Lucent Sample Test Paper

Q1 .6*12*15 is the volume of some material. How many cubes of edge 3 can be inserted into 1

Aptitude

Ans.40
Q2. Two pipes can fill a tank in 10 and 12 hours respectively while third pipe will make the tar empty in 20 hours. If all three pipes operate simultaneously, in how many hours the tank will k filled?
Ans.7hours 30 minutes.
Q3. Cost of an item is x. It's value increases by p% and decreases by p% Now the new value i rupee, what is the actual value ?
Ans.(1000)/(1000-p*p).
Q4. A right circular cylinder and a cone are there. Base radius of cone is equal to radius of cylin What is the ratio of height to slant side if their volume are the same?

Q6. A pole seen from a certain distance at an angle of 15 degrees and 100 meters ahead by 30 degrees. What is the height of pole?

Q5. Distance between two poles is 50 meters. A train goes by 48 at a speed of kmph. In one

Q7. For 15 people--each has to pay Rs.20.For 20 people--each has to pay Rs.18. For 40 people how much has each to pay ?

Q8. If p=2q then $q=r^*r$, if p-odd then q is even, whether r is even or odd?

- a) first condition is sufficient
- b) second condition is sufficient

minute how many poles will be crossed by the train?

- c) both are sufficient
- d) both are not sufficient

Q9. If he sells 40 mangoes, he will get the selling price of 4 mangoes extra, What is his percentincrease in profit?

Ans. 25%

Q10. 100 glasses are there. A servant has to supply glasses to a person If he supplies the glas 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

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Q11. Q is not equal to zero and k = (Q x n - s)/2 find n?
(a) (2 x k + s)/Q
(b) (2 x s x k)/Q
(c) (2 x k - s)/Q
(d) (2 x k + s x Q)/Q (e) (k + s)/Q
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Q12 - Q16

A causes B or C, but not both F occurs only if B occurs D occurs if B or C occurs E occurs only if C occurs J occurs only if E or F occurs D causes G, H or both H occurs if E occurs G occurs if F occurs

Q12. If A occurs which of the following must occurs
I. F & amp; G
II. E and H
III. D

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(a) I only(b) II only(c) III only(d) I, II, III(e) I, II (or) II, III but not both
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Ans. (e)

Q13. If B occurs which must occur	
(a) D (b) D and G (c) G and H (d) F and G (e) J	
Ans. (a)	
Q14. If J occurs which must have occurred	
(a) E (b) either B or C (c) both E F (d) B (e) both B and C	
Ans. (b)	
Q15.Which may occurs as a result of cause not mentioned	
(1) D (2) A (3) F	
(a) 1 only (b) 2 only (c) 1 and 2 (d) 2 and 3 (e) 1,2,3	
Ans. (c)	
Q16. E occurs which one cannot occurs	
(a) A (b) F (c) D (d) C (e) J	
Ans. (b)	

Technical

Q1.Which is the fastest logic ?
Ans. ECL
Q2. 202.141.65.62 type of IP address belong to which class ? Ans. class B
Q3. Mod K ring counter requires how many number of flip flops ? Ans. K
Q4. What is the ideal op-amp CMRR? Ans. infinity.
Q5.For a 13-bit DAC the MSB resistance is 2kohms. What is the LSB resistance ? Ans. 2kohms * 2 12
Q6. How many mod 3 counters are required to construct mod 9 counter. Ans.2
Q7. Piggy backing is a technique for a) Flow control b) Sequence c) Acknowledgement d) Retransmission
Ans. (c)
Q8. The layer in the OST model handles terminal emulation a) session b) application c) presentation d) transport

Ans. (b)
Q9. Long int size is a) 4 bytes b) 2 bytes c) compiler dependent d) 8 bytes
Ans. (c)
Q10. Find the output of x=2,y=6,z=6 x=y=z; printf("%d",x);
Q11. FTP is carried out in layer ?

Other questions: Problem related to pointers.Refer Page.123 of C Programming, by Kernight and Ritchie.

Few question related to C++