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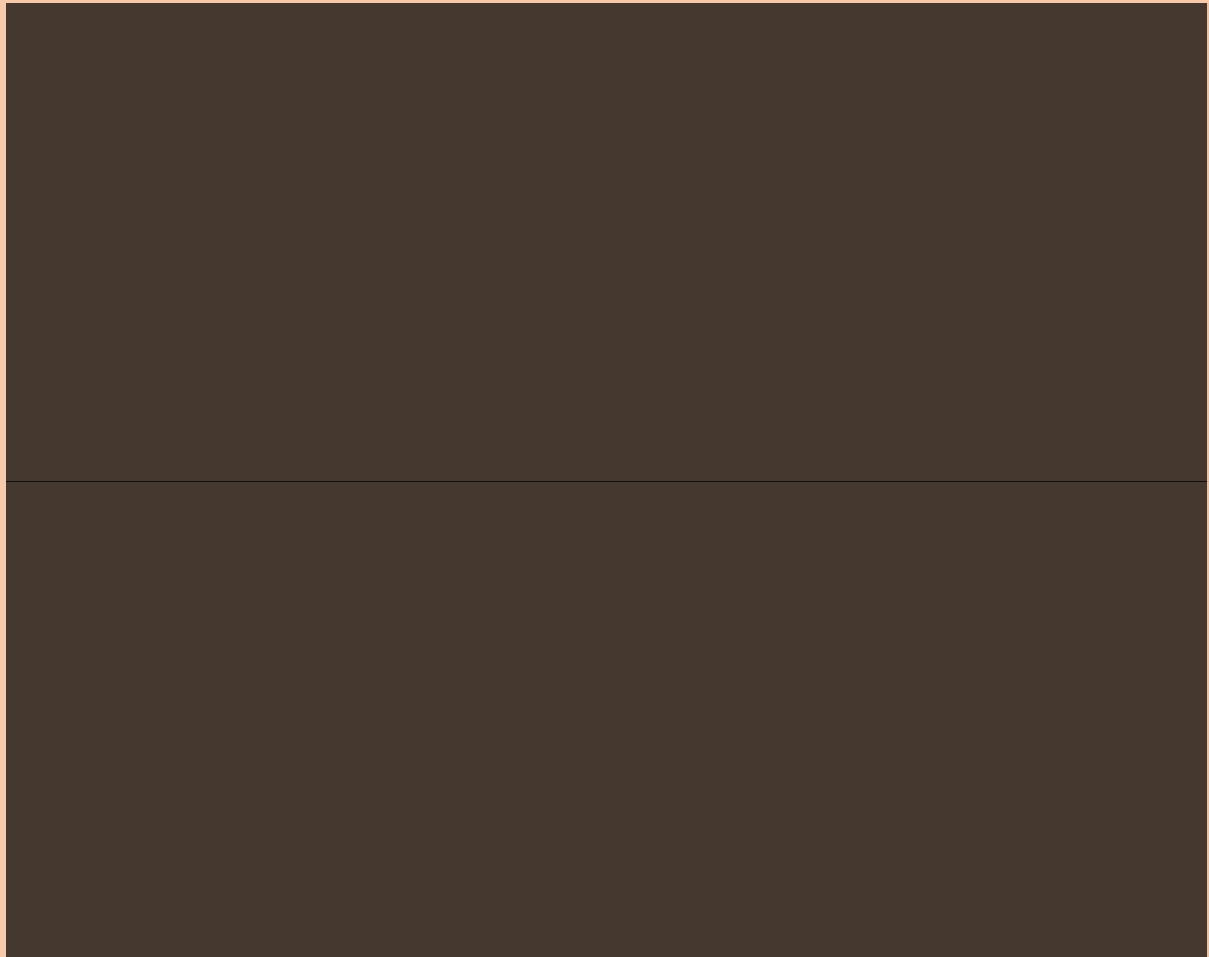
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Some paper may have repeated qns. Paper also may be repeated. I am just collecting all papers what I am having.

There are 4 sections.

- 1) Aptitude
- 2) General computer concepts
- 3) C programming
- 4) Flowchart analysis

There's negative marking. So be careful.

The only constraint is Time.

So if you can utilize the time well, then you will definitely clear the test. ALL THE BEST.

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1. 2.

Aptitude.

$a=2, b=3, c=6$ Find the value of $c/(a+b)-(a+b)/c$

Ans. 11/30

What does the hexa number E78 in radix 7. (a) 12455

(b) 14153 (c) 14256 (d) 13541 (e) 131112

In a murder case there are four suspects P,Q,R,S. Each of them makes a statement. They are
p:

"I had gone to the theatre with S at the time of the murder".q: "I was playing cards with P at
the time

of the murder".r: "Q didn't commit the murder".s: "R is not the murderer".Assuming the only
one of the above statement is false and that one of them is the murderer, who is the murderer?

- a) P
- b) Q
- c) R
- d) Can't be concluded

3.

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e) S

4. $k = \frac{(Q \times n - s)}{2}$. What is n?

(a) $(2 \times k + s)/Q$

(b) $(2 \times s \times k)/Q$

(c) $(2 \times k - s)/Q$

(d) $(2 \times k + s \times Q)/Q$ (e) $(k + s)/Q$

5 Mohan earned twice as much as Deep. Yogesh earned rs.3/- more than half as much as deep.

If the amounts earned by Mohan, Deep, Yogesh are M, D, Y respectively, Which of the following is the correct ordering of these amounts?

a) $M < D < Y$

b) $M < Y < D$

c) $D < M < Y$

d) It can't be determined from the information given e) $D < Y < M$

Questions 6 - 10 are to be answered on the following data 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

6. If A occurs which of the following must occur

I. F and 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

If B occurs which must occur

- (a) D

- (b) D and G (c) G and H (d) F and G (e) J

If J occurs which must have occurred (a) E

- (b) either B or C

- (c) both E & F (d) B
- (e) both B & C

Which may occurs as a result of cause not mentioned I. D

II. A III. F

- (a) I only (b) II only (c) I & II (d) II & III (e) I,II & III

10. E occurs which one cannot occurs (a) A

- (b) F

7.

8.

9.

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(c) D (d) C (e) J

11. Given that A,B,C,D,E each represent one of the digits between 1 and 9 and that the following multiplication holds:

ABCDE X4

EDCBA -----

a) 4 b) 6 c) 8 d) 7

what digit does E represent ?

12. HCL prototyping machine can make 10 copies every 4 seconds. At this rate, How many copies can the machine make in 6 min.?

a) 900

b) 600 c) 360 d) 240 e) 150

13. $10^2(10^8+10^8) = \text{-----} 10^4$ a) $2(10)^4$

b) $2(10)^6$

c) 10^8

d) $2(10)^8$ e) 10^{10}

14. Worker W produces n units in 5 hours. Workers V and W, workers independently but at the same time, produce n units in 2 hours.how long would it take V alone to produce n units?

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a) 1 hr 26 min b) 1 hr 53 min c) 2 hr 30 min d) 3 hr 30 min e) 3 hr 20 min

15. Six knights - P,Q,R,S,T and U - assemble for a long journey in Two traveling parties. For security, each traveling party Consists of at least two knights. The two parties travel by separate routes, northern and southern. After one month, the routes of the northern and southern groups converge for a brief time and at that point the knights can, if they wish, rearrange their traveling parties before continuing, again in two parties along separate northern and southern routes. Throughout the entire trip, the composition of traveling parties must be in accord with the following conditions P and R are deadly enemies and, although they may meet briefly, can never travel together. p must travel in the same party with s Q can't travel by the southern route U can't change routes

16. If one of the two parties of knights consists of P and U and two other knights and travels by the southern route,

the other members of this party besides P and U must be a) Q and S

b) Q and T

c) R and S

d) R and T

e) S and T

17. If each of the two parties of knights consists of exactly three members, which of the following is not a possible travelling party and route?

a) P,S,U by the northern route

b) P,S,T by the northern route

c) P,S,T by the southern route d) P,S,U by the southern route e) Q,R,T by the southern route

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18) If one of the two parties of knights consists of U and two other knights and travels by the northern route, the other members of this party besides U must be

a) P and S b) P and T c) Q and R d) Q and T e) R and T

19) If each of the two parties of knights consists of exactly three members of different parties, and R travels by the northern route, then T must travel by the

a) southern route with P and S

b) southern route with Q and R c) southern route with R and U d) northern route with Q and R e) northern route with R and U

20. If, when the two parties of knights encounter one another after a month, exactly one knight changes from one travelling party to the other travelling party, that knight must be

a) P b) Q c) R d) S e) T

C Programming

1. Which of the following about the following two declaration is true i) int *F()

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ii) int (*F)()

