



(1) in a ckt. We r giving voltage of 50 Hz as well as 60. then what will be the resultant frequency.

(a) less than 50 (b) more than 60 (c) in between 50 & 60

(d) none.....according to our conclusion answer will be none because if we apply two frequency component resultant frequency we can not say with such an ease. U should confirm the answer

2. In a ckt a single resistor is connected across a d.c. source, what will be the effect on current in first resistor if we connect one more resistance in parallel with earlier one....

Answer.. no change since it is a parallel combination.

3. why we don't like flashover in transmission line (t-line)-

(a) it may create earth fault (b) it reduces the life of insulator.....

Read something about flashover & puncture.

4. total no of strands in a acsr conductor is 81, then what is the no. of

conductor in its outer layer....(a) 36 (b) 18 (c) 24.....Also read some more on acsr.

5. Two questions based on p.u. calculation like , p.u. calculation is given with respect to some old base and u have to calculate it with reference to new base.

$(\text{new resistance}/\text{old}) = (\text{mva new} / \text{mva old}) * (\text{old voltage}/\text{new voltage})^2$.

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Other question is based upon transfer of p.u calculation in transformer i.e. how base changes when we we move from primary to secondary or like wise.read some more on p.u calculation.

6. which table is referred for sag calculation-

(a) stringing chart.....answer

7. in a R-L ckt a ac voltage is applied , such that instantaneous power is negative for 2ms, then what will be the power factor.

(a) 9 deg, (b) 18 deg, (c) 36 Deg.....(I don't know the correct ans)

8. In an incandescent lamp

(a) luminous intensity is more than non-luminous intensity

(b) ,, ,, ,, less ,, ,,

..

Ans: Since efficiency is less than 100%, hence ans is (b), u should confirm it further.

9. In which motor no-load to full-load diff. is lowest

(a) series motor, (b) shunt motor, (c) Compound motor

Ans: (b)

10. In a 60Hz induction motor full load speed is 850 rpm then what is the

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Synchronous speed. (a) 900 rpm, (b) 950 rpm, (c) 1600 rpm.....Ans: (a)

11. A sync. Motor is running at synch. Speed, if all of sudden D.C. excitation is removed, then

(a) it will rotate at slip speed, (b) it will stop, (c) it will continue to rotate at sync. Speed

Ans: (a), because actually it will act as Induction motor.

12. A transmission line is designed for 50Hz, 440KV. If we want to transfer power at 60Hz, 440 KV, then the power transfer capability will

(a) decrease, (b) Increase, (c) None

Ans: (a) ...as $P = (|V_t| |E_f| \sin(\delta)) / X$, where (δ) is torque angle.

13. Increased rotor resistance in rotor ckt of induction motor is related with

(a) high starting torque, (b) more speed variation,.....Ans:

(a)

14. In the formulae $E = 4.44 f N \hat{O}$, \hat{O} is

(a) Avg value, (b) Rms value, (c) Maximum value.....Ans:

(a)...[confirm it]

15. Voltage & current in a ckt is given by $V = V_1 + j V_2$ and $I = I_1 + j I_2$, then

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rms power is

.....(refer book by Edministrator on NETWORK ..)

16. Input impedance of MOSFET is

(a) more than BJT.....(Ans)

17, 18. Remember truth table of AND, NOR, NAND, OR, EX-OR ETC...

19. Conversion of Binary number into Equivalent decimal No.

20. Megger is used for the measurement of (a) Insulation resistance, (b)

Conductor resistance.....Ans: (a)

21. Form factor for sinusoidal as well as DC

22. Formulae of Regulation $(V_s - V_r) * 100 / V_r$, then transmission line is

(a) short transmission line, (b) long, (c) medium.....Ans: (a)

23. Improvement in power factor reduces

(a) power consumed by consumer, (b) power generation, (c) both a &

b.....Ans: (c)

[Confirm it]

24. Read about field test of Series Motor...

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25. No-load test for Synchronous motor, the graph is drawn

(a) stator open ckt emf Vs field

current.....(Ans: a)

26. An AC voltage of 50Hz is impressed in a resistive ckt, the oscillating power has a frequency (a) 50 Hz, (b) 100, (c) no oscillating power is there in resistive ckt.....Ans: (a)

27. Insulation used in transformer _____ leakage flux.

(a) increases, (b) decreases.....Ans: (b)

28. After rain what happens to Insulator (a) break-down strength of Insulator decreases, (b) Arch length reduces,Ans: (b).....[Confirm it]

29. Diversity factor helps to(what ?)

[Read diversity factor, load factor, Reserve capacity factor in depth, with calculation]

