

2011 R Systems Placement Paper - II:-

Q1.

```
main()
{
int i;
clrscr();
printf("%d", &i)+1;
scanf("%d", i)-1;
}
```

- a. Runtime error.
- b. Runtime error. Access violation.
- c. Compile error. Illegal syntax
- d. None of the above

Ans: d, printf () prints address/garbage of i, scanf() dont hav & sign, so scans address for i +1, -1 dont hav any effect on code

Q2.

```
main(int argc, char *argv[])
{
(main && argc) ? main(argc-1, NULL) : return 0;
}
```

- a. Runtime error.
- b. Compile error. Illegal syntax
- c. Gets into Infinite loop
- d. None of the above

Ans: b) illegal syntax for using return

Q3.

```
main()
{
int i;
float *pf;
pf = (float *)&i;
*pf = 100.00;
printf("\n %d", i);
}
```

- a. Runtime error.
- b. 100
- c. Some Integer not 100
- d. None of the above

Ans: d) 0

Q4.

```
main()
{
int i = 0xff ;
printf("\n%d", i<<2);
}
```

- a. 4
- b. 512
- c. 1020
- d. 1024

Ans: c) 1020

Q5.

```
#define SQR(x) x * x
```

```
main()
{
printf("%d", 225/SQR(15));
}
```

- a. 1
- b. 225
- c. 15
- d. none of the above

Ans: b) 225

Q6.

```
union u
{
struct st
{
int i : 4;
int j : 4;
int k : 4;
int l;
}st;
int i;
}u;
```

```
main()
```

```

{
u.i = 100;
printf("%d, %d, %d",u.i, u.st.i, u.st.l);
}

```

- a. 4, 4, 0
- b. 0, 0, 0
- c. 100, 4, 0
- d. 40, 4, 0

Ans: c) 100, 4, 0

Q7.

union u

```

{
union u
{
int i;
int j;
}a[10];
int b[10];
}u;

```

main()

```

{
printf("\n%d", sizeof(u));
printf(" %d", sizeof(u.a));
// printf("%d", sizeof(u.a[4].i));
}

```

- a. 4, 4, 4
- b. 40, 4, 4
- c. 1, 100, 1
- d. 40 400 4

Ans: 20, 200, error for 3rd printf

Q8.

main()

```

{
int (*functable[2])(char *format, ...) ={printf, scanf};
int i = 100;

```

```

(*functable[0])("%d", i);
(*functable[1])("%d", i);
(*functable[1])("%d", i);
(*functable[0])("%d", &i);

```

```
}
```

- a. 100, Runtime error.
- b. 100, Random number, Random number, Random number.
- c. Compile error
- d. 100, Random number

Q9.

```
main()
{
int i, j, *p;
i = 25;
j = 100;
p = &i; // Address of i is assigned to pointer p
printf("%f", i/(*p) ); // i is divided by pointer p
}
```

- a. Runtime error.
- b. 1.00000
- c. Compile error
- d. 0.00000

Ans: c) Error becoz $i/(*p)$ is $25/25$ i.e 1 which is int & printed as a float, So abnormal program termination, runs if (float) $i/(*p)$ -----> Type Casting

10.

```
main()
{
char c;
int i = 456;
clrscr();
c = i;
printf("%d", c);
}
```

- a. 456
- b. -456
- c. random number
- d. none of the above

Ans: d) -56

11. men or 8 women do equal amount of work in a day. a job requires 3 men and 5 women to finish the job in 10 days how many woman are required to finish the job in 14 days.

- a) 10

- b) 7
- c) 6
- d) 12

Ans 7

12. A simple interest amount of rs 5000 for six month is rs 200. what is the anual rate of interest?

- a) 10%
- b) 6%
- c) 8%
- d) 9%

Ans 8%

13. In objective test a correct ans score 4 marks and on a wrong ans 2 marks are ---. a student score 480 marks from 150 question. how many ans were correct?

- a) 120
- b) 130
- c) 110
- d) 150

Ans130.

14. An artical sold at amount of 50% the net sale price is rs 425 .what is the list price of the artical?

- a) 500
- b) 488
- c) 480
- d) 510

Ans 500

15. You are creating a Index on EMPNO column in the EMPLOYEE table. Which statement will you use?

- a) CREATE INdEX emp_empno_idx ON employee, empno;
- b) CREATE INdEX emp_empno_idx FOR employee, empno;
- c) CREATE INdEX emp_empno_idx ON employee(empno);
- d) CREATE emp_empno_idx INdEX ON employee(empno);

Ans. c

16. Which program construct must return a value?

- a) Package
- b) Function
- c) Anonymous block
- d) Stored Procedure

e) Application Procedure

Ans. b

17. In 1978, a kg of paper was sold at Rs25/-. If the paper rate increases at 1.5% more than the inflation rate which is 6.5% a year, then what will be the cost of a kg of paper after 2 years?

- (a) 29.12
- (b) 29.72
- (c) 30.12
- (d) 32.65
- (e) none of these

18. If x, y, z are the marbles initially with A, B, C respectively.

Then the number of marbles B have at the end

- (a) $2(x-y-z)$
- (b) $4(x-y-z)$
- (c) $2(3y-x-z)$
- (d) $x + y-z$

Ans. (c)

19. If the total number of marbles are 72, then the number of marbles with A at the starting

- (a) 20
- (b) 30
- (c) 32
- (d) 39

Ans. (d)

20. What is the product of the irrational roots of the equation $(2x-1)(2x-3)(2x-5)(2x-7)=9$?

- (a) $3/2$
- (b) 4
- (c) 3
- (d) $3/4$

Ans. (a)

21. Which of the following parameters is the same for molecules of all gases at a given temperature?

- (a) Mass
- (b) Momentum
- (c) Speed
- (d) Kinetic energy

Ans. (d)

22. A solid is completely immersed in liquid. The force exerted by the liquid on the solid will

- (a) Increase if it is pushed deeper inside the liquid
- (b) Change if its orientation is changed
- (c) Decrease if it is taken partially out of the liquid
- (d) None of the above

Ans. (c)

23. Select the correct statements

- (a) A simple harmonic motion is necessarily periodic
- (b) An oscillatory motion is necessarily periodic
- (c) A periodic motion is necessarily oscillatory
- (d) All of the above

Ans. (a)

24. An electron is injected into a region of uniform magnetic flux density with the components of velocity parallel to and normal to the flux. What is the path of the electron?

- (a) Helix
- (b) Parabola
- (c) Circle
- (d) Rectangle

Ans. (a)

25. A constant voltage is applied between the 2 ends of a uniform metallic wire. Some heat is developed in it. The heat developed is doubled if

- (a) both the length and radius of the wire are halved.
- (b) both the length and radius of the wire are doubled
- (c) the radius of the wire is doubled
- (d) the length of the wire is doubled

Ans. (b)