Choice :

a) Both are identical

b) The first is a correct declaration and the second is wrong

c) The first declaration is a function returning a pointer to an integer and the second is a pointer to function

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returning int

d) Both are different ways of declaring pointer to a function 2. What are the values printed by the following program?

```
#define dprint(expr) printf(#expr "=%d\n",expr) main()
```

```
{  
int x=7;  
int y=3; dprintf(x/y);
```

```
} Choice:
```

a) #2 = 2 b) expr=2 c) x/y=2 d) none

3. What is the output of the following program? int x= 0x65;

```
main() {
```

```
char x;
```

```
printf("%d\n",x) }
```

a) compilation error

4. What is the output of the following program

```
main() {
```

```
int a=10; int b=6;
```

b) 'A'

c) 65

d) unidentified

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```
if(a=3)
b++;
printf("%d %d\n",a,b++); }
```

a) 10,6 b)10,7 c) 3,6 **d) 3,7** e) none

5. What can be said of the following program? main()

```
{
enum Months {JAN =1,FEB,MAR,APR}; Months X = JAN;
if(X==1)
```

```
{
printf("Jan is the first month");
```

```
} }
```

a) Does not print anything

b) Prints : Jan is the first month

c) Generates compilation error d) Results in runtime error

6. What is the output of the following program? main()

```
{
int l=6; switch(l)
{ default : l+=2;
```

```
case 4: l=4; case 5: l++; break;
}
```

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```
printf("%d",l); }
```

a)8 b)6 **c)5** d)4 e)none

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7. What is the output of the following program? main()

```
{  
int x=20;  
int y=10;  
swap(x,y);  
printf("%d %d",y,x+2);
```

```
}  
swap(int x,int y)
```

```
{  
int temp; temp =x; x=y;
```

```
y=temp; }
```

a)10,20 b) 20,12 c) 22,10 **d)10,22** e)none

8. What is the size of the following union. Assume that the size of int =2, size of float =4 and size of char =1.

```
Union Tag{ int a;  
float b;
```

```
char c; };
```

a)2 **b)4** c)1 d) 7

1. Which of the following involves context switch,

(a) system call

(b) privileged instruction (c) floating point exception (d) all the above

General computer concepts

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(e) none of the above

2. In OST, terminal emulation is done in (a) sessions layer

(b) application layer

(c) presentation layer

(d) transport layer

3. For 1 MB memory, the number of address lines required, (a)11

(b)20

(c)22 (d) 24

4. Semaphore is used for

5.

6. 7

8

(a) synchronization

(b) dead-lock avoidance (c) box

(d) none

Piggy backing is a technique for a) Flow control b) sequence c) Acknowledgement d)
retransmission the operating system (mapping of virtual to physical address)

A 177333(conversion of HEX "0xFEDB" in octal)

In signed magnitude notation what is the minimum value that can be represented with 8 bits

(a) -128

(b) -255 (c) -127 (d) 0

This is all that I can recollect.

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Technical Interview:

There were 3 members in the Panel. They were really friendly.
They make u really comfortable.

- ▪ Be well versed with ur project.
- ▪ Be prepared with at least one software language (They almost cover all the topics in the subj chosen)

I told them that I was more comfortable with JAVA. They covered all the topics. Be clr with all the

basic concepts. If u don't know the answer 2 any question then just admit it.

- ▪ They may also ask u questions from ur resume
- ▪ The most important thing is RELAX(KEEP SMILING).

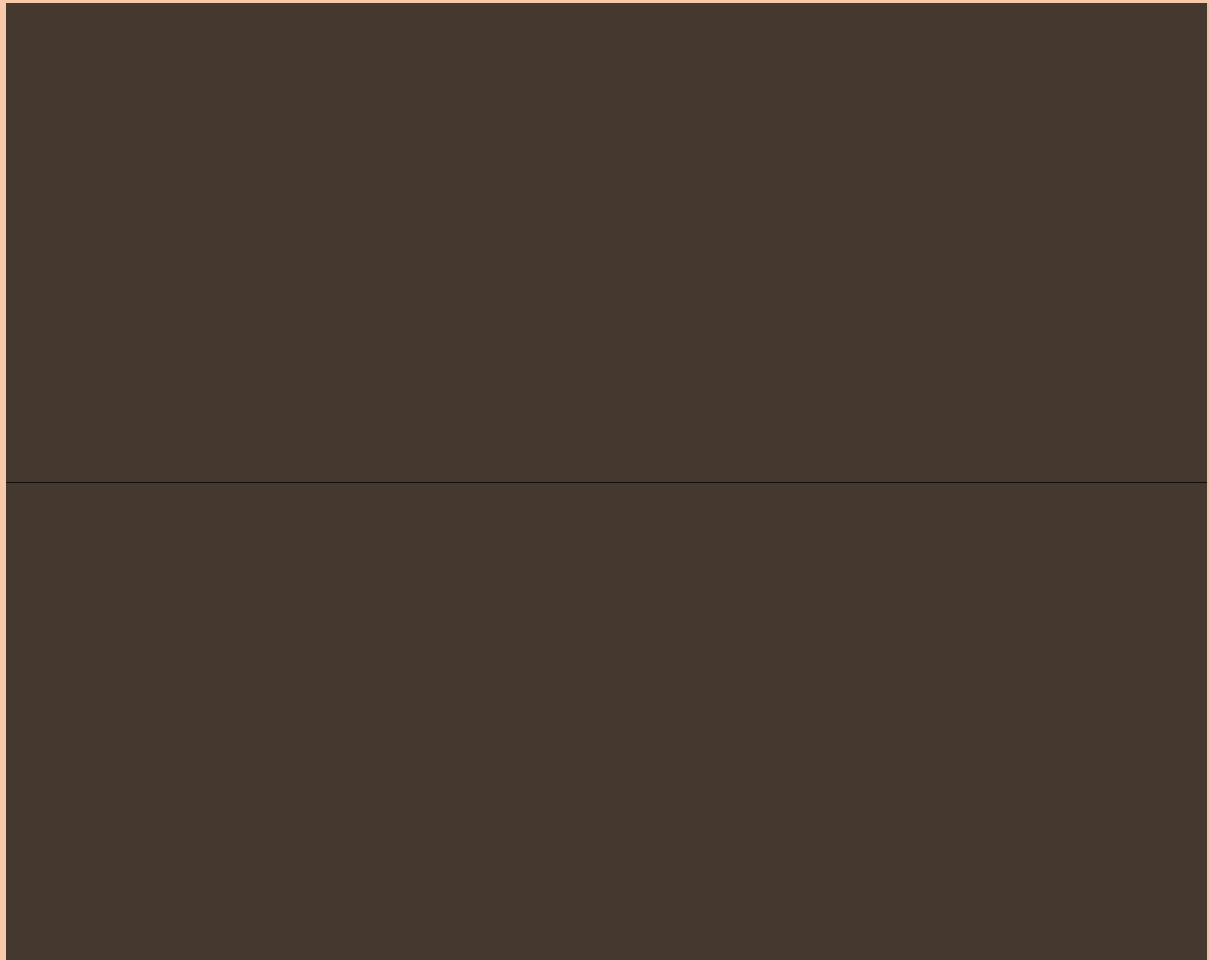
HR Interview:

This was not the regular kinda HR round.

- ▪ I was asked abt my parents
- ▪ My project
- ▪ Was given a realistic problem 2 solve.
- ▪ As I was from Hyd, he wanted me 2 convince him abt my commitment to HCL.

Aptitude.

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1.

2.

$a=2, b=3, c=6$ Find the value of $c/(a+b)-(a+b)/c$ Ans. $11/30$

What does the hexa number E78 in radix 7. (a) 12455

(b) 14153 (c) 14256 (d) 13541 (e) 131112 Ans. (d)

3. 10:4seconds::?:6minutes Ans. 90

4. Q is not equal to zero and $k = (Q \times n - s)/2$. What is n ? (a) $(2 \times k + s)/Q$

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- (b) $(2 \times s \times k)/Q$
(c) $(2 \times k - s)/Q$
(d) $(2 \times k + s \times Q)/Q$ (e) $(k + s)/Q$

5. From the following statements determining the order of ranking
M has double the amount as D Y has 3 rupees more than half the amount of D Ans. Data insufficient

Questions 6 - 10 are to be answered on the following data

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

6.

If A occurs which of the following must occur I. F and G

II. E and H

III. D

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

If B occurs which must occur (a) D

(b) D and G (c) G and H (d) F and G

7.

