Cyptography Alsonment 6.

: A267 2268

Implementation of Digital Signature Standard Digital signature algorithm

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ROLL NO:

CBRIM522

Algorithm:

void verifyer

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3

11 (4 ez p q) is public key I ham) is host of nework 4 S1182 is Digital signature.

noig Educ)

11 2 is random interpr

S2 = (hCM) + QS,) 27 mod q

3

main()

input-usom)

if (is-8:9m ==1)

Signe);

if (is 8 m = = 0) verifycs;

3

start LIGHTA STATE METERS maino input (istom) if cisem == 1) engla 1221 of 18.00 mg if (is-fign = = 0) verify(); Egnc) Si = (82 mod p) mod ov S2 = (hcm) + d3,) 27 modg Verify V = (en szt ez nodp) moday

V = (eq cm)32 ez sz vodp Jnodg, 1 C q ez p v) is public key, h(M) is hose

11 SI SZ is Digital signature.

end

Acufequi: P = 800 | q = 10| eo = 3

$$e_1 = e_0^{(P-1)/4}$$
 mad p

$$= 3^{(8001-1)/101}$$
 mad 8001

$$e_1 = 6968$$

Bol / verfur:

$$S_1 = (q^2 \text{ ned } p) \text{ ned } q$$

$$= (G_168^{G_1} \text{ ned } 8081) \text{ ned } 101$$

$$= 51$$

$$S_2 = ((hcm) + &S_1) & (hcm) + &S_1) & (hcm) + & (hcm) & (hc$$