

## JobDuniya

### Placement Papers: AMI BIOS 24th Feb 2004 Kolkata

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#### Logical Reasoning:

1. 3 types of chickens: Baby chickens cost 5 cents, hen chickens cost 3 dollars, rooster chickens cost 5 dollars. Buy 100 chickens for 100 dollars. How many will you have from each?
2. Calculate:  $(x-a)(x-b)(x-c) \dots (x-z)$  ?
3. What is the day after 4 days after 2 days before the day before tomorrow?
4. 2 trains each of length 1 mile enter into 2 tunnels of length 1 mile and 2 miles apart. Speed of trains are 5 and 10 miles/hr. Give the position as viewed by a helicopter when the trains meet?
5. A says I, m not guilty B says C is not guilty C says A is not guilty If all above are true. Can we say anyone is guilty/innocent? Who is most likely to be guilty?
6. 18 story building-Accountant, s office is 5 times the lawyer, s office. Architects office 2 floors up then he is halfway between Dentist, s & Accountant, s office. Architects office halfway down means between Dentist, s and Lawyer, s office. Give the order
7. How many tennis matches are to be arranged to conduct a tournament with 213 players?
8. In a family 7 children don, t eat spinach, 6 don, t eat carrot, 5 don, t eat beans, 4 don, t eat spinach & carrots, 3 don, t eat carrot & beans, 2 don, t eat beans & spinach. 1 doesn, t eat all 3. Find the no. Of children. C/C ++
  - a. `void main () {char a [6] = "INDIA" while (* a) {printf ( "% c" * a) ; a ++ ;} }`
    - i. india
    - ii. I N D I A
    - iii. no output
    - iv. error
    - v. Null
  - b. protected derivation
  - c. `int m = 10; main () {int m = 20; {int m = 30;} printf ( "% d % d" m, m) }`
    - i. 10 10

- ii. 10 20
  - iii. 20 10
  - iv. 20 30
  - v. 30 20
  - vi. None
- d. inline function is used to
- i. reduce program size
  - ii. reduce memory size
- e. void func (float newtotal) {newtotal = newtotal-2;} main () {float tot = 100.34; float sum = tot; sum ++ ; func (sum) ; cout <}
- i. 100.34
  - ii. 99.34
  - iii. 101.34
  - iv. 102.34
  - v. None
- f. unsigned char snapnib (unsigned char misc) {int aloha, hamalo; hamalo = aloha = misc; misc = (hamalo << 4) + ( aloha & 0 × of) >> 4) ; return (misc) ;} main () {int getinp; unsig char getmisc; scanf ( “% x” &getinp) ; getmisc = snapnib (getinp & oxff) ; printf ( “% x” getmisc) ;}
- i. Change line 4 to misc = (hamalo >> 4) + ( aloha & oxof) << 4)
  - ii. remove the 5
  - iii. Change line 4 to misc = (hamalo >> 4) + ( aloha & oxfo) << 4)
  - iv. Change line 11 to getmisc = snapnib (getinp)
  - v. Nothing
- g. main () {int getinp = 6; while (--getinp) {printf ( “% d” getinp) ; if (getinp ++ != 3) ; else break; if (getinp--!= 5) continue; else getinp = getinp-2;} }
- i. 5421
  - ii. 5420
  - iii. 541
  - iv. 6543
  - v. 5410

h. unsigned char inn [2] = "5" int i, j = 0; sscanf (inn, "% d" &i) ; while (i) {i = i - 1; j ++ ; printf ( "% d" ++ j) ;}

i. 14

ii. 12

iii. 24

iv. 35

v. none

i. char \* fn (int number) {char a [] = "Amen" return (&a [number] ) ;} main () {int i; char \* prechar; scanf ( "% d" &i) (input is 12) ; prechar = fn (i) ; printf ( "% c" \* prechar) ;}

i. a bus

ii. give string "Amen" as global

iii. use return (a [number] ) instead of return (&a [number] )

iv. give main before fn

j. unsigned char u = 32767; unsigned char y = 32768; u = u + y; printf ( "% d" (signed char) , u)

i. 65535

ii. -65535

iii. -1

iv. 1

v. none

k. \* name = "ANYTHING" \* foo = "ALRIGHT" \* name1 = "WRONG" strcat (name, name1) ; printf ( "% s % s \n" name, foo) ; return (0)

i. ANYTHING WRONG? WRONG?

ii. ANYTHING

iii. ANYTHING WRONG? ALRIGHT

iv. ERROR

v. NONE

Assembly

swap 2 variables without temp variables

(use XOR, OR, AND, NOT)

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