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(e) J

Ans. (a)

If J occurs which must have occurred

(a) E

(b) either B or C (c) both E & F (d) B

(e) both B & C Ans. (b)

Which may occur as a result of cause not mentioned I. D

II. A III. F

(a) I only (b) II only (c) I & II (d) II & III (e) I, II & III

Ans. (c)

10. E occurs which one cannot occur

(a) A

(b) F (c) D (d) C (e) J Ans. (b)

11. A 5 litre jug contains 4 litres of a salt water solution that is 15 percent salt. If 1.5 litres of the solution

spills out of the jug, and the jug is then filled to capacity with water, approximately what percent of the

8.

9.

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resulting solution in the jug is salt?

(A)7.5% (B)9.5% (C) 10.5% (D)12% (E)15%

12. Working independently, Tina can do a certain job in 12 hours. Working independently, Ann can do

the same job in 9 hours. If Tina Works independently at the job for 8 hours and then Ann works

independently, how many hours will it take Ann to complete the remainder of the jobs?

(A)2/3 (B)3/4 (C)1 (D)2 (E)3 Answer :E)3

13. In a murder case there are four suspects P,Q,R,S. Each of them makes a statement. They are p:

"I had gone to the theatre with S at the time of the murder".q: "I was playing cards with P at the time

of the murder".r: "Q didn't commit the murder".s: "R is not the murderer".Assuming the only one of the

above statement is false and that one of them is the murderer, who is the murderer? a) P

b) Q

c) R

d) Can't be concluded

e) S Ans: E

14. Mohan earned twice as much as Deep. Yogesh earned rs.3/- more than half as much as deep.

If the amounts earned by Mohan,Deep,Yogesh are M,D,Y respectively, Which of the following is

the correct ordering of these amounts? a) $M < D < Y$

b) $M < Y < D$

c) $D < M < Y$

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d) It can't be determined from the information given

e) $D < Y < M$

15. Statistics indicate that men drivers are involved in more accidents than women drivers.
Hence

it may be concluded that

a) sufficiently information is not there to conclude anything b) Men are actually better drivers
but drive more frequently c) Women Certainly drive more cautiously than Men

d) Men chauvinists are wrong about women's abilities.

e) Statistics sometimes present a wrong picture of things

16. Given that A,B,C,D,E each represent one of the digits between 1 and 9 and that the
following multiplication holds:

ABCDE X4

EDCBA -----

a) 4 b) 6 c) 8 d) 7 Ans: c

what digit does E represent ?

17. HCL prototyping machine can make 10 copies every 4 seconds. At this rate, How many
copies

can the machine make in 6 min.? a) 900

b) 600

c) 360

d) 240 e) 150 Ans: a

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18. If $a=2, b=4, c=5$ then $a+b \cdot c$

- ---- =

c $a+b$

a) 1

b) $11/30$ c) 0

d) $-11/30$ e) -1

Ans: b

19. $10^2(10^8+10^8) = \text{-----} 10^4$

a) $2(10)^4$ b) $2(10)^6$ c) 10^8

d) $2(10)^8$ e) 10^{10} Ans: b

20. Worker W produces n units in 5 hours. Workers V and W, workers independently but at the same time, produce n units in 2 hours. how long would it take V alone to produce n units?

a) 1 hr 26 min b) 1 hr 53 min c) 2 hr 30 min d) 3 hr 30 min e) 3 hr 20 min Ans: d

Six knights - P,Q,R,S,T and U - assemble for a long journey in Two travelling parties. For security, each travelling

party Consists of at least two knights. The two parties travel by separate routes, northern and southern. After one

month, the routes of the northern and southern groups converge for a brief time and at that point the knights can, if

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they wish, rearrange their travelling parties before continuing, again in two parties along separate northern and

southern routes. Throughout the entire trip, the composition of traveling parties must be in accord with the following

conditions P and R are deadly enemies and, although they may meet briefly, can never travel together. p must travel

in the same party with s

Q can't travel by the southern route U can't change routes

21. If one of the two parties of knights consists of P and U and two other knights and travels by the southern route,

the other members of this party besides P and U must be a) Q and S

b) Q and T

c) R and S

d) R and T e) S and T Ans: e

22. If each of the two parties of knights consists of exactly three members, which of the following is not a possible

travelling party and route?

a) P,S,U by the northern route b) P,S,T by the northern route c) P,S,T by the southern route d) P,S,U by the southern route e) Q,R,T by the southern route Ans: b

23) If one of the two parties of knights consists of U and two other knights and travels by the northern route, the

other members of this party besides U must be a) P and S

b) P and T

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c) Q and R d) Q and T e) R and T

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Ans: c

24) If each of the two parties of knights consists of exactly three members of different parties, and R travels by the

northern route, then T must travel by the a) southern route with P and S

b) southern route with Q and R

c) southern route with R and U

d) northern route with Q and R e) northern route with R and U Ans: a

25. If, when the two parties of knights encounter one another after a month, exactly one knight changes from

one travelling party to the other travelling party, that knight must be a) P

b) Q c) R d) S e) T Ans: e

26. A gambler bets on the team of seven players ABCDEFG whose winning a-4 to 1 against b-4 to 1 against c-4

to 1 against d-4 to 1 against e-5 to 1 against f-6 to 1 against g. how should he bet on g to set 20% profit.

27. If a person buy radio worth Rs 2468 and pay 7% sales .how much price of radio should reduce to pay

only Rs 2468.

28 What is vasu salary if salary of vasu is more than rajan salary working in same company

i) vasu salary is 100 more than rajan salary.

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ii) rajan found 2000 allowances which is 50 less than vasu. (iii) basic salary of rajan is 1000.

(i) only i is required (ii) i & ii is required (iii) i & iii is required

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(iv) i & ii & iii is required

(v) none of these

29. If in 100 miles race 8 person is running winner take 9.8 sec and fifth man takes 10.4 sec the time of 8 man is

in AP if in 4*100 meters relay of 8 position then win by. a).3 sec b).1 sec c).7 sec d).5 sec e) none

30. How many sons X have qwe based on relation i)

ii)

iii)

ans (data i, ii, iii is insufficient)

31. A sink has 12 lits of water some quantity of water is taken out. if the remainng water is 6 litres less then the

water taken out then quantity of water taken out is. a.3

b.6 c.9 d.1

32. which is the 4 digit number whose second digit is thrice the first digit and 3'rd digit is sum of 1'st and 2'nd and

last digit is twice the second digit. 1.2674

2.1349. 3.3343 4.3678

33. In a straight highway 2 cars starts from the same point in opposite directions each travels for

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8 Kms and take

left turn then travel for 6 Kms what is the distance between them now.

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1.16 2.20 3.25 4.10

34. A problem based on house numbers.

35. Five students compare their test and quiz marks. some data is given. 5 questions based on this.

C Programming

1. Which of the following about the following two declarations is true i) `int *F()`

ii) `int (*F)()`

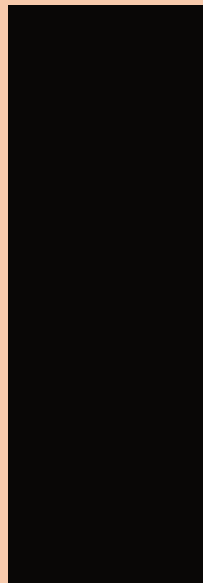
Choice :

a) Both are identical

b) The first is a correct declaration and the second is wrong

c) The first declaration is a function returning a pointer to an integer and the second is a pointer to

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function returning int

d) Both are different ways of declaring pointer to a function 2. What are the values printed by the following program?

```
#define dprint(expr) printf("#expr \"=%d\\n\",expr) main()
```

```
{  
int x=7;  
int y=3; dprintf(x/y);
```

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} Choice:

a) #2 = 2 b) expr=2 c) x/y=2 d) none Answer: c)x/y=2

3. Which of the following is true of the following program main()

```
{  
char *c;  
int *p;  
c =(char *)malloc(100);
```

Answer : c) The first de...

FINAL

```
ip=(int *)c;
```

```
free(ip); }
```

ans: The code functions properly releasing all the memory allocated 4.output of the following.

```
main() {
```

```
int i;  
char *p; i=0X89; p=(char *)i; p++; printf("%x\n",p);
```

```
} ans:0X8A
```

5 which of the following is not a ANSI C language keyword? ans:Function.

6. When an array is passed as parameter to a function, which of the following statement is correct choice:

- a) The function can change values in the original array
- b) In C parameters are passed by value. The function cannot change the original value in the array
- c) It results in compilation error when the function tries to access the elements in the array
- d) Results in a run time error when the function tries to access the elements in the array

Answer: a) The fu...

