

Roll No..... Total No. of Printed Pages : 4

BCA-201

B.C.A. Second Year Examination, 2017

Paper-I

(Computer Communication and Networking)

Time Allowed : Three Hours

Maximum Marks : 100

PART-A (खण्ड-अ) [Marks : 20

Answer all questions (50 words each).

All questions carry equal marks.

सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न का उत्तर 50 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART-B (खण्ड-ब) [Marks : 50

Answer five questions (250 words each), selecting one from each Unit. All questions carry equal marks.

प्रत्येक इकाई में से एक-एक प्रश्न चुनते हुए, कुल पाँच प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 250 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

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P. T. O.

PART-C (खण्ड-स) [Marks : 30

Answer any two questions (300 words each).

All questions carry equal marks.

कोई दो प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 300 शब्दों से अधिक न हो। सभी प्रश्नों के अंक समान हैं।

PART-A

(खण्ड-अ)

1. Answer the following questions :

- (i) Define the Protocol.
- (ii) Define the concept of Frequency and bandwidth.
- (iii) What is meant by Parity check?
- (iv) Define Data encoding.
- (v) Define Multiplexing.
- (vi) What is meant by Routing?
- (vii) What is meant by Passive components?
- (viii) Define Fiber Channels.
- (ix) Define Multicasting.
- (x) What is meant by Internetworking?

10×2=20

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PART-B

UNIT-I

- 2. Discuss the TCP/IP Model. 10
- 3. Discuss the various mode of wireless transmission. 10

UNIT-II

- 4. Explain functional and Procedural aspects of V.24. 10
- 5. Write short notes on the following :
 - (i) Asynchronous and Synchronous transmission.
 - (ii) Data Link control. 5+5=10

UNIT-III

- 6. Discuss the routing in circuit switching Network. https://www.mlsuonline.com 10
- 7. Write short notes on the following :
 - (i) Space Division switching
 - (ii) Control signalling. 5+5=10

UNIT-IV

- 8. Write a note on LAN architecture and IEEE 802 standards. 10
- 9. Explain Medium Access Control (MAC). 10

UNIT-V

- 10. Explain the Principles of Internetworking. 10
- 11. Write a note on TCP and HTTP. 10

PART-C

- 12. Discuss the various transmission media and their comparative study. 15
- 13. Write short notes on the following :
 - (i) Full and Half duplex
 - (ii) Error detection and control
 - (iii) HDLC. 5+5+5=15
- 14. Discuss in brief SS7, Packet switching and X.25. 15
- 15. What is meant by Wireless LANS? Discuss the LAN devices and Latest trends in LAN technologies. 15
- 16. Write short notes on the following :
 - (i) IPV6
 - (ii) SNMP and SMTP
 - (iii) Connection Less Internetworking. 5+5+5=15

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