Q.21 What will be the output of the following program?

```c
#include<stdio.h>
int main()
{
int a=5,b=10,c=15;
int *p[3]={&a,&b,&c};
```

```
printf("%d",*p[*p[1]-8]);
return 0;
}
```

(A) Segmentation Fault

(B) Compilation Error

(C) 15

(D) 10

→ *p[10-8] = *p[2] = **c = 15

Q.22 Consider the following C program.

```
#include<stdio.h>
int main( )
{
   static int a[] = {10, 20, 30, 40, 50};
   static int *p[] = {a, a+3, a+4, a+1, a+2};
   int **ptr = p;
   ptr++;
   printf("%d%d", ptr - p, **ptr};
}
```

The output of the program is ___140___
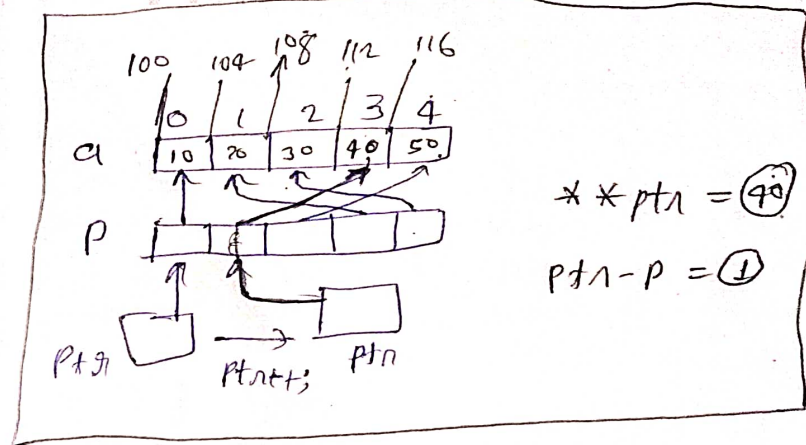
**ptr = 40

ptr - p = 1

(A) 140   (B) 150   (C) 160   (D) 170

Q.23 Consider the following C program.

```
#include<stdio.h>
#include<string.h>
int main () {
char* c = "GATECSIT2017";
char* p = c;
printf("%d", (int) strlen (c + 2[p] - 6[p] - 1));
return 0;
}
```
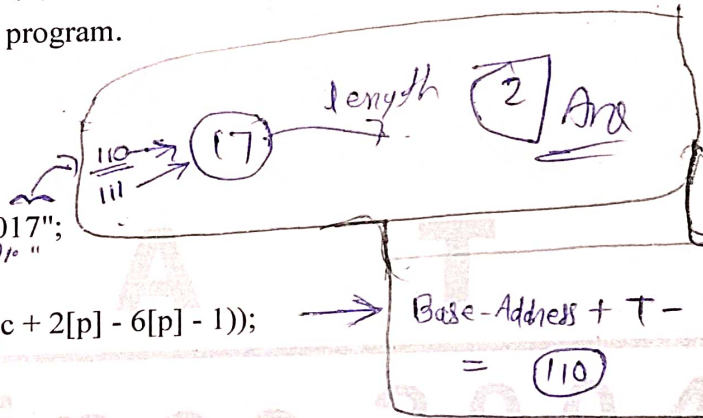
length 2 Ans

110 → 17

Base-Address + T - I - 1 = 100 + 84 - 73 = (110)

The output of the program is___.

(A) 1   (B) 2   (C) 4   (D) 6

Q.24 What will be the output of the following program?

```
#include<stdio.h>
int main()
{
char arr[10];
arr="hello";
```

→ Error

Array name (arr) contain is base-address.
arr not contain any-thing.

```
printf("%s",arr);
return 0;
}
```
(A) hello   (B) h   (C) Null   (D) Compilation error

(E) None of these   2011

Q.25 Char $C[\,] = $ "GATE 2011"

        0 1 2 3 4 5 6 7

Char $*p = C$;

printf("%s", $p + p[3] - p[1]$); $100 + E - A = 104$

output of above code :