7. The type of the controlling expression of a switch statement cannot be of the type

a) int b) char c) short d)float e) none

Answer : d)float

8. What is the value of the expression (3^6) + (a^a)?

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a) 3 b) 5 c) 6 d) a+18 e) None

Answer : 5

9. What is the value assigned to the variable X if b is 7 ?

$X = b > 8 ? b < 3 : b > 4 ? b > 1 : b$; a) 7 b) 28 c) 3 d) 14 e) None

ans: 3;

10. Which is the output produced by the following program

```
main() {
```

```
int n=2;
```

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FINAL

```
printf("%d %d\n", ++n, n*n); }
```

a) 3,6 b) 3,4 c) 2,4 d) cannot determine Answer : b) 3,4

11. What is the output of the following program? `int x= 0x65;`

```
main() {
```

```
char x;
```

```
printf("%d\n",x) }
```

a) compilation error

12. What is the output of the following program

```
main() {
```

```
int a=10;
```

```
int b=6;
```

```
if(a=3)
```

```
b++;
```

```
printf("%d %d\n",a,b++); }
```

a) 10,6 b) 10,7 c) 3,6 d) 3,7 e) none Answer : d) 3,7

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13. What can be said of the following program? main()

```
{  
enum Months {JAN =1,FEB,MAR,APR}; Months X = JAN;  
if(X==1)  
  
{  
printf("Jan is the first month");  
  
}}  

```

- a) Does not print anything
b) Prints : Jan is the first month c) Generates compilation error d) Results in runtime error

b) 'A'

c) 65

d) unidentified

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Answer: b) Prints : Jan..

14. What is the output of the following program?

```
main() {  
  
char *src = "Hello World"; char dst[100]; strcpy(src,dst); printf("%s",dst); }strcpy(char *dst,char *src)  
  
{while(*src) *dst++ = *src++; }  

```

) "Hello World" b)"Hello" c)"World" d) NULL e) unidentified Answer: d) NULL

15. What is the output of the following program? main()

```
{  
int l=6; switch(l)  
{ default : l+=2;  
  
case 4: l=4; case 5: l++; break;  
} printf("%d",l);  

```

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```
}  
a)8 b)6 c)5 d)4 e)none
```

Answer : c)5

16. What is the output of the following program?

```
main() {  
  
int x=20;  
int y=10;  
swap(x,y);  
printf("%d %d",y,x+2);  
  
}  
swap(int x,int y)  
  
{
```

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```
int temp; temp =x; x=y;
```

```
y=temp; }
```

a)10,20 b) 20,12 c) 22,10 d)10,22 e)none Answer:d)10,22

17. What is the output of the following problem ? #define INC(X) X++

```
main() {  
  
int X=4;  
  
printf("%d",INC(X++)); }
```

a)4 b)5 c)6 d)compilation error e) runtime error Answer : d) compilation error

18. what can be said of the following struct Node {

```
char *word;  
int count;  
struct Node left;
```

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```
struct Node right; }
```

- a) Incorrect definition
 - b) structures cannot refer to other structure
 - c) Structures can refer to themselves. Hence the statement is OK
 - d) Structures can refer to maximum of one other structure
- Answer :c)

19. What is the size of the following union. Assume that the size of int =2, size of float =4 and size of char =1.

```
Union Tag{ int a;  
float b;
```

```
char c; };
```

- a)2 b)4 c)1 d) 7

20. What is the output of the following program? (. has been used to indicate a space)

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```
main() {
```

```
char s[]="Hello,.world"; printf("%15.10s",s);
```

```
}
```

- a)Hello,.World... b)....Hello,.Wor c)Hello,.Wor.... d)None of the abov

Aptitude

1. How many of the integers between 25 and 45 are even ? (A)21 (B)20 (C)11 (D)10 (E)9

Ans:d)10

2. If taxi fares were Rs 1.00 for the first 1/5 mile and Rs 0.20 for each 1/5 miles thereafter. The taxi fare for

a 3-mile ride was

- (A)Rs 1.56 (B)Rs 2.40 (C)RS 3.00 (D)Rs 3.80 (E)Rs 4.20

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Answer :d)Rs 3.80

3. A computer routine was developed to generate two numbers (x,y) the first being a random number between

0 and 100 inclusive, and the second being less than or equal to the square root of the first. Each of the following

pair satisfies the routine EXCEPT

(A) (99.10) (B) (85.9) (C) (50.7) (D) (1.1) (E) (1.0) Answer : A) (99.10)

4. A warehouse had a square floor with area 10,000 sq.meters. A rectangular addition was built along one entire side

of the warehouse that increased the floor by one-half as much as the original floor. How many meters did the

addition extend beyond the original buildings ? (A)10 (B)20 (C)50 (D)200 (E)500

Ans: c)50

5. A digital wristwatch was set accurately at 8.30 a.m and then lost 2 seconds every 5 minutes. What time was

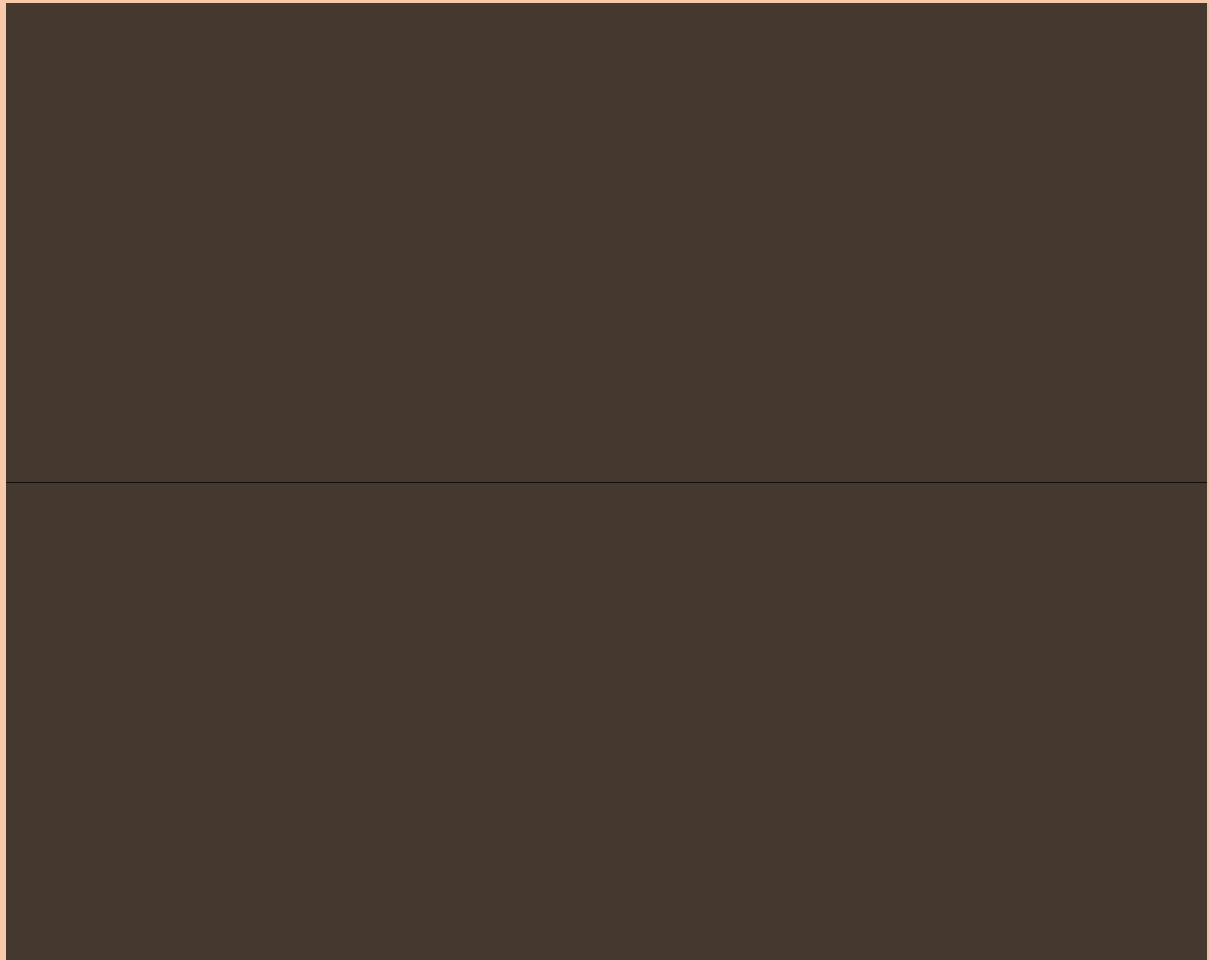
indicated on the watch at 6.30 p.m of the same day if the watch operated continuously that time ?

