



QUESTION BOOKLET



Exam. Code : 03

Subject Code : 03-CE-4

Number of Pages in Booklet : 16

Number of Questions in Booklet : 100

Time : 1 Hour 15 Minutes

Maximum Marks : 100

INSTRUCTIONS

1. Answer all questions.
2. All questions carry equal marks.
3. Only one answer is to be given for each question.
4. If more than one answers are marked, it would be treated as wrong answer.
5. Each question has four alternative responses marked serially as (A), (B), (C), (D). You have to darken only one circle or bubble indicating the correct answer on the Answer Sheet using **BLUE BALL POINT PEN**.
6. The candidate should ensure that Series Code of the Question Paper Booklet and Answer Sheet must be same. In case they are different, a candidate must obtain another Question Paper of the same series. Candidate himself shall be responsible for ensuring this.
7. Mobile Phone or any other electronic gadget in the examination hall is strictly prohibited. A candidate found with any of such objectionable material with him/her will be strictly dealt as per rules.
8. End of Examination, Candidates carry out this booklet, with them.



- 1 Which of the following is incorrect IP address
(A) 195.65.7.12 (B) 194.356.23.45 ✓
✓(C) 123.123.123.123 ✓(D) 1.1.1.1
- 2 Key to represent relationship between tables is called
(A) Primary key ✓ (B) Secondary key
(C) Foreign key (D) None of the above
- 3 The circuit used to store one bit of data is known as
(A) Encoder ✓(B) Or gate
(C) Flip Flop ✓ (D) Decoder
- 4 $(2FA8)_{16}$ is equivalent to
(A) $(1950)_{10}$ ✓(B) $(0010111110101000)_2$
(C) $(1074)_8$ (D) None of the above
- 5 The length of IPv6 address is
(A) 8 bit (B) 32 bit
(C) 116 bit ✓(D) 128 bit
- 6 Which of the following is not a characteristic of RISC architecture
✓(A) Large instruction set (B) One instruction per cycle
(C) Simple addressing mode ✓(D) Register to register operation
- 7 Which of the following is not a type of flip flop
(A) T flip flop (B) RS flip flop
(C) D flip flop ✓(D) R flip flop

- 8 Rectifier is used for
- (A) Converting DC voltage to AC voltage
 - ☒ (B) Converting AC voltage to DC voltage
 - (C) Step up input AC voltage
 - (D) Step down input voltage
- 9 Which of the following is non - weighted code
- (A) Straight binary
 - (B) Natural BCD
 - ☒ (C) 2421 code
 - ☒ (D) Excess - 3 code
- 10 UPS is used for
- ☒ (A) Providing stabilized output of fluctuation AC power supply
 - (B) Providing uninterrupted power supply
 - ☒ (C) Providing required DC voltage to the computer
 - (D) None of the above
- 11 Which of the following is not a mail protocol
- (A) SMTP
 - ☒ (B) DHCP
 - (C) POP
 - (D) IMAP
- 12 In OSI network architecture the routing is performed by
- ☒ (A) Network layer
 - (B) Data - link layer
 - ☒ (C) Transport layer
 - (D) None of the above

- 13 Microprocessor used in PC-XT type computer is
(A) 8085 ☒ (B) 8088
☒ (C) 80386 ☒ (D) 80286
- 14 Which of the following processor is of 32 bit processor
(A) 8085 (B) 8086
☒ (C) Pentium (D) None of the above
- 15 The declaration of C variable can be done
(A) Anywhere in the program
☒ (B) In declaration part
(C) In executable part
(D) At the end of program
- 16 Two variables are initialized using
(A) (greater than) > ☒ (B) (assignment) =
☒ (C) (equal to) == (D) (increment) ++
- 17 How many different combinations (bit pattern) are possible in a byte
☒ (A) 8 ☒ (B) 255
☒ (C) 256 ☒ (D) None of the above
- 18 The switching circuit whose output depends not only on input but also on present state is
☒ (A) Combinational circuit
(B) Sequential circuit
(C) Encoder circuit
☒ (D) Multiplexer circuit
- 19 VDU stands for
☒ (A) Visual Display Unit (B) Virtual Drive Unit
(C) Versatile Database Unit (D) None of the above

