



RAN - 2103000206030023

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**T. Y. B. Sc. (Electronics) (Sem. - VI) Examination April - 2023**

**Generic Elective for Electronics : GE/IDS**

**Advance Networking and Cyber Security**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**સૂચના : / Instructions**

- (1) નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
**Fill up strictly the details of signs on your answer book**
- Name of the Examination:  
T. Y. B. Sc. (Electronics) (Sem. - VI)
- Name of the Subject :  
Generic Elective for Electronics : GE/IDS Advance Networking and Cyber Security
- Subject Code No.: 2103000206030023

Seat No.:

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Student's Signature
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- (2) Figure on the right indicates full marks.  
(3) All symbols and abbreviations have their usual meaning.  
(4) Non-programmable calculators are allowed.  
(5) Q. 1 is compulsory.  
(6) Assume data if necessary.

**Q. 1. Answer in short:**

**08**

- (a) What is cryptography?  
(b) Bluetooth uses what band of frequencies?  
(c) Define internet & intranet.  
(d) Give the expanded form of PAN & SAN

**Q. 2. (a) Define Wireless LAN. Describe briefly the infrared wireless LAN.**

**07**

(b) Briefly explain virtual LAN.

**07**

**OR**

**Q. 2. (a) Give the significance of DNS.**

**07**

(b) Enlist various bridges and explain transparent bridges and source routing bridges.

**07**

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**[ 1 ]**

**[ P.T.O. ]**

**P1733**

- Q. 3.** (a) Name different layers of IP security architecture and explain them briefly. **10**  
(b) Write a short note on wireless PAN. **04**

**OR**

- Q. 3.** (a) Explain Network security in detail. **07**  
(b) State and explain the two modes of operation of IP security. **07**

**Q. 4. Write short notes. (ANY TWO) 14**

- (a) Translating Bridge  
(b) Cryptography  
(c) Fire walls  
(d) Virtual Private Networks
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