1.
```c
#include<stdio.h>
union
{
    short i;
    char c;
}u;
int main(void)
{
    u.c = 'D';
    u.i = 0x0041;
    printf("%d %c",sizeof(u),u.c);
    return 0;
}
```

A. 2 A
B. 2 D
C. 3 A
D. 3 D

Answer: A

2.
```c
#include<stdio.h>
#pragma pack(1)
struct
{
    char ca[10];
    union u
    {
        int i;
        char c;
        double l;
    }u1;
}s1;
int main(void)
{
    printf("%d", sizeof(s1) + sizeof(s1.u1));
    return 0;
}
```

A. 20
B. 18
C. 23
D. 26

Answer: D

3.

```
#include<stdio.h>
#pragma pack(1)
struct test
{
	struct test *prev;
	char data;
	struct test *next;
};
int main(void)
{
	printf("\n size of node=%d", sizeof(struct test));

	return 0;
}
```

what will be size of struct test node? Note: consider 64 bit compiler

A. 12
B. 20
C. 9
D. 17

Answer: D

4.
if sunbeam.txt file contents [sunbeam] data in file what will be output ?

```
#include <stdio.h>
int main(void)
{
	FILE *fpRead=NULL;
	unsigned char ch;
	fpRead = fopen("sunbeam.txt", "r");
		while((ch=fgetc(fpRead))!= EOF)
	printf("%c", ch);

	return 0;
}
```

A. prints sunbeam
B. infinitly loop
C. no output
D. run time error

Answer: B

5. What should be the output of the following code?
if file contents following data in sunbeam.txt
[Sunbeam DBDA DITISS DESD DMC DAC]

```
#include <stdio.h>
int main( void )
{
	FILE *fp=NULL;
	char a[7], b[8], c[8];
	fp = fopen("sunbeam.txt", "r");
	fgets(a, 7, fp);
	fgets(b, 8, fp);
	fgets(c, 8, fp);
	puts(c);
	return 0;
}
```

A. DITISS
B. TISS
C. TISS DES
D. ITISS D

Answer :A