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(A)5:56 (B)5:58 (C)6.00 (D)6.23 (E)6.26 Ans :E) 6.26

6. A 5 litre jug contains 4 litres of a salt water solution that is 15 percent salt. If 1.5 litres of the solution spills out

of the jug, and the jug is then filled to capacity with water, approximately what percent of the resulting solution

in the jug is salt?

(A)7.5% (B)9.5% (C) 10.5% (D)12% (E)15% Ans :A)7.5%

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7. A plane travelled K miles in the first 96 miles of flight time. If it completed the remaining 300 miles of the

trip in 1 minute, what was its average speed in miles per hour for the entire trip ? (A)

(B) (C) (D) (E)

Ans : $(300+k)/97 * 60$

8. A merchant sells an item at a 20 percent discount. but still makes a gross profit of 20 percent of the cost.

What percent of cost would be gross profit on the item have been if it had been sold without the discount?

(A)20% (B)40% (C)50% (D)60% (E)66.6% Ansr :c) 50%

9. A millionaire bought a job lot of hats 1/4 of which were brown. The millionaire sold 2/3 of the hats including

4/5 of the brown hats. What fraction of the unsold hats were brown. (A)1/60 (B)1/15 (C)3/20 (D)3/5 (E)3/4

Ans :c)3/20

10. How many integers n greater than and less than 100 are there such that,if the digits of n are reversed,

the resulting integer is n+9 ?

(A)5 (B)6 (C)7 (D)8 (E)9 Ans :D)8

11. An investor purchased a shares of stock at a certain price.If the stock increased in price Rs 0.25 per share

and the total increase for the x shares was Rs 12.50, how many shares of stock had been purchased

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?

(A)25 (B)50 (C)75 (D)100 (E)125 Ans :B)50

12 At a special sale, 5 tickets can be purchased for the price of 3 tickets. If 5 tickets are purchased at the sale,

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the amount saved will be What percent of the original price of the 5 tickets?

(A) 20% (B) 33.3% (C) 40% (D) 60% (E) 66.6%

Ans :c)40%

13. Working independently, Tina can do a certain job in 12 hours. Working independently, Ann can do the same job

in 9 hours. If Tina Works independently at the job for 8 hours and then Ann works independently, how many hours

will it take Ann to complete the remainder of the jobs? (A) $\frac{2}{3}$ (B) $\frac{3}{4}$ (C) 1 (D) 2 (E) 3

Ans :E)3

14. A decorator bought a bolt of d m number of red chips in any one stack ?

(A) 7 (B) 6 (C) 5 (D) 4 (E) 3

Ans :C) 5

15. A sink has 12 lits of water some quantity of water is taken out. if the remainng water is 6 litres less then the

water taken out then quantity of water taken out is. a. 3

b. 6 c. 9 d. 1

16. which is the 4 digit number whose second digit is thrice the first digit and 3'rd digit is sum of 1'st and 2'nd and

last digit is twice the second digit. 1.2674

2.1349. 3.3343 4.3678

left turn then travel for 6 Kms what is the distance between them now. 1.16

2.20

17.

and take

In a straight highway 2 cars starts from the same point in opposite directions each travels for 8 Kms

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3.25

4.10

4.A problem based on house numbers.

18. Five students compare their test and quiz marks. some datas given. 5 questions based on this.

6.

which of the following statement is valid for string copy `char *srt,*ptr;`

a) `while(*str) { *str=*ptr;`

`++str==++ptr; }`

b) `while(*str) {*++str=*++ptr};`

c)

Two variable cannt have the same name in

a)function b) block c) file d)--- C Section #define inc(x) x++

7 8

Q. there is an employer table with key feilds as employer no. data in every n'th row are needed for a queries will get required results.

a) select A employe no. from employe A , where exists from employe B where A employe no. = B

employe

having (count(*) mod n)=0

b) select employe no. from employe A, employe B where A employe no. = B employ no. grouply employe no. having (count(*) mod n=0)

c) botha&b

d) none of the above

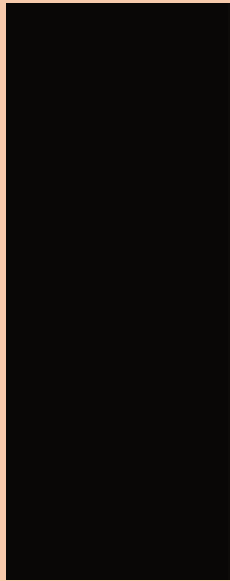
4. Piggybacking is done for, Ans=>Acknowledgement. 5. WHICH IS NOT BASIC data type ans.Char*

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1

2

Technical Section

In ANSI C which is such thing is not in Java. typedef struct node

{ int

NODEPTR * NODE }

Q. In signed magnitude notation what is the minimum value that can be represented with 8 bits a) -128 b) -255 c) -127 d) 0

3

simple following

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```
main() {
```

```
int t=1;
```

```
printf("%d",inc(t++)); }
```

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9 . one or two que for the complicated declaration.

10. Const char *a="Abcd"; char const *a="lmno"; base do this,Two que were there.

11. char *p ;

char q[20];

12. int i,*p=&i;

p=malloc(10); free(p); printf("%d",p); ans : garbage

13. int i=20,*j=&i f(i)

printf("%d",i);

14. #define val 1+2

printf("%d%d",val/val,val^3)

ans : 3 9

15. #define "this" "#"

#define (x,y) x##y printf("this","this is")

ans: compilation error (tested)

16. (2^2)+(a^a)

17. int a ,b=7

a=b<4?b<<1:b>4?7>>1:a

ans.3

18. one que on c++ class member function

ans.d

19. work of memory management unit.

20. who relate virtual memory to physical memory

21. memory is allocated to variable

a)when declared b)when define c)...

22. Question on double linked list

23. Define success 1

define failure -1

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ans.os

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if(condition) printf(success); else

printf(failure); ans success

24 . main() {

25.

26. 27.

28. 29.

30. 31.

```
int var=25,varp;  
varp=&var;  
varp=10;  
fun(varp); printf("%d%d",var,varp);  
ans a)45,45 b)55,55 c) 20,55;
```

u r given two statements a=(10.15);

b=10,15;
if they are executed what is the output

a)10,15 b)15,10 c)10,10 d)15,15 define null 0 ans=0;

```
#define inc(x) x++  
main()
```

```
{  
int t=1; printf("%d",inc(t++));
```

```
} ans.error
```

argument in funtion can be passed 1)by value 2)by reference 3).... main

```
{int x=1,y=2,z=3; x=y==z; printf(x);
```

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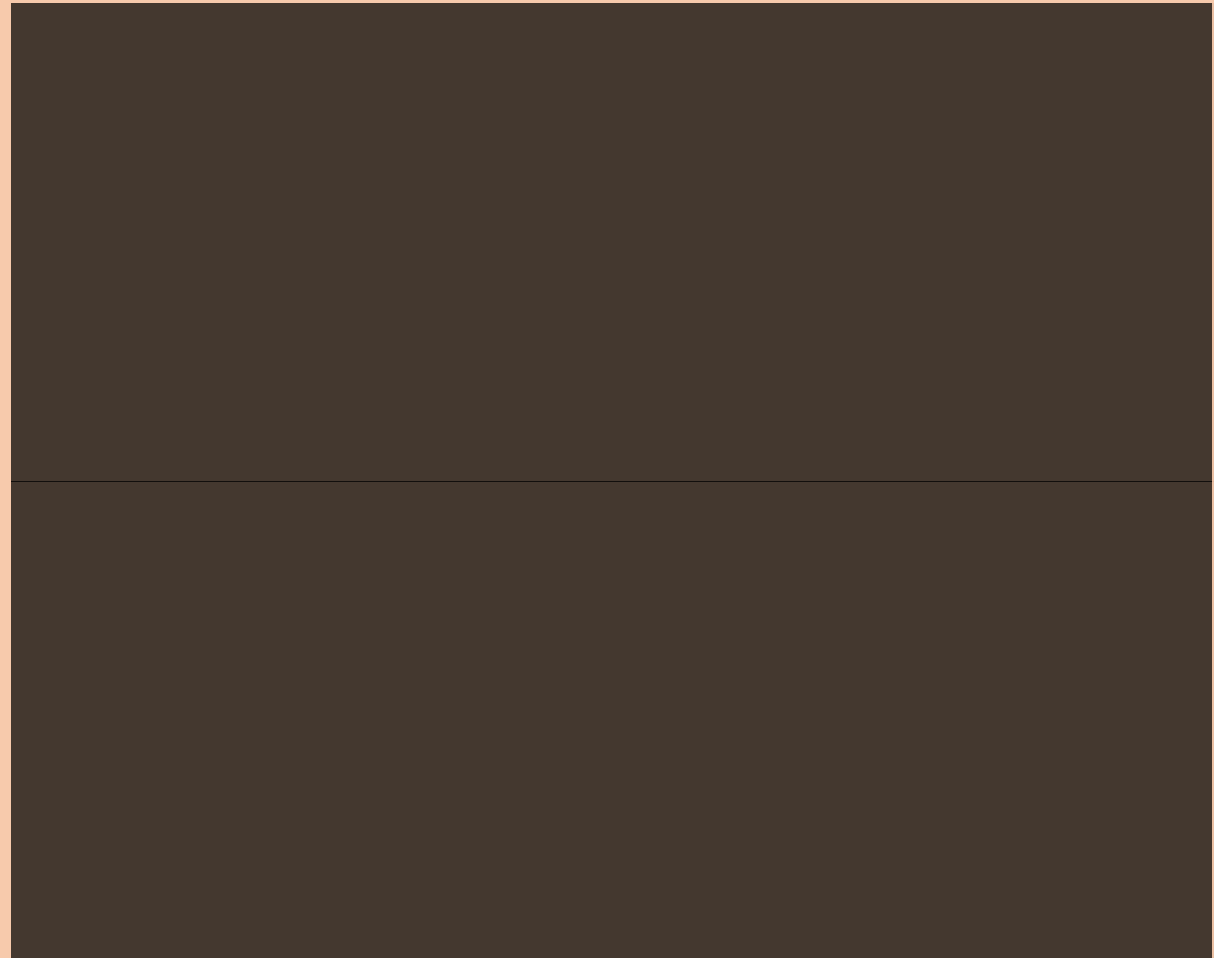
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```
}
```