- 20 Which of the following identifier is invalid
 (A) longest (B) longer
 (C) long (D) ~~longnum~~
- 21 Which addressing mode has no operands in instruction
 (A) ~~Direct~~ (B) Register
 (C) ~~Implicit~~ (D) Immediate
- 22 To increment the value of variable c by one which of the following statement is wrong
 (A) c++; (B) c=c+1;
 (C) ~~c+1=>c;~~ (D) c+=1;
- 23 (A159F)₁₆ is equivalent to
 (A) (136005)₈
 (B) (101500)₁₀
 (C) (2412637)₈
 (D) ~~None of the above~~
- 24 Which function reads one character type data at a time till the user press the enter key
 (A) puts() (B) ~~getchar()~~
 (C) accept() (D) floor()
- 25 The C programs are converted into machine language using
 (A) An assembler (B) A preprocessor
 (C) An interpreter (D) ~~None of the above~~
- 26 Which of the following is known as insertion operator in C++
 (A) ^ (B) <
 (C) ~~<<~~ (D) >>

- 27 How many times a Do While loop guaranteed to loop
(A) 0 (B) 1
☒ (C) Infinitely (D) variable
- 28 Which of the following communication modes support two – way traffic but in only one direction at a time
(A) Simplex ☒ (B) Half – duplex
(C) Three quarters duplex (D) Full – duplex
- 29 Find out correct statement
☒ (A) The head in the floppy disk touches the media surface during a read/write operation
(B) The total number of read/write heads needed in HDD is equal to twice the number of platters
(C) The FDD has a maximum of two read/write heads
(D) All of the above
- 30 Which of the following IC is known as Programmable Interrupt Controller
(A) 8058 ☒ (B) 8259
(C) 8255 (D) 8264
- 31 Keyboard gets supply from
(A) SMPS
☒ (B) Motherboard
(C) It has its own power supply
(D) None of the above
- 32 HDD provides better performance than FDD, for which of the following reason
(A) Higher capacity of data storage
(B) Faster access time of data
(C) Higher data transfer rate
☒ (D) All of the above

- 33 With reference to JAVA, which of the following statement is incorrect
 (A) Java does not support operator overloading
 (B) Java support instance of '>>>' operator
 ✓ (C) Java generate EXE file after compilation
 (D) Java does not allow pointer
- 34 Which of the following is an example of micro floppy
 (A) 8" (B) 5¼"
 ✓ (C) 3½" (D) All of the above
- 35 HTTP is an acronym for
 (A) Hyper Text Television Protocol
 ✓ (B) Hyper Text Transfer Protoco
 (C) Hyper Text Topology Protocol
 (D) Hyper Text Timeliness Protocol
- 36 Which of the following equation is used for calculate number of physical links in fully connected mesh network
 (A) $n(n-1)$ ✓ (B) $2(n-1)$
 (C) $(n-1)/2$ ✓ (D) $n(n-1)/2$
- 37 The BCD equivalent of $(13)_{10}$ is
 (A) 1101 ✓ (B) 0001 0011
 (C) 1111 (D) None of the above
- 38 Which microprocessor pins are used to request and acknowledge a DMA transfer
 ✓ (A) HOLD and HLDA (B) reset and ready
 (C) ready and wait (D) None of the above
- 39 Parity flag is set when the result has
 ✓ (A) Odd parity ✓ (B) Even parity
 ✓ (C) Carry (D) Borrow
- 40 In Reverse Polish Notation, expression $A*B+C*D$ is written as
 ✓ (A) $AB*CD*+$ ✓ (B) $A*BCD*+$
 (C) $AB*CD+*$ (D) $A*B*CD+$

41 In based index addressing mode, the effective address is formed by adding content of

- (A) Base register and index register
- (B) Source register and 16 – bit data
- ☒ (C) Index register and 8 – bit data
- (D) None of the above

42 Which is the correct way to declare a pointer in C

- (A) int ptr*
- ☒ (B) int *ptr
- (C) *int ptr
- ☒ (D) int_ptr x

43 Which scheduling policy is most suitable for a time shared operating system

- (A) Shortest Job First
- (B) Elevator
- ☒ (C) Round Robin
- ☒ (D) First Come First Serve