30. Why capacitance is shown as a Shunt element in analysis of transmission line

(a) it is between Conductor & earth, (b) because Admittance is used for calculation of capacitive reactance.....Ans: (a)

31. B-R-Y sequence is followed in three phase system, if phase voltage in

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B-phase is $V_m \sin 100$, then the phase voltage in R-phase would be (a) $V_m \sin (-20)$Ans:(a)

32. In a particular ckt $I = I_m \sin (wt - 270)$ and $V = V_m \sin wt$, then type of ckt is (a) pure resistive ckt.....[Ans]

33. In a L-R ckt energy lost = 2000 W, energy conserved = 500W, then what is the time constant.....Ans: time constant = $L/R = 0.5$

34. In electro-dynamometer A'meter & wattmeter the type of scale is ...Ans:Non-uniform

35. For the same current carrying capacity corona loss of ACSR will be _____ than copper conductor. (a) more, (b) less, (c) equal...Ans:(b)

36. A R-C ckt , supplied with DC, a bulb is connected across the Capacitor, then what happens to the illumination, if we change the capacitance.

Ans: No change at all

37. Read about surge impedance of over-head and under-ground cable, Surge impedance formula = $\sqrt{L/C}$

1.What would be the output of the following program.

```
#include  
main()  
{  
extern int a;  
printf("%d",a);;
```

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```
}
```

```
int a=20;
```

(a) 20 (b) 0 (c) garbage value (d) error!!

2.What would be the output of the following program.

```
main()
```

```
{
```

```
int a[5]={2,3};
```

```
printf("\n %d %d %d",a[2],a[3],a[4]);
```

```
}
```

(a) garbage value (b) 2 3 3 (c) 3 2 2 (d) 0 0 0

3.What would be the output of the following program.

```
main()
```

```
{
```

```
inti=-3,j=2,k=0,m;
```

```
m=++i&&++j|++k;
```

```
printf("\n %d %d %d %d",i,j,k,m);
```

```
}
```

(a) -2 3 0 1 (b) -3 2 0 1 (c) -2 3 1 1 (d) error

4.What would be the output of the following program.

```
main()
```

```
{
```

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```
int a,b;  
a=sumdig(123);  
b=sumdig(123);  
printf("%d %d",a,b);  
}
```

```
sumdig(int n)
```

```
{  
static int s=0;
```

```
int d;
```

```
if(n!=0)
```

```
{
```

```
d=n%10;
```

```
n=(n-d)/10;
```

```
s=s+d;
```

```
sumdig(n);
```

```
}
```

```
else return(s);
```

```
}
```

(a) 12 6 (b) 6 12 (c) 3 15 (d) error

5. What would be the output of the following program.

```
#define CUBE(x) (x*x*x)
```

```
main()
```

```
{
```

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

(a) 64 4 (b) 27 4 (c) 27 6 (d) 64 6

6.What would be the output of the following program.

```
main()
{
const int x=get();
printf("%d",x);
}
get()
{
return(20);
}
```

(a) 20 (b) garbage value (c) error (d) 0

7.A function has this prototype void f1(int **x),

How will you call this function?

(a) int **a; (b) int a; (c) int *a; (d) int a=5;

f1(a); f1(&a); f1(&a); f1(&&a);

8.pointout the error, if any, in the for loop

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```
main()
{
int l=1;
for(;;)
{
printf("%d",l++);
if(l>10)
break;
}
}
```

- (a) The condition in the for loop is a must (b) The two semicolons should be dropped
(c) The for loop should be replaced by a while loop (d) No error

9. Can the following piece of code be executed?

```
int main(void)
{
char strA[10]="compile",strB[10];
my_strcpy(strB,strA);
puts(strB);
}
char * my_strcpy(char *destination,char *source)
{
char *p=destination;
while(*source!='\0')
```

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```
{  
*p++=*source++;  
}  
*p='\0';  
return destination;  
}
```

- (a) Compilation will only give a warning but will proceed to execute & will display "compile"
(b) The compilation error char *(char *,char *) differs in levels of indirection from 'int()' will

occur

- (c) Yes & it will print compile on the screen (d) None of the above

10.What would be the output of the following program.

```
#include  
main()  
{  
char str[5]="fast";  
static char *ptr_to_array = str;  
printf("%s",ptr_to_array);  
}
```

- (a) Compilation will only give a warning but will proceed to execute & will display "fast"
(b) display "fast" on screen (c) will give a compilation error (d) none of the above



11. What would be the output of the following program.

```
main()
{
int num,*p;
num=5;
p=&num;
printf("%d",*p);
}
```

(a) 6 (b) 5 (c) junk value (d) compilation error

12. What would be the output of the following program.

```
main()
{
int a[3]={2,3,4};
char *p;
p=a;
p=(char*)((int*)p+1);
printf("%d",p);
}
```

(a) 2 (b) 0 (c) junk value (d) 3

13. What would be the output of the following program.

```
main()
{
```

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```
int i=10;
fn(i);
printf("%d",i);
}
fn(int i)
{
return ++i;
}
```

(a) 10 (b) 11 (c) 12 (d) Compilation error

14. What will be the value of i & j after the loop is executed?

