Huhhes Aptitude Paper 1

section A:30 bits section B:20 bits section C:20 bits section A is compulsory attempt either section C or section B for electronics background, it is better to attempt sec B

Section C

- 1. an lead compensator zero is at Z=Zc, pole is at P=Pc then the following is correct a. Pc > Zc, pc < 0, zc < 0
 - $rc > 2c, pc^{<}$
 - b. c.
- 2. gain margin of g(s)h(s)=1/s(s+k);
 - a. sqrt(1+k2)
 - b. 0
 - c. infinity
 - d. 1
- 3. machestor code does not improves
 - a. clock recovery
 - b. bandwidth efficiency
 - c.
- 4. possion distribution is used for
 - a. used in FSM
 - b.

c.used for queuing delay system of mutually identical events of arrival d. both a and c

- 5. no.of filpflops for mod 11 counter
 - a. four
 - b. five
 - c.
- 6. no.of filpflops for mod 11 counter
 - a. four
 - b. five
 - c.
- 7. if even parity is used for parity generation, what is the hamming distance (simple fig is given) ans:2
- 8. the code set is {00000,00111,11100,11011} what is the error detecting and correcting capability?

ans:2,1

- 9. operational amp characteristics following is correct:
 - 1. input impedance is 0
 - 2. output impedance is infinity
 - 3. input impedance is infinity
 - 4. gain is infinity which combinations are correc
- 10. band pass signal having frequencies 2.5k and 4.5k?give the sampling freq
 - a. 9k
 - b. 4k
 - c. 4.5k
 - d. 7k

11.definition of avalanche diode multiplication

- 12. more no of ripples are present in the diagram?which is correct
 - a. lower order filter
 - b. high order filter
 - c.
- 13. If CPU have one interrupt pin and on to connect with external devices with some priority? which type of the following is used?
 - a. parallel priority interrupt
 - b. daisy chain
 - c. RS filpflop
 - d.
- 14. one megabit file transfer, serially on 9600 baud one start bit and two stop bits, then how much time it takes (approx)
 - a. 4 hours
 - b. 2 hours
 - c. 20 minutes
 - d. 2 minute

15.IEEE 802.5 is ans: TOKEN RING

16.Code sequence is given what is the error correcting distance

17.bit stuffing used in HDLC Protocol for ans: b is correct(read on text book)

Section A AND B (Both are mixed)

return 1; } what will be the output?

- 2. f(*p)
 {
 p=(char *)malloc(6);
 p="hello";
 return;
 }
 main()
 {
 char *p="bye";
 f(p);
 printf("%s",p);
 }
 what is the o/p? ans:bye
- 3. when the program counter is incremented in the instruction cycle
 - a. fetch cycleb. int cyclec. execuation cycled.
- 4. two sorted lists of n elements will take at least fine the order of complexity?
 - a. 2n
 - b. n/2
 - c. square(n)
- 5. logic diagram is given? find the expression ans: OR gate
- 6. question on JAVA string ans: string ends without a null character
- cache access time is 100ns. main memory access time is 1000ns, hit ratio is .9, find mean access time? ans :200ns
- 8. which is not suitable to find out IP address ans:ARP
- 9. about deadlock condition
- 10.convert 41.6875 into binary
- 11. read about IP AND IPX
- 12.read about NFS
- 13. DHCP is a. for routing

- b. for network address conversion
- c. for diagnosis
- d.

14.execution phase can be

- a. pipelined
- b. no parallelism is possible
- c. vector processing

d.

15.In public key algorithm , A wants to send message to B which key is used

- a. A public key
- b. A private key
- c. B public key
- d. B private key

16.to prevent replay attacks in transmission

- a. symmetric encoding
- b. Asymmetric encoding
- c. for every exchange, key should be changed

17.irtual functionality is used in C++

- a. dynamic binding
- b. if the derived func is present but base class not present
- c.
- 18. if there are n nodes in a binary tree, how many null pointers are there ans:n+1;
- 19. if heap sort contains n elements, no of comparsions required are
 - a. log(n)
 - b. height of heap sort
 - c.

d.

20.question on ICV(integrity check)

21.which of the following is efficient in terms of space

- a. insertion sort
- b. quick sort
- c. selection
- d. both a and c
- 22.in 32 bit representation, the range of numbers in 2's complement form ans :-2 to the power of 31 to 2 to the power of 31 minus 1

23.about normalization

24.socket is implemented in TCP Layer. which of the following is related to TCP layer

ans: port number

25.in reentrant procedure, which should be not used for passing parameters?

- a. passed by reg
- b. by direct
- c. by indirect
- d. by stack
- 26. flow control is used for
 - a. congestion at receiver
 - b.
 - c.
 - d.

27.flow control is used for a. congestion at receiver

- b.
- c.
- d.
- 28.5 questions on DBMS are there

29.in global static variable, declartion in a file

- a. localization of scope
- b. persistance of the value through out the file
- c.
- d.

30.in sorted table contains elements , which of the searching is false

- a. hash table
- b. binary searching
- 31. in demand paging overhead of context switching is more due to
 - a. copy processes from disk to memory
 - b. viceversa
 - c. to get associative table
 - d. swapping to the disk
- 32. when write through is better than write back(related to cache memory)
- 33.which is false when normalization is used?can't express

34.I :verification: are we doing right product

- II: validation: are we doing product right
- a. i and ii are true
- b. i and ii are false
- c. i true and ii false
- d. i false and ii true

- 35. A table contains less than 10 elements which one is fastest
 - a. bubble sort
 - b. selection sort
 - c. quick sort

36. about subroutine, precondition is false. what about post condition

- a. post condition is not defined
- b. post condition is always true
- c.
- d.

37. When static variables are used, which one of the following is not possible?

- a. dynamic run time
- b.
- c.

38. in product of x and y,

if(x=0|y=0) y=1; else y=0; (not cleared) what is cyclometric complexity? a. 3 b. 2 c. 1

d. 0

39.CREATE TABLE NEW AS SELECT BIG FROM EMP The above SQL statement is correct or not? (question is not cleared)

40.path testing is

- a. white box
- b. black box
- c. installation test
- d. environment test

41.program is given?

above algorithm represents what type of search?

- a. binary search
- b. interpolation search
- c. sequential search
- d. (may be "b" is correct);

42.if x->y in a relation R, x1 and x2 are in x, y1 and y2 are in y (question not cleared), about functional dependancy

a.x1=x2 and y1=y2

b.

c.

- 43.in a down loading from website ,which one is correct? ans: check the byte code and indicate the error, if any.
- 44.about UDP one Address is given but that is not the state table what will it do the packet
 - a. packet is discarded
 - b. packet is sent to ethernet server
 - c. packet is sent to other address
 - d.
- 45. in associated memory for fast accessing which one is used
 - a. single linked list
 - b. double "
 - c. hash table
 - d.