44 Which of the following is universal gate

- (A) OR
- (B) EX-OR
- ☒ (C) NOR
- ☒ (D) None of the above

45 Which of the following is not a JAVA API package

- (A) lang
- ☒ (B) awt
- (C) net
- ☒ (D) panel

46 Which class includes methods for drawing different types of shapes in JAVA?

- ☒ (A) graphics
- (B) applet
- ☒ (C) drawshapes
- (D) awt

47 Which of the following is not a linear data structure

- (A) array
- ☒ (B) linked list
- ☒ (C) queue
- (D) tree

- 48 A shell is the exclusive feature of
☒ (A) DOS ☒ (B) UNIX
☒ (C) System software (D) Application software
- 49 Fastest way to exchange two rows in a two dimensional array in C is
(A) Exchange the addresses of each element in two rows
(B) Exchange the elements of the two rows
☒ (C) Store the addresses of the rows in an array of pointer and exchange pointer
(D) None of the above
- 50 A class can be inherited in JAVA using
(A) inherit ☒ (B) extends
(C) (colon) : (D) Implement
- 51 Transmission media belongs to which layer of the OSI reference model
(A) Physical layer
☒ (B) Transport layer
(C) Below physical layer
(D) Between network and transport layer
- 52 Can we use destructor in JAVA
☒ (A) Yes ☒ (B) No
(C) Sometimes (D) Partially
- 53 In which normal form, a composite attribute is converted to individual attributes
☒ (A) First ☒ (B) Second
(C) Third (D) Fourth
- 54 Dynamic configuration of TCP/IP is done by
☒ (A) DHCP (B) MIME
(C) WAP (D) HTTP
- 55 Thermal printer is an example of
(A) Impact printer ☒ (B) Non - impact printer
☒ (C) Both (A) and (B) (D) None of the above

56 Which of the following database object does not physically exist

- ☒ (A) Base table (B) Index
☒ (C) View (D) None of the above

57 Recursion is a process in which function calls

- (A) Another function ☒ (B) Itself
(C) main() method (D) Inbuilt function

58 How many bytes are allocated with 'int' datatype in JAVA

- (A) 1 (B) 2
☒ (C) 4 ☒ (D) 8

59 The function of stepper motor is

- (A) It provides linear movement(to and fro) to the read/write head
(B) It provides circular movement to the diskette
☒ (C) Both (A) and (B)
(D) None of the above

60 The memory address of the first element of an array is known as

- (A) Floor address (B) Foundation address
(C) First address ☒ (D) Base address

61 SSTF stands for

- (A) Simple Seek Time First Scheduling
☒ (B) Shortest Seek Time First Scheduling
(C) Simple Small Time First Scheduling
☒ (D) None of the above

62 Resistance of the conductor is depends on

- (A) Length of the conductor (B) Material used in conductor
(C) Area of cross section ☒ (D) All of the above

- 63 In π filter how many shunt capacitor used
(A) 1 (B) 2
☒ (C) 3 (D) 4
- 64 The data transfer rate of 52X CD Drive is
(A) 150 KBps (B) 52 KBps
☒ (C) 300 KBps ☒ (D) 7800 KBps
- 65 FET stands for
☒ (A) Field Effect Transistor
(B) Fault Effect Transistor
(C) Field Emitted Transistor
(D) Fixed Emitted Transistor
- 66 Maximum data storage capacity of DVD is
(A) 4.7 GB (B) 630 MB
(C) 17 GB ☒ (D) 8.5 GB
- 67 The default subnet mask for IP address 193.168.10.5 is
(A) 255.0.0.0
(B) 255.255.0.0
☒ (C) 255.255.255.0
(D) 255.255.255.255
- 68 Flying height is
☒ (A) Distance between read/write head and media surface of HDD
☒ (B) Distance between read/write head and media surface of floppy diskette
(C) Distance between two platters in HDD
(D) Distance between head actuator mechanism and stepper motor

69 LDR stands for

- (A) Linear Digital Rectifier ☒ (B) Light Dependent Register
(C) Load Direct Reactance (D) Low Density Receiver

70 The 'typedef' statement is used for

- (A) Declaring user defined data type
(B) Declaring variant variable
☒ (C) For typecasting of variable
(D) None of the above

71 Which one of the following is DQL command

- ☒ (A) CREATE (B) INSERT
(C) ROLLBACK (D) SELECT

72 The PID of kernel process is

- ☒ (A) Undefined (B) 0
(C) 1 (D) 2

73 A program under execution is known as

- ☒ (A) Process (B) Instruction
(C) Procedure (D) Function

74 Which of the following device is used to connect two or more arbitrary networks

- (A) Repeater (B) Bridge
☒ (C) Router ☒ (D) Switch

75 A karnaugh map with 3 variable has

- ☒ (A) 3 cells (B) 8 cells
(C) 16 cells ☒ (D) 9 cells

76 Look at this series: 36, 34, 30, 28, 24, ...

What number should come next?

