This question paper contains 2 printed pages]

SF-12-2022

FACULTY OF COMPUTER STUDIES

B.Sc. (Second Year) (Fourth Semester) EXAMINATION JUNE/JULY, 2022

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper BCS-404-B

(Essentials of Computer Security)

(Thursday, 30-6-2022) Time: 2.00 p.m. to 5.45 p.m. Time—3.45 Hours Maximum Marks—75 N.B. : (i)All questions are compulsory. Assume suitable data, if necessary. (ii)(iii)Figures to the right indicate full marks. Attempt any five of the following: 1. 15 (a) Explain computer security. (b) Explain database management systems. (c)Explain symentric Encryption. (d) Explain intrusion detection. (e) Explain means of Authentication. (*f*) Explain Digital Envelopes. Explain Relational Database. (g) 2. Attempt any three of the following: 15 Explain Access control principles. (a) (b) Explain threats and attacks. (c) What is intruder behavior? What are the password selection strategies? (d)

P.T.O.

WT		(2) SF—12—	-2022
3.	Attempt any three of the following:		15
	(a)	Explain model for computer security.	3000
	(<i>b</i>)	Explain role-based access control.	
	(c)	Explain means of authentication.	200
	(d)	Explain the need of database security.	
4.	Attem	npt any three of the following:	1 5
	(a)	Explain the challenges of computer security.	66
	(<i>b</i>)	Explain asymmetric encryption.	
	(c)	Explain physical characteristics used in Biometric application.	
	(d)	Explain subjects, objects.	
5.	Write	short notes on any three:	15
	(a)	Database encryption	
	(<i>b</i>)	Analysis Approaches	
	(c)	Digital Signature	
	(d)	Fundamental Security Design Principles	
	(e)	Vulnerability of passwords.	