

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

Ans. b

2. struct is

(a) an identifier

(b) constant

(c) keyword

(d) user-defined variable

Ans. c

3. Structure members are accessed by using

(a) dot operator

(b) index

(c) subscript

(d) directly we can access

Ans. a

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

Ans. c

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

Ans. c

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

Ans. a

7. Structure tag is a

(a) an identifier

(b) structure variable

(c) structure name

(d) keyword

Ans. c

8. 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

Ans. b

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

Ans. a

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

Ans. a

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

Ans. c

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)

Ans. c

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

Ans. c