

Hughes(FSS) Sample Paper

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Company : Hughes(FSS)
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1. What does compiler do?
a. memory management b. symbol table c. -- d.-
2. Kerberos used for-
ans. Authentication and security.
3. RSA Algorithm, something related to session key and how to send encrypted data using it.
4. One digital ckt.(simple)
5. One K-map (simple) 4x4
6. Min no. of operations in worst case input for –
ans. Heap Sort
7. 3 device serially connected, each having a probability of 0.9 of not failing. Combined prob. Of the entire ckt to work-
ans. 0.729 (according to me)
8. CONNECT BY command in DBMS.
Ans.
9. Projection in DBMS over a set of attributes results in:
ans: vertical partitioning.
10. Program Counter incremented in –
ans. Fetch Phase
11. You have to delete a given node in a singly connected link list, given the pointer to it. What is the order of no. of nodes to be traversed –
ans. $O(1)$ if pointer to that particular node is given.
12. Hit ratio for first level cache is 0.9 and access time 100ns, for second level cache is 0.9 and access time 300ns, memory access time is 1000ns. Find time to access an address-

ans. 140 ns

13. Ping is in –

ans. ICMP

14. Def. of Coupling

ans: Coupling describes the relationship between software components or modules.

ans: coupling betn two modules is the strength of interconnections brtn 2 modules.

15. Function pts are used in –

ans. - Software Engineering

16. Can DFDs be used in OO Model

Ans. Yes

17. Protected members in Public class can be accessed by - Don't remember the choices.

Ans. Protected members can be accessed by the class in which they are defined and the class derived from it.

18. Message from A to B, So A will use- A's private key or A's public key or B's private key or B's public key.

19. No. of lines req. to completely connect n nodes –

Ans. $O(n*n)$ i.e $n(n-1)/2$

20. Something on NFS

21. Something on Threaded trees and weight balanced trees.

22. $n=2^p$ processors in a hypercube organization, what is the max. hops req. to send a message between the farthest two processors

a. n b. p c. log of n to the base p d. p times choice c.

ans : $\ln n$ base 2;

23. Diff between 3rd and 2nd normal form

24. Which is not client server? choices are : email access, web access, NFS, telephone

ans : telephone

25. Data structure used to sort direct access or disk files.

26. Least avg waiting time –

ans. Shortest job first algo

27. What is true about JAVA interface

ans. Its Implementation is defined elsewhere.

28. For arithmetic expression evaluation using stack-

ans. postfix

29. For diskless systems –

ans. RARP

30. What is a "dirty read"?

ans. If in a distributed database system data is read after a transaction has modified it and still not committed.

31. How does a java applet runs in your browser?

Ans. Downloaded on your system and executed

32. You will be given 5 steps of a sorting algo on a data string

ans. Bubble Sort.

33. How to define constant pointer a to an integer in C

ans. `Int* const ptr.`

34. `Char* (* (* A[X]) ()) ()` is what?

ans. this is array of pointers to a function returning pointer to a function returning pointer to a character.

35. Every shared resource has a colocated resource manager for –

ans. concurrency control, location transparency, replication transparency

36. Can a computer have both more than one Domain address and more than one IP address.

Ans. yes.

37. Which searches best in binary tree- ht. Balancing, wt. Balancing,

38. Heap management is done by library routine –

choices are: user procedure in user mode, user proc. In kernel mode, kernel,

39. Something on regression testing

40. IPV6 address bits –

ans. 128 bits

41. Something on raw IP

42. which of the following is not a unix file descriptor?

a. Process b. Socket c. pipe d.

43. A c program whose answer is: no. of set bits.

44. quick sort is worst to use when:

ans: Elements are already sorted.

45 if the height of a satellite is doubled, measured from the earth's centre then its time period is

a. doubles b. halves c. increases 2.4 times d. increases 1.8 times.

Ans. c