in switch float is not used
one question on register variable.

```
printf("%d%d",a,b); ans a
```

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Section A

1. Which of the following involves context switch, (a) system call

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- (b) privileged instruction
- (c) floating point exception (d) all the above
- (e) none of the above

Ans: (a)

2. In OST, terminal emulation is done in

- (a) sessions layer
- (b) application layer (c) presentation layer (d) transport layer Ans: (b)

3. For a 25MHz processor, what is the time taken by the instruction which needs 3 clock cycles,
(a) 120 nano secs

- (b) 120 micro secs (c) 75 nano secs (d) 75 micro secs

4. For 1 MB memory, the number of address lines required, (a) 11

- (b) 16 (c) 22 (d) 24 Ans: (b)

5. Semaphore is used for (a) synchronization
(b) dead-lock avoidance (c) box

- (d) none

Ans: (a)

6. Which holds true for the following statement

class c: public A, public B a) 2 member in class A, B should not have same name

- b) 2 member in class A, C should not have same name c) both
- d) none

Ans: (a)

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- 7. Question related to java
- 8. OLE is used in
 - a) inter connection in unix
 - b) interconnection in WINDOWS
 - c) interconnection in WINDOWS NT

Ans. (b)

- 9. Convert a given HEX number to OCTAL
- 10. Macros and function are related in what aspect?

- (a) recursion
- (b) varying no of arguments
- (c) hypochecking
- (d) type declaration

Ans.(b) Varying No. of Arguments.

- 11. Preprocessor does not do which one of the following

- (a) macro
- (b) conditional compilation
- (c) in type checking
- (d) including load file

Ans. (c)

- 12. Piggy backing is a technique for a) Flow control

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- b) Sequence
 - c) Acknowledgement d) retransmission
- Ans. (c)

13. In signed magnitude notation what is the minimum value that can be represented with 8 bits
(a) -128

(b) -255 (c) -127 (d) 0

Ans.(a) -128

14. There is an employer table with key fields as employer number data in every n'th row are needed for a simple following

queries will get required results.

(a) select A employee number from employee A , where exists from employee B where A employee no.

$\geq B$

employee having (count(*) mod n)=0

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(b) select employee number from employee A, employee B where A employee number $\geq B$ employee number group by employee number having(count(*) mod n=0)

(c) both (a) & (b)

(d) none of the above

15. Type duplicates of a row in a table customer with non uniform key field customer number you can see

a) delete from costomer where customer number exists(select distinct customer number from customer having count)

b) delete customer a where customer number in b rowid

c) delete customer a where custermor number in(select customer number from customer a, customer b)

d) none of the above

Section B

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1. Given the following statement enum day = { jan = 1 ,feb=4, april, may} What is the value of may?
(a) 4

- (b) 5
- (c) 6
- (d) 11
- (e) None of the above

Ans c) 6

2. Find the output for the following C program

```
main() {int x,j,k;
```

```
j=k=6;x=2; x=j*k; printf("%d", x);
```

Ans.36

3. Find the output for the following C program

```
fn f(x)
```

```
{ if(x<=0)
```

```
return;
```

```
else f(x-1)+x; }
```

4. Find the output for the following C program i=20,k=0;

```
for(j=1;j<i;j=1+4*(i/j))
```

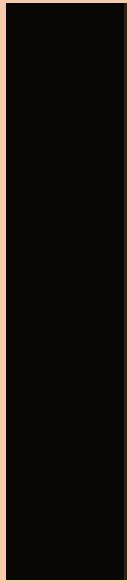
```
{k+=j<10?4:3; }
```

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printf("%d", k); Ans. k=4

5. Find the output for the following C program int i =10

```
main()
{int i =20,n; for(n=0;n<=i;) {int i=10;
```

```
i++; }
```

```
printf("%d", i);
```

Ans. i=20

6. Find the output for the following C program

```
int x=5;
```

```
y= x&y
```

7.Find the output for the following C program

```
Y=10;
```

```
if( Y++>9 && Y++!=10 && Y++>10) {printf("%d", Y);
```

```
else printf("%d", Y); }
```

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Ans. 13

8. Find the output for the following C program

`f=(x>y)?x:y`

a) f points to max of x and y b) f points to min of x and y c) error

Ans. (a)

9. What is the sizeof(long int)

(a) 4 bytes

(b) 2 bytes

(c) compiler dependent (d) 8 bytes

10. Which of the function operator cannot be over loaded (a) <=

(b) ?:

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(c) =

(d) *

11. Find the output for the following C program

```
main() {int x=2,y=6,z=6;
```

```
x=y==z; printf("%d",x)
```

```
}
```

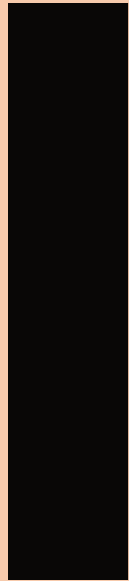
Section C

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Section C (Programming Skills) Answer the questions based on the following program
STRUCT
DOUBLELIST
{ DOUBLE CLINKED
INT DET; LIST VOID

STRUCT PREVIOUS; (BE GIVEN AND A PROCEDURE TO DELETE) STRUCT NEW; (AN
ELEMENT WILL BE GIVEN)
}

DELETE(STRUCT NODE) {NODE-PREV-NEXT NODE-NEXT; NODE-NEXT-PREV NODE-PREV;
IF(NODE==HEAD)

NODE

}

1. In what case the prev was

- (a) All cases
- (b) It does not work for the last element
- (c) It does not for the first element
- (d) None of these

Answer the questions based on the following program
VOID FUNCTION(INT KK)
{KK+=20;

}

VOID FUNCTION (INT K) INT MM,N=&M

KN = K

KN+=10;

}

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2. What is the output of the following program main()

```
{ int var=25,varp; varp=&var;  
varp p = 10;  
fnc(varp) printf("%d%d,var,varp); }
```

(a) 20,55 (b) 35,35 (c) 25,25 (d)55,55

3. Here is the structure declaration of a doubly linked list struct dlink {

```
int nodeid;  
struct dlink *next; struct dlink *prev;
```

```
} dlink_t;
```

A pointer of the head of the linked list is maintained as a global variable, whose definition is dlink_t

*head; The funtion

remove_element(dlink_t *rp), needs to remove the node pointed to the rp and adjust the head. The

first node's prev

and the last node's next are NULL. remove_element(dlink_t *rp)

```
{  
rp->prev->next = rp->next; rp->next->prev = rp->prev;
```

```
if( head == rp) head = rp->next;
```

```
}
```

a) It work when head is the same as rp

b) It does not work when rp is the last element on the list

Which of the following statement is true about the fution remove_element

c) It sets the head of the list correctly d) It works in all cases

Answer :B) It does...

