

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BVoc DEGREE EXAMINATION DECEMBER 2022  
(Third Semester)

Branch – NETWORKING & MOBILE APPLICATION

WIRELESS NETWORKING

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Which one of the following event is not possible in wireless LAN?  
(i) collision detection (ii) acknowledgement of data frames  
(iii) multi-mode data transmission (iv) connection to wired networks
- 2 How many types of wireless networks are there?  
(i) one (ii) two  
(iii) three (iv) four
- 3 What is WPA?  
(i) wi-fi protected access (ii) wired process access  
(iii) wired protected access (iv) wi-fi process access
- 4 Mostly \_\_\_\_\_ is used in wireless LAN.  
(i) Time division multiplexing (ii) orthogonal frequency division multiplexing  
(iii) Space division multiplexing (iv) channel division multiplexing
- 5 Which multiple access technique is used by IEEE 802.11 standard for wireless LAN?  
(i) CDMA (ii) CSMA/CA  
(iii) ALOHA (iv) CSMA/CD

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Explain about Broadband.  
OR  
b Narrate about frequency Hopping spread spectrum.
- 7 a Describe about Satellite parameters.  
OR  
b State the use of third generation systems.
- 8 a Explain about Cordless Systems.  
OR  
b Explain how WiMAX technology will be useful in real world.

Cont...

- 9 a Analyze the usage of Wi-Fi.  
OR  
b Describe about IEEE 802.11 MAC.
- 10 a Explain about baseband.  
OR  
b Summarize the advantages of Bluetooth.

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Compare LAN, MAN and WAN.  
OR  
b Elucidate about the direct sequence spread spectrum.
- 12 a Distinguish between Frequency Division and Time Division.  
OR  
b Discuss in detail about Second generation CDMA.
- 13 a Summaries the standards of broadband wireless access.  
OR  
b Examine about the wireless application protocols.
- 14 a Discuss about Spread Spectrum LANs.  
OR  
b Elucidate about IEEE 802.11 Architecture with a neat diagram.
- 15 a Discuss about other IEEE 802.11 Standards.  
OR  
b Enumerate about Link Manager Protocol.

Z-Z-Z END