

Philips Previous Paper Questions

Q1. 100 glasses are there. A servant has to supply glasses to a person. If he supplies the glasses without any damage he will get 3 paise otherwise he will loose 3 paise. At the end of supplying 100 glasses if he gets 270 paise, how many glasses were supplied safely?

ANS: 95

Q2. 202.141.65.62 this type of IP address belong to which class?

ANS: class B

Q3. If a channel has 2400 bauds, what is the data rate it support?

Q4. 15 software functions are there. It is known that atleast 5 of them are defective. What is the probability that if three functions are chosen and tested, no errors are uncovered?

ANS: $10 * 9 * 8$

Q5. The approximate ratio for number of internal nodes to total number of nodes in k-ary tree of depth n.

ANS: $1/k$

Q6. For 13-bit DAC MSB, resistance is 2 k ohms. What will be its LSB resistance?

ANS: $2k * 2$ to the power of 12.

Q7. Problem related to macro # define square $x * x$.

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ANS: 11

Q8. Mod K ring counter requires how many number of flip flops?

ANS: K

Q9. What is the CMRR of Ideal op-amp?

ANS: infinity.

Q10. Bubble sort is given n , Find number of times it executes.

ANS: $n(n-1)/2$

Q11. What is microprogram?

Q12. Fastest logic is?

ANS: ECL

Q13. Java is

- a. compiled
- b. interpreted.
- c. OOP
- d. multithreaded.
- e. all

ANS: e

Q14. What is fidelity?

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Q15. If Band width is w , what is data rate?

ANS: $2w$

Q16. If he sells 40 mangoes, he will get the selling price of 4 mangoes extra, What is his % increase in profit?

ANS: 25%