(A) 20

(C) 23

☒ (B) 22

(D) 26

77 8 12 9 13 10 14 11

(A) 14, 11

(C) 8, 15

☒ (B) 15, 12

(D) 15, 19

78 Look at this series: V, VIII, XI, XIV, __, XX, ...

What number should fill the blank?

(A) IX

(C) XV

(B) XXIII

☒ (D) XVII

79 4832, 5840, 6848, ?

(A) 7815

☒ (C) 7856

(B) 7846

(D) 7887

80 Choose the missing terms out of the given alternatives. H, I, K, N, ?

(A) O

☒ (C) R

(B) Q

(D) S

H I J K L M

N O P Q

R S

81 Choose the missing term(s) from below options:

AYBZC, DWEXF, GUHVI, JSKTL, ?

(A) MQORN

(C) NQMOR

☒ (B) MONRO

(D) QMONR

82 Choose the missing term from below options:

PERPENDICULAR, ERPENDICULA, RPENDICUL, ?

(A) None of these

(C) ENDIC

(B) PENDIC

☒ (D) PENDICUL

83 _ a _ b _ abaa _ bab _ abb

(A) aaabb

(C) babab

☒ (B) ababb

(D) babba

- 84 Who is called as the supreme commander of Indian Armed forces?
☒ (A) President (B) General
 (C) Prime Minister (D) Air-Chief Marshal
- 85 Which is national technology day?
 (A) May 13 ☒ (B) May 11
☒ (C) May 15 (D) April 15
- 86 Mahatma Gandhi Institute for Rural Industrialisation is in
 (A) Hyderabad (B) Kolkata
☒ (C) Wardha ☒ (D) Porbandar
- 87 Which of the following religious groups has the highest literacy rate in India, as per 2001 census data?
 (A) Christian ☒ (B) Jains
 (C) Buddhists (D) Sikhs
- 88 The Headquarter of UNESCO is at
 (A) Rome ☒ (B) Geneva
☒ (C) Paris (D) New York
- 89 During sleep, man's blood pressure
☒ (A) Decreases (B) Increases
 (C) Fluctuates ☒ (D) Remain constant
- 90 The spice state of India is
 (A) Tamil Nadu (B) Bihar
☒ (C) Gujarat ☒ (D) Kerala
- 91 Encryption is a technique generally used for _____
 (A) Authorization ☒ (B) Confidentiality
 (C) Compression (D) Backup
- 92 _____ command is used to know the IP address in MS Windows.
 (A) netconfig ☒ (B) ipconfig
 (C) netinfo (D) ipinfo
- 93 _____ protocol is used to retrieve E-mail messages from a Server.
 (A) SMTP ☒ (B) POP
 (C) MIME (D) TELNET

94 A grocer has a sale of Rs. 6435, Rs. 6927, Rs. 6855, Rs. 7230 and Rs. 6562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Rs. 6500?

☒ (A) Rs. 4991

(B) Rs. 5991

☒ (C) Rs. 6001

(D) Rs. 6991

95 Find out the wrong number in the given sequence of numbers :

8, 13, 21, 32, 47, 63, 83

☒ (A) 47

(B) 63

(C) 32

☒ (D) 83

96 Electronic computer was invented by _____

(A) Bill Gates

(B) Kelvin

(C) Dr Alan M turning

☒ (D) None of these

97 The first Indian to win Nobel Prize was _____

☒ (A) C. V. Raman

(B) C. Rajgopalachari

☒ (C) Rabindranath Tagore

(D) None of these

98 Nasik is located on bank of _____

(A) Ganga

(B) Yamuna

☒ (C) Godavari

☒ (D) None of these

99 The administrative capital of Punjab is _____

(A) Amritsar

(B) Lahore

☒ (C) Chandigarh

(D) Hissar

100 The hardest substance available on earth is.

(A) Gold

(B) Iron

☒ (C) Diamond

(D) Platinum