1.

What will be the output of the following:

```
#include <stdio.h>
struct test
{
	int capacity;
	char *course;
}st[]={240,"DAC Pune",
	60," DITISS ",
	120," KDAC Karad",
	60," DBDA",
	60,"DESD",
	120,"DMC" };

int main (void)
{
	struct test *p = st;
	p += 1;
	++p -> course;

	printf(" %s,", p++ -> course);
	printf(" %c,", *++p -> course);
	printf(" %d,", p[0].capacity);
	printf(" %s \n", p -> course);

	return 0;
}
```

A. KDAC Karad , D, 60, DBDA
B. DITISS , K, 120, KDAC Karad
C. DAC Pune , K, 120, DAC
D. KDAC , K , 120, DAC KARAD
E. Error

Answer: B

2.

What will be the output of the following:

```
#include <stdio.h>
#define MAX 6
#define CAPACITY MAX*10

struct course
{
	int capacity;
	char coursename[15];
};

int main (void)
{
	struct course arr[] = { {CAPACITY*4, "DAC Pune"},
				{CAPACITY*2, "KDAC Karad"},
				{CAPACITY, "DBDA"},{CAPACITY, "DESD"},
				{CAPACITY*2, "DMC"},{CAPACITY, "DITISS"}
				};

	printf("%d, %d , %d",arr[-1+MAX].capacity,
				(( MAX-1 + arr))->capacity,
				(*( arr -1+ MAX)).capacity);

	return 0;
}
```

A. 60, ASCII value of D 60
B. 60, 60, 60
C. 120, ASCII value of D, 120
D. 60 , ASCII value of D, 60
E. 60, 120, 60

Answer: B

3.

What will be the output of the following:

```
#include<stdio.h>
int main(void)
{
	struct s
	{
		char *p;
		int i;
		struct s *sp;

	}a[] = {"DITISS",1,a+1,
		"DBDA",2,a+2,
		"DESD",3,a}, *p=NULL;

	p = a;

	printf("%s %s %s\n",a[0].p,p->p,a[2].sp->p);

	return 0;
}
```

A. DITISS DITISS DBDA
B. DITISS DBDA DESD
C. DITISS DITISS DBDA
D. DITISS DITISS DITISS
E. Error

Answer: D

4.

What will be the output of the following:

```
#include <stdio.h>
struct emp
{
	int empno;
	char name[10];
	float sal;
	char desg:8;
};
int main( void )
{
	static struct emp e1;

	printf("Address of e1.desg is %u", &e1.desg);

	printf("Address of e1.sal is %u", &e1.sal);

	return 0;
}
```

A. prints the same address of e1.desg and e1.sal
B. prints the different addresses of e1.desg and e1.sal
C. Compile time error
D. Run time error
E. prints the address 0 as structure variable is static

Answer: C

5.

What will be the output of the following:

```
#include <stdio.h>
int main(void)
{
	struct test1
	{
		char name[15];
		char *ptr;
	};
	struct test2
	{
		char *c ;
		struct test1 t1 ;
	};
	struct test2 t2 = {"Pune","Hinjawadi","Karad"};

	printf("%s%s\n",t2.c,t2.t1.ptr);

	printf("%s%s\n",++t2.c,++t2.t1.ptr);
	return 0;
}
```

A.PuneKarad
unearad

B.PuneKarad
PuneKarad

C.PuneKarad
Garbage

D.Compile time Error

E. KaradPune
aradune

Answer: A