4. Consider the following function written in c:

```
#define NULL 0 char *
```

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```
index(sp,c) register char *sp,c;
```

```
{ do {
```

```
if(*sp == c) return (sp);  
} while (*sp++);
```

```
return NULL; }
```

The first argument sp, is a pointer to a C string. The second argument, c, is a character. This function searches

for the character c, in the string. If it is found a pointer to that location is returned else NULL is returned. This

function works

- a) Always
- b) Always, but fails when the first byte contains the character c
- c) works when c is a non NULL character only
- d) Works only when the character c is found in the string

ans: a

5. What is printed when this program is executed

```
main() {
```

```
printf ("%d\n",f(7)); }
```

```
f(X) {
```

```
if ( x<= 4) return x; return f(--x);
```

```
} a) 4
```

b) 5 c) 6 d) 7

ans: a

6. On a machine where pointers are 4 bytes long, what happens when the following code is executed.

```
main()
```

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```
{  
int x=0,*p=0;  
x++; p++;  
printf ("%d and %d\n",x,p);
```

- ```
}
```
- a) 1 and 1 is printed
  - b) 1 and 4 is printed
  - c) 4 and 4 is printed
  - d) causes an exception

7. Which of the following is the correct code for strcpy, that is used to copy the contents from src to dest? a) strcpy (char \*dst,char \*src)

```
{
while (*src) *dst++ = *src++;
```

- ```
}
```
- b) strcpy (char *dst,char *src)

```
{  
while(*dst++ = *src++ )
```

- ```
}
```
- c) strcpy (char \*dst,char \*src)

```
{
while(*src)
{ *dst = *src;

dst++; src++; }
```

- ```
}
```
- d) strcpy(char *dst, char *src)

```
{  
while(*++dst = *++src);
```

```
}
```

ans:b

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8. Consider the following program main()

```
{  
int i=20,*j=&i; f1(j);  
*j+=10;
```

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```
f2(j);
```

```
printf("%d and %d",i,*j); }
```

```
f1(k) int *k;
```

```
{  
*k +=15; }
```

```
f2(x)
```

```
int *x; {
```

```
int m=*x,*n=&m; *n += 10;  
}
```

The values printed by the program will be a) 20 and 55

b) 20 and 45

c) 45 and 45

d) 45 and 55

e) 35 and 35

9. what is printed when the following program is compiled and executed?

```
int  
func (int x)
```

```
{  
if (x<=0)
```

```
return(1);  
return func(x -1) +x;
```

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```
} main()
```

```
{  
printf("%d\n",func(5));
```

```
} a) 12
```

b) 16 c) 15 d) 11

Ans..b) 16.

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10. Consider the following of c code in two files which will be linked together and executed . a.c: int i;

```
main() {
```

```
i = 30;  
f1(); printf("%d\n",i)
```

```
}  
b.c: static int f1()
```

```
{  
i+=10;  
} which of the following is true ?
```

- a) a.c will fail in compilation phase because f1() is not declared
 - b) b.c will fail in compilation because the variable i is not declared c) will print 30
 - d) will print 40
 - e) a & b
- ans: e) a & b

11. Consider the following prg void funca (int *k)

```
{  
*k += 20
```

```
}  
void funcb (int *x)
```

```
{  
int m=*x,*n = &m; *n+=10;
```

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```
} main()
```

```
{  
int var = 25,*varp=&var; funca(varp);  
*varp += 10;  
funcb(varp);  
printf ("%d and %d\n",var,*varp);
```

```
}
```

The values printed when the above prg is compiled and executed are:

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a) 20 and 55 b) 20 and 45 c) 45 and 55 d) 55 and 55 e) 35 and 35 ans: d

12. consider the following program: # include

```
class x { public:
```

```
int a; x();
```

```
};
```

```
x::x() { a=10; cout << "a=" << a << endl; }
```

```
public: b();
```

```
};
```

```
b::b() { a=20; cout << "b=" << a << endl; }
```

what will be the output of this prg?

APTITUDE PAPER

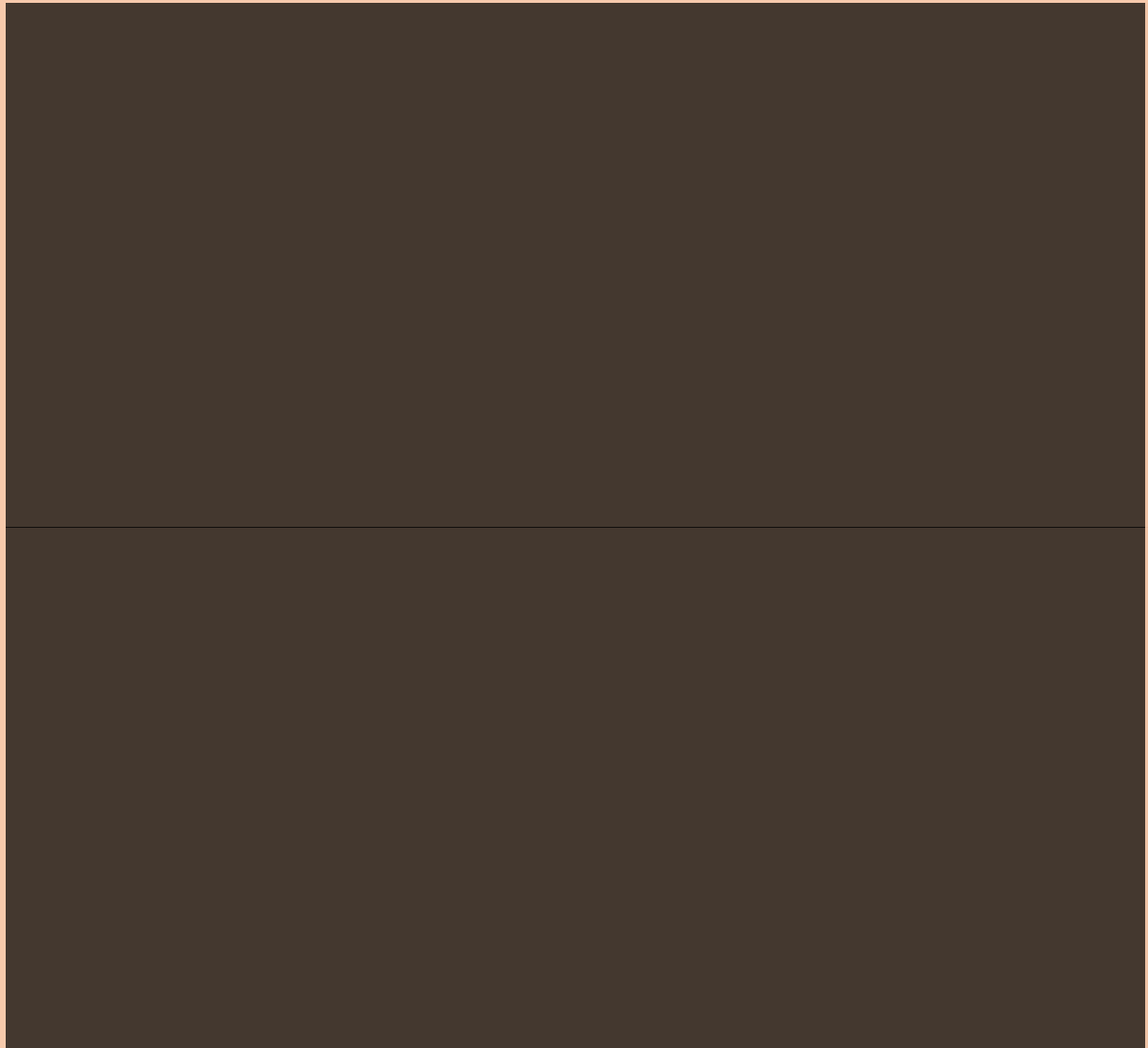
a) 10 b) 20 c) 2010 d) 1020 ans: b

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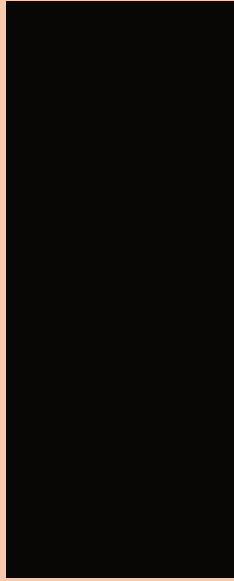
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1 The closing of the restaurant by Mr. X on SEPT 1 was considered an unfinancial one, as the weather

remained unusually clear and sunny for another one month. An author who criticizes the act of Mr. X

would be proved wrong if the following was true??

ANS choice a) the weather did not usually remain fine after SEPT 1.

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2 SUSAN works in a company who has restricted its employees from smoking cigarettes in the canteen.

As Susan is the employee of the company she does not smoke cigarettes in the canteen. Which of the following

unused phrases strengthens the rules of the company??

ANS the employees normally do not do the work for which the company has forbidden them to do.

3 A question on family relation was given like How many sons X has, I P is the daughter of X, II some condition, III some

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condt. ANS al I ,II, III together are not sufficient.

4. 4 A q's in which a name KAPIL is given he visits manoj's home.some condt's given.
ANS b)

5. 5 A,B,C,D are the 4 plays which are organised starting from tuesday.find the day on which C

was played.in this

6

.

2 condt. will be given as , I....., II....., ANS both I and II A quest on crypto graphy like

ABCD

EFGH -----

..... is A=, find the other values. practice these types of quest.

A question on race was given.hell lot of condt's.finally they make a team for 4*100 metres

7. medaly.

ANS E none of the above

8. Piggy backing is a technique for a) Flow control b) sequence c) Acknowledgement d) retransmission

ans: c piggy backing

9.. The layer in the OST model handles terminal emulation presentation d) transport

a) session b) application c)

ans: b application

10 ans: a odd numbers of errors

11. In signed magnitude notation what is the minimum value that can be represented with 8 bits

a) -128 b) -255 c) -127 d) 0 ANS a)

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12 13

c 20(no of address lines in 1MB of memory)

A 120(25 hz processor, what is the time taken by the instr which needs 3 clock cycles) B
synchronise the access(semaphores used for)

A system call(context switching is used in)

B the operating system(mapping of virtual to physical address)

A 177333(conversion of HEX "0xFEDB" in octal)

D used as a network layer protocol in network and windows(OLE) system

B has to be unique in the sub network(internet address)

There is an employer table with key fields as employer no. data in every n'th row are needed

14

15

16

17

18

19

20.

for a simple

following queries will get required results.

a) select A employe no. from employee A , where exists from employee B where A employe no.

\geq B employe

having (count(*) mod n)=0

b) select employe no. from employee A, employee B where A employe no. \geq B employe no.
group by employe no.

having (count(*) mod n=0)

c) both a & b d) none of the above

21 . type duplicates of a row in a table customer with non uniform key field customer no. you
can see

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a) delete from costomer where customer no. exists (select distinct customer no. from customer having count)

b) delete customer a where customer no. in (select customer b where custermer no. equal to b custemor no.)

and a rowid > b rowid c) delete customer a where custermor no. in (select customer no. from customer a,

customer b) d) none of the above

22. which feature in ANSI C but not in JAVA.??ANS variable arguments.

23. preprocessor does not do one of the following??ANS type checking.

24. long int size a) 4 bytes b) 2 bytes c) compiler dependent d) 8 bytes

ans: compiler dependent

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25. x=2,y=6,z=6 x=y==z; printf("%d",x) ?ANS 1

26. class c : public A,publicB

a) 2 members in class a,b can have member functions with same name.

b) 2 members in class a,c can have member functions with same name. c)both

d)none(ANS)

27. What will be the out put of the following program

