what is the difference between RTU & MTU in SCADA system?

write a c program to change only the 3rd bit of the particular number such that other bits are not affected.. if bitnum=10

explain cooling and its types ?

What is the default value of CHAR type?

what is difference between IRQ and FRQ ?

In Scripts,if we forgot to give the Elements Parameter in the Functional Module Write_form,then what will happen?

what do u mean by Semaphore..when v wil go for using this..explain about hat.what is the difference betw..binary ,,counting and mutex semphores

write a query to select name from one table which has id,name and salary from another table which has id, sal where the salary is the second maximum

how to prevent finally block from execution

What are difference between KVA & KW.

WHAT ARE THE STEPS FOR SERVICING A DIESEL ENGINE? EG. 12 CYINDER ENGINE

what is the frequency of impulse signal?

pulse period of two signals are 5ns,10ns .which will give high frequncy component?

what is the default value of CHAR type?in C# using asp.net?

What is Deep structure and Flat structure?

Difference Between embedded software and soft ware?

Withou using SLIN transaction how would you check custom programs?

Wats the difference between package and devolopment class??

How would you debug custom programs at runtime?

How to make a class immutable?

How to define PROJECT in CMOD?

how to retrieve sql exceptions

how do you store phone numbers using java collections

what is a round trip?What is a postback?

what are the oops concept in java explain with real time examples

What is difference b/w Data Grid in ASP.Net 1.1 and Gridview in 2.0

write a program to swap bits in a character and return the value prototype of function char fun (char a, charb flag c) where fun returns a char, char a is a the value char b is the bit to be changed and flag c is the bit value for eg: x=fun(45,7,0) since 45 is 0010 0101 and ow x should contain the value 65 (0110 0101)

what do you mean by 1 ton in AC`s

What is your role in implementation project?

how margnial costing is used in manufacturing sectors, what is the method/steps for using marginal costing

Can you draw and explain the .NET Farmework?

What is the Difference between Macro and ordinary definition?

Can we sell the same material from two different divisions.

1. Critical stress at which material will start to flow

(a)yield

(b)ultimate tensile stress

(c) proof stress

(d) none o the above

2. maximum degree of freedom in space

Ans. 6

3. bearing which will take axial and radial loads.

(a) thrust bearing

(b) deep groove

(c) taper roller

(d) roller

4. volume of water per cubic meter of air.

(a)specific volume

(b) specific gravity

(c) vapour pressure

(d) none of above

5. fluid is flowing through a frustum of cone. what is the nature of graph of velocity Vs. c/s area. {flow = velocity X c/s area}

(a) parabola

(b) hyperbola

(c) y=mx+c

(d) x=x.

6. Fluid in a pipe having no change in profile with change in length of pipe ...explain type of flow.

a)Laminar

b)Turbulent

c)fully developed profile

d)steady flow

7. Which are correct

I) Navier Stokes Eq. is .... of momentum

conservation eq.

II)bernoulis eq. is for viscous flow

III) REYNOLD no. >3000 always for turbulent flow.

a)I and II correct

b)I and II not correct

c)II and III correct

d)II and III not correct

8. Which can't be removed during alloying from Fe

alloys

a) co

b) N

c) Si

d) As

9.There are two ropes burning non uniformly (rate) and clock half an hour each. which can't be clocked ?

a) 1 Hr.

b) 45 min

c)15 min

d)none

10. Lim n->0 (1+ 1/n)^n =

a) 1

b)0

c)e

d)infinity

11.time dependent increase in length at steady temp. is called

a) super plasticity

b) creep

c) fatigue

d) none

12. Viscosity change with increasing temp.

a) decreases

b) increases

c) same

d) first decreases and then increases.

13. Direction of friction in bicycle tyres

a) along motion

b) opp. motion

c) Front opp. motion and vice versa

d) rear opp. motion and vice versa

14. Sp. gravity of a fluid

a) density of fluid at 0`c / density of water at o`c.

b) density of fluid at 0`c / density of water at T`c.

c) density of fluid at T`c / density of water at o`c.

d) density of fluid at T`c / density of water at T`c.

15. lateral strain / longitudinal strain

a) Poission's Ratio

b) Bulk Modulus

c) Modulus Of Elasticity

d) None

16. 10 coins & 1 defected coin and 2 weighs Find min weighs req. to detect faulty coin

a) 2

b)3

c)4

d)5

17. 9 members in meeting scheduled at 10:00 A.M. , all reaches at 9:48 A.M. . one member req. 2 min to intro with other find meeting delay with scheduled time of 10:00 A.M..

a) 1 Hr.

b) 6 min

c) ...

d) At scheduled time

18. A completes job in 10 hr. and B completes in 15 hr.. Find when both together works

a) 6 hr.

b) 8 hr

c) 10 hr

d) none

19. A ball dropped from H height and moves 80% of height each time. Total dist. covered

a) 4H

b) 5H

c) 7H

d) 9H

20. A cantilever beam loaded at free end find reinforcement place

a) AT neutral axis

b) above neutral axis

c) below neutral axis

d) above and below neutral axis

21. punching a sheet of D diameter and T thickness and S ultimate tensile stress

a) 3.14 DTS

b) 3.14TS X D^2

c) 6.28 DTS

d)6.28 TS x D^2

1. There was a figure of JK flip flop in which ~q is connected to J input and K=1. If clock signal is successively applied 6 times what is output sequence (q=?)

d) 010101

2. The relationship b/w Gain & Bandwidth?

a) Independent of each other

b) Gain decreases as bandwidth decreases

c) Gain increases as bandwidth increases till some extent after which stability decreases

