**Subject: Basic Hardware, Software & C programming**

**Level: B. Ed /First Year**

Attempt all questions. Tick (√) the best answer.

1. The number 102 written in binary is……………

a) 0110011 b) 110011 c) 110110 d) 1100110

2. Which of the expressions describes the De Morgan's Theorem?

a) (A+B)'= A'+B' c) A+B=A+B

b) (A'+B')'=AB d) A+(AB)=A

3. What are software interrupts?

a) RST 0 - 7 **b) RST 5.5 - 7.5** c) INTR, TRAP d) all of above

4. Which of the register is used to store the address of the next instruction to be executed?

a) Accumulator b) Program counter c) Stack pointer d) Instruction register

5. Which is not the 8085 instruction set of group?

a) Data transfer c) Arithmetic

b) Transfer d) Branch and Machine control

6. Which of the following scheduling algorithms use Time Quantum?

a) FCFS b) SJF c) Round Robin d) Priority Scheduling

7. Which is not the state of the process?

a) Blocked b) Running c) Ready d) Terminated

8. Which of the following is a correct comment?

a) \*/ Comments \*/ c) \*\* Comment \*\*

b) /\* Comment \*/ d) { Comment }

**9. Which of the following functions compares two strings in C?**

a) compare(); b) stringcompare();

b) cmp(); d) strcmp();

10. What will be output if you execute following c code?

void main()

{ int num, a=5; num =++a; printf("%d %d", num, a);}

a) 5 5 b) 6 6 c) 7 7 d) 5 6

11. What is the symbol for logical AND operator?

A) # b. || c. && d. \

12. What is not the valid relational operator in C?

A) > b. < c. >= d.<>

13. Which is not the valid string function in C?

A) strcmp( ) b. strcpy() c. strrev() d. strdow()

14. Which one of the following is unary operator?

A) a=a+2 b. a++ c. c=a+b d. a=a-1

15. Which of the following is used define function?

A) sqrt() b. pow() c. area() d. strcmp()

16. What is the header file for sqrt() library function?

A) string.h b. stdio.h c. conio.h d. math.h

17. Which one is not OS?

A) Android b. Linux c. Window d. Ms Excel

18. Which one of the following is not loop interrupt

A) break b. continue c. goto d. end

19. What is the equivalent expression for i++?

A) i=i\*1 b. i=i+1 c. i\*1=1 d. i\*i=1

20. Memory requirement for int abc[20] is

A) 15 byte b. 10 byte c. 20 byte d. 40 byte

21. What is the symbol for logical AND operator?

A) # b. || c. && d. \

31. 1+1=1 is called \_\_\_\_logical operation.

AND b) OR c) NOT d) XOR

32. (XY)’= X’ + y’ is called \_\_\_\_ law?

a) Communicative b) associative c) distributive d) DeMorgan

34. . ASCII stands for:

a) American Static code for Information Interchange

b) American Standard Code for Information Interchange

c) American Standard Code for Interchange Information

d) American Standard Code for Information Innerchange

35. # is called the …………..

A) Post procedure c) Pre-processor

B) Procedure d) Pre-Increment

36. &&, ||, ! are the…………………

A) conditional operator c) ternary operator

B) bitwise operator d) logical operator

37. The number 32768 must be stored in a(n):

a) int b) long c) float d) double

38. Single line comments explaining code would be preceded like in the following example

a) /\*\* ***b) //*** c) \*// d) /\*

39. What will be the output ?

void main ( ) { int i= 65; printf(“\n %c %d” ,i,i ); }

a) Error message b) 65 65 c) a 65 d) A 65

40. What will be output if you will execute following c code?

Void main(){ float a=0.5, b=0.9;

if(a>0.5 && b>0.9)

printf("SITA");

else

printf("NISA");}

a) SITA b) NISA c) null d) Run time error

41.In 8085 name the 16 bit registers?

a) Stack pointer b) Program counter c) a & b d) accumulator

42.What type of processor does not directly implement instructions that combine data movement and manipulation? a) CISC b) RISC d) microprocessor d) PSW

