END-TERM PRACTICAL EXAM.

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TYPE OF PAPER:- REGULAR

Ques3 :-

```
#include <stdio.h>
#include <string.h>
int main()
{
  Char msg[] = "Cryptography"
  Char key[] = "Monarchy"
int mglen = strlen(msg), keylen = strlen(key), i, j;
Char newkey[msglen], enmsg[msglen], demsg[msglen];
//generating new key.
for (i=0; j=0; i < msglen; ++i; ++j)
{
   if (j == keylen)
     j = 0;
   new key[i] = key[j];
}
//encrypt newkey[i] = '\0';
//encryption
```

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```
for (i=0; i< msglen ;++i)
{
    enmsg[i] = ((msg[i] + newKey[i]%.26) + 'A';
}
enmsg[i] = '\0';
// decryption
for (i=0; i< msglen ; ++i)
{
  demsg[i] = (((enmsg[i] - newkey[i]) + 26) %.26) + 'A';
}
demsg[i] = '\0';
printf(" Original msg : %.s", msg);
printf("\n key : %s", key);
printf("\n New generated key : %.s", newkey);
printf ("\n Encrypted msg : %.s", enmsg);
printf (" \n DEcrypted msg : %.s", demsg);
return 0;
}.
```

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