Register Number: 136csaous

V SEMESTER DIPLOMA EXAMINATION, NOVEMBER - 2024 **CYBER SECURITY**

TIME : 3 Hours	Max. Marks : 100
Instructions:	
 There are 5 sections. One full question carries 20 marks. Answer one full question from each section. 	
SECTION	N-I
1 a. Define cyber Security. Explain its security princ	
b. Who is a Hacker? Explain different types of Hack	Contraction of the second data is a second
2 a. Explain the three dimensions of Mc Cumber Cub	
b. Define malware. Explain different types of malw	vares. 10
SECTION	I-II
3 a. What is Cryptography? Explain various compone	ents of Cryptography
with neat diagram.	10
b. Explain Diffee-hellman key Exchange Algorithm.	
 4 a. Explain RSA Algorithm. Using RSA solve p=17, c b. Find the GCD of 	
(i) (360,210) (ii) (100,114)	5
(ii) (108,144) SECTION-III	. 5
5 a. Explain the different phases of Microsoft Secure	
b. Define Firewall. Explain its types.	· 10
6 a. What is cloud computing? Explain its different to	
b. Explain top 10 OWASP issues in mobile applicati	tions. 10
SECTION-IV	
7 a. Explain IAM best practices.	10
b. Describe Android application security architector	ture. 10
8 a. What is threat modelling? Why it in necessary?	List five threat modelling methodologies. 10
b. Describe the life cycle of vulnerability management	nent. 10
SECTION-V	
9 a. What is DevOps? Explain its security challenges.	s. 10
b. Explain GRC along with its benefits.	10
10 a. Define Incident management. Explain its stage	
b. Explain ERM? Explain different types of risk face	