

Model Sonata Software Placement Test Questions

Q1. Full form of TTL and CMOS

Q2. Which is a good conductor (Extrinsic or Intrinsic)

Q3. What are the different types of capacitors (Electrolytic, dielectric...etc)

Q4. Select a passive component from the following (four choices were there)

Q5. Minimum no. of lines required for communication using RS232

ANS: 2

Q6. To convert 1s complement to 2s complement and vice versa

Q7. During which time we use size of command.

ANS: runtime

Q8. Out of four choice we have to identify which is a macro.

Q9. There was one pointer _expression related question.

Q10. To find post fix _expression.

Q11. What type of operating system is unix (ans: pre-emptive,[not sure])

- a) pre-emptive
- b) non-preemptive

Model Sonata Software Placement Test Questions

c) batch

Q12. Definition of turing machine.

Q13. Where we use DFD(Data flow design)

- a) structural languages
- b) object oriented languages
- c) UML
- d) all of the above

Q14. Name the error which occurs when we write on a page

- a) segment fault
- b) permission fault
- c) page fault

Q15. A question based on the representation of an array in C. An array whose elements are function pointers which returns a character

Q16. Point out error, if any, in the following program

```
main()
{ int i=1; switch(i)
{ case 1: printf(" Radioactive cats have 18 half-lives");
break;
case 1*2+4:
printf(" Bottle for rent -inquire within"); break; }
```

ANS: No error. Constant expression like $1*2+4$ are acceptable in cases of a switch.

Q17. Point out the error, if any, in the following program main()

```
{ int a=10,b; a>= 5 ? b=100 : b=200; printf(" %d",b); }
```

Model Sonata Software Placement Test Questions

ANS: lvalue required in function main(). The second assignment should be

written in parenthesis as follows:

`a >= 5 ? b=100 : (b=200);`

Q18. In the following code, in which order the functions would be called?

`a= f1(23,14)*f2(12/4)+f3();`

a) f1, f2, f3

b) f3, f2, f1

c) The order may vary from compiler to compiler

d) None of the above

Q19. What would be the output of the following program?

```
main()
{ int i=4; switch(i)
{ default:
printf(" A mouse is an elephant built by the Japanese");
case 1:
printf(" Breeding rabbits is a hair raising experience");
break;
case 2:
printf(" Friction is a drag");
break;
case 3:
printf(" If practice make perfect, then nobodys perfect"); }
```

a) A mouse is an elephant built by the Japanese

b) Breeding rabbits is a hare raising experience

c) All of the above

d) None of the above

Model Sonata Software Placement Test Questions

Q20. What is the output of the following program?

```
#define SQR(x) (x*x)
main()
{ int a,b=3; a= SQR(b+2); printf("%d",a); }
```

- a) 25
- b) 11
- c) error
- d) garbage value

Q21. In which line of the following, an error would be reported?

```
1. #define CIRCUM(R) (3.14*R*R);
2. main()
3. {
4. float r=1.0,c;
5. c= CIRCUM(r);
6. printf(" %f",c);
7. if(CIRCUM(r)==6.28)
8. printf(" Gobbledygook");
9. }
```

- a) line 1
- b) line 5
- c) line 6
- d) line 7

Q22. What is the type of the variable b in the following declaration?

```
#define FLOATPTR float*

FLOATPTR a,b;
```

- a) float

Model Sonata Software Placement Test Questions

- b) float pointer
- c) int
- d) int pointer

Q23. In the following code;

```
#include
```

```
main()
```

```
{ FILE *fp; fp= fopen("trial","r"); }
```

fp points to:

- a) The first character in the file.
- b) A structure which contains a "char" pointer which points to the first character in the file.
- c) The name of the file.
- d) None of the above.

Q24. We should not read after a write to a file without an intervening call

to fflush(), fseek() or rewind()

< TRUE/FALSE>

ANS: True

Q25. If the program (myprog) is run from the command line as myprog 1 2 3