43. Using the FCFS CPU scheduling algorithm, Average waiting time of following process queue is:

Process Burst

P1 24

P2 6

P3 3

a) 3 b) 10 c) 30 d) 9

1. Group of 4 bits is called \_\_\_\_\_

A) Bit B)Nibble C)Byte D) Quad

2. How to represent Boolean F(x,y)=x+y in logic gate?

3. Word length of a processor is 32 bit means its word length is of \_\_\_\_\_\_\_\_ bytes.

A) 2 B) 4 C) 6 D) 8

4. Address of next memory location to be fetched is stored in\_\_\_\_\_\_\_\_\_.

A) Process Counter

B) Program Counter

C) Instruction Counter

D) Instruction Indicator

5. SPOOLING is an acronym of ……

A) Simultaneous peripheral operation on-lining

B) Simultaneous peripheral operation on-line

C) Simultaneously peripheral operation on-line

D) Simultaneously peripheral operation on-lining

6. Which is not key word in C programming language?

A) break B) go to C) continue D) main

7. How many byte occupy float data type in C programming?

A) 2 B) 4 C) 8 D) 1

8. Which statement is not true:

A) Array hold the similar type of data type.

B) Structure used for manage different data type

C) Array and structure are both data type.

D) Array is not support string data type

9. What is the output of the following program?

Void main() { int x = 10; printf ("%d %d", ++x, x++);}

A) 10, 10 B)10, 11 C) 11, 6 D) 11,11

7. Single line comments explaining code would be preceded like in the following example

a) /\*\* b) // c) \*// d) /\*

8. Which one of the following will read a character from the keyboard and will store it in the variable c? a) c = getc(); b) getc( &c ); c) getchar( &c ) d) c = getchar();

**Centralized Pre Board Examination-2072-5-6 …….**

**Attempt all the question. Tick (√) the best answers**

1. 1 + 1 = 1 is called \_\_\_ logical operation.

a. NOT b. OR c. AND d. None

2. Group of 16 bits is called……………….

a. Bits c. Bytes b. Nibble d. Word

3. … … is/ are the types of the microprocessor series.

a. 8080 b. 8086 c. 8088 d. All of them

4. The speed of microprocessor depends on?

a. Clock b. Data bus

c. Address bus d. word Length

5. To store 8 bit data in a 8085/8088A has six general purpose register, that is … …

a. A,B,C,D,E and H b. A, B, C, D, F and G

c. B,C,D,E,H, and L d. B,C,D,E,H, and M

6. Which of the following is/ are not a secondary storage media…..

a. Magnetic Tapes b. Magnetic Disks

c. RAM d. Both a. and b.

7. In C, what are the minimum sizes (in bytes) of the following three data types: Character, Integer and Long Integer?

a. 1, 1, 2 b. 1, 2, 4 c. 1, 2, 8 d. 2, 4, 8

8. Which notation is/are used in preprocessor directive in C.

a. # b. @ c. ! d. &

9. While using operator, a + = 4 means \_\_\_.

a. a = 4 b. a + 4 = a c. a + 4 d. a = 4 + 4

10. Which expression is correct for area of a circle?

a. pi x r ^ 2; b. π r 2; c. (22/7. \* r^2; d. None

Attempt the entire question. Tick (√) the best answers.

1. 1+1=1 is called \_\_\_\_logical operation.  
   a) AND b) OR c) NOT d) XOR
2. Which logic gate has the following truth table?



1. A two-input OR gate. c) An exclusive OR gate.
2. An exclusive NOR gate. d) A two-input AND gate.
3. What does microprocessor speed depends on?  
   a) Clock b) Data bus width c) Address bus width d) word Length

1. Which of the register is used to stores the address of the next instruction to be executed?

a) Accumulator b) Program counter c) Stack pointer d) Instruction register

1. Which of the following is not the approach to dealing with deadlock?
2. Prevention b) Avoidance c) Detection d) Deletion
3. Virtual memory is \_\_\_\_\_\_\_\_\_\_.   
   a) An extremely large main memory  c) An extremely large secondary memory   
   b) An illusion of extremely large main memory  d) memory used in super computers.
4. Which of the following is the correct syntax for if in C?
5. if expression than c) if ( expression)
6. Expression if d) if{ Expression}
7. Which of the following gives the memory address of a variable pointed to by pointer a?
8. a; b) \*a; c) &a; d) address(a);
9. Which of the following functions compares two strings in C?
10. compare(); b) stringcompare();
11. cmp(); d) strcmp();
12. What does the following declaration mean?

int (\*ptr)[10];

1. ptr is array of pointers to 10 integers
2. ptr is a pointer to an array of 10 integers
3. ptr is an array of 10 integers
4. ptr is an pointer to array