(A) Compilation Error
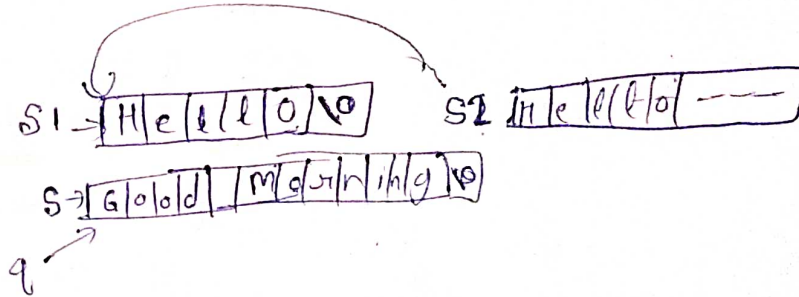
(B) E 2011

(C) 2011

(D) 011

(E) GATE 2011

Q.26 void main ( )
```
{
    char s1[ ] = "Hello";
    char s2[10];
    char *s = "Good Morning";
    char *q;
    s2 = s1;
    q = s;
    printf ("% s ", s1);
    printf ("%s", q);
}
```

$S1 \rightarrow \boxed{H\ e\ l\ l\ O\ \backslash 0}$ $S2\ \boxed{n\ e\ l\ l\ o\ ---}$

$S \rightarrow \boxed{G\ o\ o\ d}\ \boxed{M\ o\ r\ n\ i\ n\ g\ \backslash 0}$

$q \nearrow$

(A) Compilation Error

(B) Hello Hello

(C) Hello Good Morning

(D) Good Morning Hello

Q.27 void main ( )
```
{
    char name [ ] = " Pankaj";
    printf (name + 2);
    printf ("%s ", name + 2);
    printf("%s",& name[2]);
}
```
        $\rightarrow$ h kaj

(A) Compilation Error

(B) Pankaj Pankaj Pankaj

(C) nkaj nkaj nkaj

(D) some Address nkaj nkaj

Q.28   void main ( )

```
{
    char p[7];
    char *s = "string";
    int length = strlen (s);
    for (i = 0; i < length; i++)
        p[i] = s[length – i];
    printf ("%s ", p);
}
```

What is the output?

(A) gnirts

(B) gnirt

(C) string

(D) no output is printed

Q.29   void main ( )

```
{
    char str [ ] = "GATE ACADEMY";
    printf("%s %s %s", & str[5], &5[str], str +5);
}
```

(A) Runtime Error

(B) ACADEMY ACADEMY ACADEMY

(C) CADEMY   CADEMY   CADEMY

(D) Compiler   Error

Q.30   void main ( )

```
{
    char s[ ] = "GATE ACADEMY";
    printf (?);
}
```

What would you put in place of "?" to print ACADEMY

(A) s + 5

(B) & s [5]

(C) "%s ", s + 5

(D) "%s ", & s [5]

(E) All of these

Q.31
```
void main ( )
{
char a[2][4] = {'p','a','n','k','a','j'};
printf ("%s ",* a);
}
```
(A) C.E

(C) Pankaj ✓

(B) Pankaj followed by garbage characters

(D) R.E

Q.32
```
void main ( )
{
char s[10] = "Pankaj";
printf("%s", s[1] - s[4] + s);
}
```
$\rightarrow$ $a - a + (s)$

(A) C.E (B) R.E (C) Pankaj ✓ (D) ankaj

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Q.33
```
void main ( )
{
char s[6] = "1234",* p;
p = s + 2;
* p = '10 ';
printf ("%s ", s);
}
```
(A) 12 (B) 12034 (C) 1204 ✓ (D) C.E

Q34
```
#include<stdio.h>
#include<string.h>
int fun();
int main()
{
int fun();        → f^n declaraction
int fun();
int x;
x=fun();          → f^n call
printf("%d",x);
}
int fun()
{
int l;            → 6
l=strlen("pankaj");
return l;
}
```
(A) 6 6 6 (B) 6 6 (C) 6 ✓ (D) Compilation Error