3. In "ON CHIP" decoding memory can be decoded to

a) 2^n b)2^n +1 c)2^n -1 d) some other choice Ans: a

4. Half of address 0Xffffffff is

a) 77777777 b) 80000000 c) 7FFFFFFF d) some other choice

5. For a 4 bit succe D/A with 16v o/p the resolution is

a)10v b)1v c)1.6v d)16v Ans : b

6. A 20kva transformer at full load conditions have the coreless & cu loss are 250w&300w,To get max efficiency what will be the total loss in tr in w

a) 550 b) 500 c) 600 d) Data insufficient Ans : b

7. There was a circuit consisting of AC voltage source and one inductance. Inductance value=0.2mH AC voltage =150 sin (1000t).what is the current flowing in the circuit?

a) b) c) d)

8. Power gain of an amplifier having i/p gain of 20W and output gain of 20mW is

a) 60 b) 25 c) 10 d) 0

9. There was a RC circuit given with AC voltage source. Expression for capacitance was asked for charging condition. Choices were somewhat like this: a) some value multiplied by exp (-t/T)

ans –c i= (Vs/R)exp(-t/ T)

10.SCR s are connected in series to get

a) high current rating b) voltage regulation c) high v rating d)some other

Ans: c

11. Which one of the following is used for high speed power application?

a) BJT b) MOSFET c) IGBT d) TRIAC

12. One question related with SCR timing dia

13. SCR is used for

a) To achieve optimum (or maximum …not sure) dv/dt

b) For high current ratings

c) To achieve high voltage

d) Some other choice

14. State in which o/p collector current of transistor remains constant in spite of increase in base current is

a) Q point b) Saturation c) Cut off

15. what is the resonant frequency of parrel RLC circuit of R= 4.7 komh L= 2 micro Henry and c=30pf.

a). 20.5 MHz

b). 2.65 KHz

c). 20.5 KHz

d). none

16.for the parallel circuit (one figure is given) Is= 10mA. R1= 2R, R2=3R, R3= 4R. R is artritary

a). 3.076mA

b). 3.76mA

17 . Two ques on control sys like the sys will be stable when the roots are

a) real & +ve b) real & -ve c) d)

18. The ques on Niquest plot

19. 0ne ques on root locus

20. One more question related with ADC like voltage is 8 volts. freqency 2 Mega hz. what is the converssion rate

21. Question related with serial in parallel out shift register…What is output sequence?

Ans 1010

21. Given one RLC circuit in which values of R, L and C were given. What is the value of frequency f?

22. #define A 10+10

main ()

{

int a;

a=A*A;

printf ("%d", a);

}

a) 100 b) 200 c) 120 d) 400

ans : c

23.. main(){

int n=0;

while(n>32767)

pf("%d",n);

n++

}

ans ; indefinite loop here ihe loop will continue again & again ie after 32767 the go to -32768

24.. if (fun ())

{

X++;

}

X gets incremented if and only if

a) fun () returns 0

b) fun () return 1

c) fun () return -1

d) return a value other than 0 ans ; d

25.. In dynamic memory

a) Power dissipation is less than that of static memory

b) Clock is needed

c) Refreshing is required

d) All the above

26. Short, int and long integers have how many bytes?

a)2,2,4 b) Machine dependant c)2,4,8 d) Some other choice ans : b

27. A (n) is ———–filter combination of

a) Passive b) Active c) AMPLIFIER d) BOOSTER

28. according to ohms law the current density is proportional to

a) current b) di/ds c) applied emf d)

29. Two more question on gravity ie body is projected then find the time of fall and some physics ques

30. Structure comparison is done

a). yes

b) no

c) compiler dependent

d)

31. The system in which communication occurs in both ways but not simultaneously in both ways is

a) Half simplex b) Simplex c) Half duplex d) duplex

32. main ()

{

int a=5, b=6;

int i=0;

i=a>b? a:b;

printf ("%d", i);

}

a) 0 b) 1 c) 6 d)5

33. int fun (char c)

{

int i;

static int y ;}

a) c, i are stored in stack and y stored in data segment

b)c stored in stack and i,y are stored in data segment

c) c is stored in text segment, y in data and i in stack

34. how would you insert pre-written code into a current program?

a) #read

b) #get

c) #include

d) #pre ans: c

35.structure may contain

a) any other structure

b) any other structure expect themselves

c) any other structure except themselves and pointed to themselves

d) none of the above

36. One ques from pointer declaration

Section II (Aptitude)

37. If a>4,b<-1 then which of the following is true

a)2a+b<0 b) 4a<3b c) a>4b d) some oth

38. In a class out of 150 studs participated in various games foot ball ,basket ball, cricket are 120, 130,135 respecly and 5 stud are not playing any one of then then find the least no of studs which are are playing all the games

a)110 b)100 c) 96 Ans a

39.. 20 men can do a work in c/2 days & 30 women can do the same work in c/3 days then how many days will take to complete the work when 20 men &30wmen work together

a)5c/6 b)c/6 c) 6c/5

40. find the lateral surface of a cone with diameter of base 12feet . and the latent height is 24feet

a) 1320square f.

b) 260 square f.

c) 96 square f.

d) none

ans : c

41. Ann is shorter than Jill and Jill is taller than Tom. Which of the following inferences are true

a) Ann is taller than Tom b) c) d) Data insufficient ans : d

42. Sum of squares of two numbers is 404 and sum of two numbers is 22.Then product of two Numbers?

a) 20 b) 40 c) d) (Answer is 40. Two numbers are 20 and 2)

43. (10 | 7) would produce

a). 17

b). 3

c). 11

d). 15