



SLR-ST – 263

Seat No.	
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Set **P**

**B.Sc. – III (Semester – VI) (CGPA) Examination, 2018**  
**COMPUTER SCIENCE**  
**Special Paper XIV – Data Communications and Networking – II**

Day and Date : Wednesday, 4-4-2018

Total Marks : 70

Time : 10.30 a.m. to 1.00 p.m.

**Note :** 1) **All questions are compulsory.**  
2) **Figures to the right indicate full marks.**

1. Choose the correct alternative. 14
- 1) HTTP uses \_\_\_\_\_ port number to access world wide web.  
a) 23                      b) 25                      c) 69                      d) 80
  - 2) The Bluetooth supports \_\_\_\_\_  
a) point-to-point connections                      b) point-to-multipoint connection  
c) both (a) and (b)                      d) none of these
  - 3) A repeater receives a signal and before it becomes too weak or corrupted, regenerates original.  
a) bit pattern                      b) signals                      c) segments                      d) frames
  - 4) \_\_\_\_\_ partition holds the Kernel in UNIX.  
a) Root                      b) Boot                      c) Home                      d) Swap
  - 5) One security protocol for the e-mail system is \_\_\_\_\_  
a) IPSec                      b) SSL                      c) PGP                      d) none of the above
  - 6) Class \_\_\_\_\_ addresses were designed for multicasting.  
a) A                      b) B                      c) C                      d) D
  - 7) GSM is a digital cellular phone system using \_\_\_\_\_  
a) FDMA                      b) TDMA                      c) CDMA                      d) Both (a) and (b)
  - 8) Red hat linux uses \_\_\_\_\_ boot loader.  
a) GRUB                      b) LVM                      c) MBR                      d) Home
  - 9) In \_\_\_\_\_ the claimant must identify himself to the verifier.  
a) Message authentication                      b) Message integrity  
c) Entity authentication                      d) Message nonrepudiation

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- 10) Exact range of Bluetooth devices are  
a) 10 m                      b) 20 m                      c) 30 m                      d) 40 m
- 11) A proxy firewall filters at the \_\_\_\_\_  
a) Physical layer    b) Application layer  
c) Data link layer    d) Network layer
- 12) \_\_\_\_\_ is a collection of protocols designed to provide security for a packet at the network level.  
a) IPSec                      b) SSL                      c) PGP                      d) None of these
- 13) \_\_\_\_\_ is a Web indexing and search server designed for small networks or intranets.  
a) Squid                      b) Tux                      c) Dig                      d) Samba
- 14) \_\_\_\_\_ operates at the physical as well as data link layers of the OSI protocol hierarchy.  
a) Hub                      b) Bridges                      c) Gateways                      d) Routers

2. Answer the following (**any 7**).

**14**

- 1) What is meant by ephemeral port number ?
- 2) What is a packet filter firewall ?
- 3) What is learning bridge ?
- 4) What is a proxy ARP ?
- 5) What is meant by message nonrepudiation ?
- 6) Explain Dig server in short.
- 7) Explain transport mode of IPsec in short.
- 8) Explain encryption and decryption in short.
- 9) Explain userdel command of linux.

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3. A) Answer the following (**any 2**). **10**
- 1) Explain types of cells in Bluetooth.
  - 2) Explain the various responsibilities of network security administrator.
  - 3) Explain symmetric and asymmetric algorithm in detail.
- B) Explain three way handshaking mechanism in detail. **4**
4. Answer the following (**any 2**) **14**
- 1) Explain user management of Linux in detail.
  - 2) Explain UDP protocol in detail.
  - 3) Explain Digital Signature in detail.
5. Answer the following (**any 2**) **14**
- 1) Explain Audio and Video Compression in detail.
  - 2) Explain Remote sensing in detail.
  - 3) Explain SSL in detail.
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