

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: MTECH
BRANCH: IS

SEMESTER : I
SESSION : MO/19

SUBJECT: IT502 FUNDAMENTALS OF INFORMATION SECURITY

TIME: 3:00 HOURS

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) What do you mean by AUP? Explain IT security framework and its components. [5]
Q.1(b) Define proxy server and write down physical components of LAN-to-WAN Domain along with it's roles and responsibility [5]
- Q.2(a) What is active and passive attack? Briefly explain four major active attacks that can exploit the system security. [5]
Q.2(b) Differentiate between BCP and DRP? Explain different DRP tests in Disaster recovery. [5]
- Q.3(a) What do you mean by Information system security and describe the Tenets of information System Security? [5]
Q.3(b) What is hot site, worm site, and cold site? Mention the steps in responding to a disaster? [5]
- Q.4(a) What is two step authentication? And mention different types of authentication with example? [5]
Q.4(b) Explain briefly the Seven domains of IT infrastructure and mention the roles and responsibility along with diagrammatic work flow. [5]
- Q.5(a) What do you mean by malicious software or malware? Briefly discuss different types hiding programs that effect the system? [5]
Q.5(b) Discuss two key principles of risk management? Briefly explain Risk management process along with diagrammatic work flow. [5]

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