CRYPTOGRAPHY.

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ROLL NO: CSZIM522

ASSIGNMENT : 04

Algorithm:

11 h is grae mod?

CI and C2 are ciffer texte

3

Void decrypt ()

Print (" forter the value CI, CZ")

grap-sconf C CI, CZ)

M = C2 * CCIAd) 1-1 mod P M 21 the plain text

3

```
int moin()

printf (" enter 1 to encrypt and 0 to decrypt");

Sconf (input)

is encrypt = input;

Ef c is encrypt == 1)

E

encrypt();

decrypt();

suturn 0;
```

mains

printy center 1 to encrypt. 0

to decrypt)

Scanf (in encrypt)

if (in encrypt == 1)

encrypt():

if (is—encrypt == 0)

decrypt():

start

encrypt ()

h = g 1 x mol p

C1 = g 1 x mol p

C2 = M x (h 1 x) mol p

1/ 2 û rondom number

1/ P is Large prime number

Plint (C1, C2)

1/ C1, C2 are ciphertists

Scomb (GI, C2)

M = C2 * (GIAB) A-I MODP

print (M)

// M is the plain text

(end