V SEMESTER B.TECH. IT
INTERNAL EXAMINATIONS October 2020
MID-TERM EXAMINATION
SUBJECT: Cyber Security [ICT 3156]

Date of Exam: **20/10/2020**   Time of Exam: **12.00 PM - 1.45 PM**   Max. Marks: 20

Instructions to Candidates:

❖ Answer ALL the questions & missing data, if any, may be suitable assumed.
❖ Write your name and registration number on each page. Signature must be there at the bottom of the page.
❖ Time duration: **90 minutes** for writing. The rest 15 minutes are for downloading the question paper and uploading your answer scripts in PDF format. Please do not wait till the last minute for uploading.
❖ Please do not waste your time by giving irrelevant (or not requested) details.

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1. Briefly explain the strategies for Penetration Testing. [4M]
2. Different attacks are possible on the web. Elucidate four types of malicious web content. [4M]
3. What are the different phases involved in Ethical Hacking? What activity is carried out in these phases (Please write just one line for the activity of each phase)? [3M]
4. Biometrics are widely used for authentication. What are the several problems associated with the use of biometrics as an authentication mechanism (Mention at least 6 problems)? [3M]
5. There are four potential types of harms that affects the security properties of the CIA triad. Describe these four harms. Map these harms to the corresponding security property of the CIA triad which may be affected. [2M]
6. Separation in an operating system can occur in several ways. What are the different ways of separation? [2M]
7. Program flaws can have two kinds of security implications. Briefly explain. [2M]