```
main() {
```

```
char *p; p=malloc(10); free(p); printf("%d",p);
```

```
}
```

ANS compilation error

28. a=(10,15), b=10,15 what are the values of a & b in ANSI C ANS 15,10 29 main()

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30

```
{  
int x=10,y=15,z=16; x=y=z; printf("%d",x);
```

```
}  
ANS 0
```

f(n) f(x) {

if(x<=0) return;

else f(x-1)+x; }

find the value of fn(5)? ANS 15.

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31 struct {
int det;

struct prevoius; struct new;

```
}  
delete(struct node)
```

```
{ node-prev-next=node-next; node-next-prev=node-prev; if(node==head)node
```

```
}  
one element will be given. ANS::it does not work when rp is the last element in the
```

link list.

32A code will be given which searches a particular char in the string. ANS:: it always works.

33. main()

```
{  
int var =25,varp; varp=&var;
```

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```
varp p=10;  
fnc(varp); printf("%d%d",var,varp);
```

```
}
```

ANS::55,55 (check this out)

34. #define VALUE 1+2 main()

```
{  
printf("%d and %d\n",VALUE/VALUE,VALUE*3);
```

```
}
```

ANS:: 5,7

35What is the value assigned to the variable a if b is 7 a=b>8?b<<2:b>4?b>>1:b; ANS::3

36.the value of the following expr (2^3)+(a^a) is a) 1 b)2 c) 3 d) insufficient data

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37 which of the following is not basic data type ANS char*

38. the declaration of the variable does not result in one of the following ANS allocatrion of the storage space for the

variable.

39. in C parameters are passed by ANS:: value only.

40. 2 variables cannot have the same name if they are ANS:: in the same block.

41.a static funct. say s(),in as file f.c can be invoked from ANS all functs. in f.c after the definitions of s.

42.macros and functions do not differ in the following aspects ANS::variable no of arguments. 43.one q's in which he will give some different forms of STRCPY function you will have to find out which form is

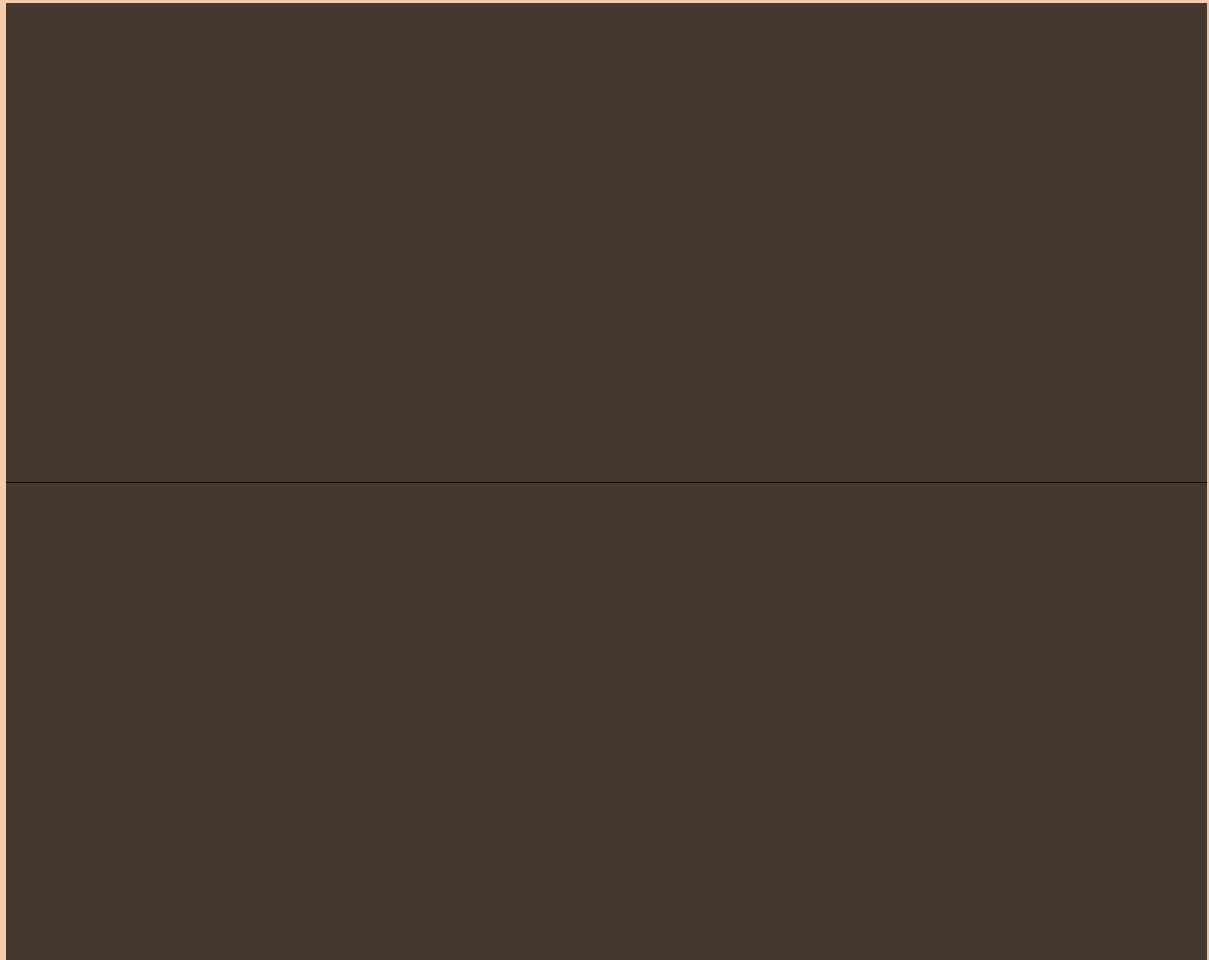
correct.

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