1.

```
#include <stdio.h>
struct course
{
	int capacity;
	char coursename[10];
};
int main (void)
{
	struct course arr[] = { {240, "DAC Pune"},
				{120, "KDAC Karad"},
				{60, "DBDA"},{120, "DESD"},
				{120, "DMC"},{60, "DITISS"}};
	return 0;
}
```

How to display the capacity of the DITISS course ?

A. (arr+5)->capacity
B. arr[5].capacity
C. both A and B
D. *(arr+5)->capacity
Answer : C

2.

```
#include <stdio.h>
struct student
{
	int rollNum: 5;
	char grade;
};
int main( void )
{
	struct student st;

	printf("Address of st.rollNum is %d", &st.rollNum);
	printf("Address of st.grade is %c", &st.grade);

	return 0;
}
```

A. prints the same address of st.rollNum and st.grade
B. prints the different addresses of st.rollNum and st.grade
C. Compile time error
D. Run time error

Answer: C

3.

```
#include <stdio.h>
struct test
{
	int capacity;
	char *course;
	}st[]={ 220, "DAC Pune",
		120, "KDAC Karad ",
		60, "DBDA",
		120, "DESD",
		120, "DMC",
		60, "DITISS"};

int main (void)
{
	typedef struct test TEST;
	TEST *p = st;

	p += 1;
	++p -> course;
	printf(" %s", p++ -> course);

	return 0;
}
```

A. DAC Pune
B. KDAC Karad
C. DAC Karad
D. DAC Pune

Answer: C

4.

select correct way of declaration of nested structure?

A.
```
struct Institute
{
    int institute_id;
    char name[10];
    struct Course
    {
        int capacity;
        char *course;
    }CourseName;
};
```

B.
```
struct Course
{
    int capacity;
    char *course;
};
struct Institute
{
    int institute_id;    char name[10];
    struct Course CourseName;
};
```

C.
```
struct Institute
{
    int institute_id;
    char name[10];
    struct Course CourseName;
};
struct Course
{
    int capacity;        char *course;
};
```

D. Both A and B

Answer: D

5.

```
#include<stdio.h>
#pragma pack(1)
struct s2
{
	char *cp;
	struct s1
	{
		char a[4];
		char *p;
	}o1;
}s;
int main()
{
	printf("\n size of s= %d", sizeof(s));
	return 0;
}
// note consider 64 bit operating system
```

A. 20
B. 12
C. 16
D. 24

Answer: A