

Cadence Sample Question Paper

Aptitude

1. A sequence is given. You should find out error & write correct 1 2 5 10 13 26 29 48.
ans: Error is 48,there you should write 58.
2. 2,3 6,7 14,15 29,46. Error is 46. In every pair you add 1 to get second number. Ans:29+1=30
3. A girl is 13'th highest,13th lowest. How many member.
Ans:25
4. Rearrange MERGANY
Ans:GERMANY (country)
5. Rearrange BBIRAT
Ans:RABBIT
6. (passage) There are 6 persons k,l,m,n,o,p to give seminar cond: 3 persons should give before lunch and 3 after lunch
l should immediately precede the seminar of m there should be no gap between l and m

ans: 1. L position is 2
2 m pos is 5
3. k pos is 4

7. (passage)
A is daughter of Y, Z is father of Y. Q is son of Z,
1.if T is son of Y, then
ans: T and A brother/sister
2. if m is brother of T, then
ans :Z is grandfather of M and M & A are brother/sister
3. if Q is son of Z them
ans: Q & Y are brothers
Q. if speed of ongoing train is 24 and while return is 48
avg = ----
ans:32
8. $0.23 + 0.02323 + 0.002323\dots = ???$
9. $0.4 + 0.44 + 0.444 \dots = ???$
- 10.1,2,2,4,8,?
ans:32
11. $55*55*55+45*45*45/55*55-55*45+45*45$
ans:100
12. $4^{61} + 4^{62} + 4^{63} + 4^{64}$. this sum is divisible by which of the following ?
ans:17

C Language

1. `#define min((a),(b)) ((a)<(b))?(a):(b)`
`main()`
`{`
`int i=0,a[20],*ptr;`
`ptr=a;`
`while(min(ptr++,&a[9])<&a[8]) i=i+1;`
`printf("i=%d\n",i);}`

Ans:5.

2. `main()`
`{char a[10]={1,2,3,4,5,6};int x;`
`for(x=0;x<4;x++){ b[x]=x+'a';}`
`printf("%s",b);}`

Ans:abcd56

3. Linked Lists are preferred than arrays to get advantage while
a)Insertion b)Deletion c)Accessing Element d)None
4. `~(~0<<8)?` Ans:Last 8 digits are 1's rest are 0's.
5. `int a,b=3,c=2;`
`a=b++*c;c=++b*a;`Some thing like this.
print a,b,c?

C++ Language

1. Virtual Functions in C++(Refer to 13'th chapter first two examples of LAFORE Book)
2. Which of the following is not true regarding FRIEND function
Ans:If y is friend of x and z is friend of y then z can access private of x.
3. Given some program on "&" operator overloading.
4. `class X{`
`public:X(){ cout<<"This is Base";}`
`};`
`class Y:public X`
`{ public:Y(){cout<<"This is Derived";}}`;
what is printed when an object of Y is created?
5. One question on reference variable in C++.

Ans:&a.

Technical

1. Number of nodes in Binary tree with height 3

Ans:7(Refer to Formula 2^{n-1})

2. TCP/IP is used in?

Ans:LAN/WAN

3. Host IP Address is? Ans:32 bits OR 4 bytes.