

HFCL Sample Paper Questions

Q1. State Shannons Law.

Q2. Difference between TCP/IP and OSI model.

Q3. How many flip-flops in MOD-33 counter?

Q4. Difference between fork() & execve().

Q5. 16k memory, ending address of the address space is FFFFH. Find the starting address.

Q6. Multiplexer 1 to 3 inputs:- A,B,C;
control lines - S1,S2;
Output - Y. Write Y in terms of S1,S2.

Q7. What does this piece of code does?

```
call main()
main()
{
toupper>Hello);
main();
}
```

Q8. State bandwidth minimum sampling theorem.

Q9. What data structure is used to transform infix to postfix?

Q10. Macro is given as follows: $SQR(x) = x*x$ find the value of $SQR(i-j)$, when i and j were given.

Q11. Explain Bankers algorithm.

Q12. Difference between TCP and UDP.

Q13. Difference between bridge and router.

Q14. A graph was given: a quadrilateral with 1 diagonal. Find the number of trees in the graph.

Q15. Windows 95, X-Windows - what are they?

Q16. Explain the address of RST 6.5.

Q17. What is meant by Preorder Traversal?