

University of Mumbai

Examination June 2021

Examinations Commencing from 1st June 2021

Program: Information Technology

Curriculum Scheme: Rev 2016

Examination: TE Semester VI

Course Code: ITC 604 and Course Name: WIRELESS NETWORKS

Time: 2 hour

Max. Marks: 80

For the students :- All the Questions are compulsory and carry equal marks .

| Q1. | Choose the correct option for following questions. All the Questions are compulsory and carry equal marks |
|-----------|---|
| Q1. | The PSTN is an example of a network. |
| Option A: | packet switched |
| Option B: | circuit switched |
| Option C: | message switched |
| Option D: | alert switched |
| Q2. | For a connection oriented service, we need a |
| Option A: | virtual circuit subnet |
| Option B: | short circuit subnet |
| Option C: | datagram subnet |
| Option D: | wireless subnet |
| Q3. | Which type of switching uses the entire capacity of a dedicated link? |
| Option A: | circuit switching |
| Option B: | datagram packet switching |
| Option C: | virtual circuit packet switching |
| Option D: | message switching |
| Q4. | In _____, each packet of a message need not follow the same path from sender to receiver. |
| Option A: | circuit switching |
| Option B: | message switching |
| Option C: | virtual approach to packet switching |
| Option D: | datagram approach to packet switching |
| Q5. | In _____, each packet of a message need to follow the same path from sender to receiver. |
| Option A: | circuit switching |
| Option B: | message switching |
| Option C: | virtual approach to packet switching |
| Option D: | datagram approach to packet switching |
| Q6. | Sending a packet to all destinations simultaneously is called |
| Option A: | Multicasting |
| Option B: | Unicasting |
| Option C: | Telecasting |
| Option D: | Broadcasting |
| Q7. | Term that is used for stationary or mobile wireless station and also have optional central base station is called |

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| Option A: | Point to point. |
| Option B: | Multi point. |
| Option C: | Network point. |
| Option D: | Access point |
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| Q8. | Wireless communication is started in |
| