S–5
D) P–2 Q–4 R–1 S–3

143. How many bits are allocated for network id (NID) and host id(HID) in the IP address 25.193.165.233?

A) 24 bit for NID, 8 bits for HID
B) 8 bit for NID, 24 bits for HID
C) 16 bit for NID, 16 bits for HID
D) None

144. The bandwidth of the line is 1.5 Mbps with round trip time (RTT) as 45 milliseconds. If the size of each packet is 1 KB(kilobytes), then what is the efficiency in Stop and wait protocol?

A) 20.3
B) 10.0
C) 19.8
D) 11.0

145. Which device uses logical addressing system?

A) Hub
B) Switch
C) bridge
D) Router

146. Which of the following is not true about Subnetting?

A) It can be applied only for single network
B) It is used to improve security
C) Here, bits are borrowed from network ID portion
D) Here, bits are borrowed from host ID portion

GSEB

147. Build & Fix Model is suitable for programming exercises of _____ LOC (Line of Code).
A) 100-200 B) 200-400 C) 400-1000 D) Above 1000

148. Which one of the following is not a phase of Prototyping Model?
A) Quick Design B) Prototype Refinement
C) Coding D) Engineer Product

149. RAD Model has
A) 2 Phases B) 3 Phases C) 5 Phases D) 6 Phases

150. FAST stands for
A) Functional Application Specification Technique B) Fast Application Specification Technique
C) Facilitated Application Specification Technique D) None of these

151. Which is one of the most important stakeholder from the following?
A) Entry level personnel B) Middle level stakeholder
C) Managers D) Users of the software

152. Which is the first step in the software development life cycle?
A) Analysis B) Design
C) Problem/Opportunity Identification D) Development and Documentation

153. Which of the following is an important factor that can affect the accuracy and efficacy of estimates?
A) Project size B) Planning process
C) Project complexity D) Degree of structural uncertainty

154. The project planner examines the statement of scope and extracts all important software functions which is known as
A) Association B) Decomposition C) Planning process D) All of these

155. What assess the risk and your plans for risk mitigation and revise these when you learn more about the risk?
A) Risk monitoring B) Risk planning C) Risk identification D) Risk analysis

156. ISO 9001 is not concerned with _____ of quality records.
A) Collection B) Maintenance C) verification D) dis-positioning

157. Which of the following strategies means that the impact of the risk will be reduced?
A) Avoidance strategies B) Minimization strategies
C) Contingency plans D) All of these

158. National Voluntary Laboratory Accreditation Program approve accreditation in
A) Environmental standards B) Computers and electronics
C) Product testing D) All of these

159. Program modularization and Source code translation are the activities of
A) Forward engineering B) Reverse Engineering
C) Reengineering D) Reverse Engineering and Reengineering

160. Which model in system modelling depicts the static nature of the system?
A) Behavioral Model B) Context Model C) Data Model D) Structural Model

GSEB