```
for(i=0,j=0;i<5,j<25;i++,j++)
```

(a) i=4,j= 24 (b) i=24,j= 24 (c) i=25,j= 25 (d) i=5,j=25

15. What would be the output of the following program.

```
main()
{
int i,j;
i=10;
j=sizeof(++i);
printf("%d",i);
}
```

(a) 11 (b) 10 (c) 4 (d) compilation error



16. What would be the output of the following program.

```
main()
{
int i=7;
printf("%d\n",i++*i++);
}
```

(a) 49 (b) 56 (c) 72 (d) compilation error

17. What will the printf print?

```
main()
{
char *p,*f();
p=f();
printf("f() returns:%s\n",p);
}
char *f()
{
char result[80];
strcpy(result,"anything will do");
return (result);
}
```

(a) f() returns: anything will do (b) f() returns:

(c) compilation error (d) The printf statement is not going to be executed



18. How many times the following program would print 'Jamboree'?

```
main()
{
printf("\n Jamboree");
main();
}
```

- (a) infinite number of times (b) 32767 times
(c) 65535 times (d) till the stack does not overflow

19. Notice the error in the default statement in the code snippet below. Will it give a compilation

```
error?
main()
{
int a=10,j;
j=fn(a);
switch(j)
{
case 30: printf("the value is 30");
break;
case 50: printf("the value is 50");
break;
default:printf("the value is not 30 or 50");
}
```

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```
}  
fn(int a)  
{  
return (++a);  
}
```

- (a) Will display "the value is 30" (b) Will display "The value is not 30 or 50"
(c) Yes a compilation error would happen
(d) No compilation errors but there will be no output on the screen

20. What would be the output of the following program.

```
main()  
{  
struct emp  
{  
char name[20];  
int age;  
float sal;  
};  
struct emp e = {"tiger"};  
printf("\n %d %f", e.age, e.sal);  
}
```

- (a) 0 0.000000 (b) Garbage values (c) Error (d) none of the above

what is the flip flop

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which type of architecture 8085 has? what major and minor difference of 8086&8085

what is different between IP55,IP54 and IP66?

What makes the difference between 50Hz supply and 60Hz supply which one is economical? What is the

use of using increased frequency?

when is the OHMS LAW IS APPLICABLE?

What is Grounding? any difference b/w earthing? if yes plz explain??

what is the procedure for three phase motor differential relay testing can it do with single phase

test kit?

What is the difference when selecting a cable between AC and DC current?

During a temperature rise test of a bus duct, it is fed with 415 volts at 2000 amperes. Why dont we

get an electric shock if we touch the bus bars?

what is meant by insulation voltage in cables? explain it?

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What is the difference between real power and reactive power..which is useful..?and how it is

useful..what is the effect of these on a power system...

How to connect frequency meter in metering circuit?(single phase and three phase frequency

meter)phase to phase or phase to neutral

Why transformer is connected to dc for polarity test.it doesn't work in dc?

What is diversity factor?

1. What is the power factor and what are its losses 2. What is the working procedure of 51RNB AND 87

relay

How much loading in terms of ampere can be put on 5 MVA,33/11 KV TRANSFORMER having rated current 263

Amp ??????????

Tell 2 reasons for why only copper is used in domestic wires& only aluminium in transmission lines

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?

in which welding process liquid metal is poured?

Why three wire is using with a RTD?

What is the Custom Error in ASP.NET?

which technique servo motor tested o.k or faulty ?

why we are used D.c. voltage in L.T.side or controlling side.we can use UPS also ,in place d.c.

voltage

I have a transformer whose primary operates at 230V, 50Hz for which the secondary voltage will be

12V, 50Hz. What will be the secondary voltage if the primary is fed with 400V, 8KHZ Signal?

What is power factor ?What are the benefits of improved power factor & how. Please explain with examples.?

if we convert kw into Ampers,which one formula use by us,pls tell me?

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if we convert watt into kva,which one formula use by us,pls tell me?

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