

1. For the following code how much memory is reserved

union example

float a;

char b;

JX;

(a) 2 bytes

(b) 4 bytes

(c) 1 byte

(d) 8 bytes

2. struct is

(a) an identifier

(b) constant

(c) keyword

(d) user-defined variable

3. Structure members are accessed by using

(a) dot operator

(b) index

(c) subscript

(d) directly we can access

4. Structure is a collection of

(a) similar data items

(b) dissimilar data items

(c) it may be similar or dissimilar data items

(d) special characters

5. For the following code, how much memory is allocated?

struct example

int a;

float b;

char c;

};

(a) 4 bytes

(b) 7 bytes

(c) No allocation

(d) 8 bytes

6. AB is valid if

(a) A and B are variables of the same structure type

(b) A and B are variables of the different structure type

(c) Both (a) and (b) are true

(d) Error

7. Structure tag is a

(a) an identifier

(b) structure variable

(c) structure name

(d) keyword

8. For the following code, how much memory is allocated?

struct example

```
{  
int a;  
float b;  
char c;  
}X;
```

(a) 4 bytes

(b) 7 bytes

(c) No allocation

(d) 8 bytes

9. While accessing the structure members, left side of dot operator must be

(a) structure variable

(b) structure pointer

(c) keyword struct

(d) index value

10. What will be output of the following?

struct sample

```
{  
unsigned int rollno:12;  
char name[2]:16;  
unsigned int age:12; }X;  
cout<<X.rollno<<X.  
name<<X.age;
```

(a) Bit field must have integral type

(b) 12 16 12

(c) Bit field is too large

(d) Nothing

11. What will be output of the following?

```
struct sample {  
    unsigned int rollno:12;  
    char name:10;  
    unsigned int age:12;  
}X;
```

if

```
X.rollno=102;
```

```
X.name='A';X.age=24;
```

```
cout<<X.rollno<<x.
```

```
name<<X.age;
```

(a) Bit field must have integral type

(b) 12 16 12

(c) Bit field is too large

(d) 102 A 24

12. What will be output of the following?

```
struct
```

```
{
```

```
int rollno;
```

```
char name [10];
```

```
int age;
```

```
}X;
```

```
if X.rollno=102; X.name=
```

```
"Amar";X.age=24; cout<<X.rollno<<x.
```

```
name<<X.age;
```

(a) Error since structure tag is missing

(b) Incorrect variable declaration

(c) 102 Amar 24

(d) Both (a) and (b)

13. Find the error if any

struct

{

int rollno;

char name [10];

int age;

}X, Y, Z;

- (a) Error since structure tag is missing
- (b) Cannot declare more than one variable in this fashion
- (c) Correct declaration
- (d) Cannot use array within structure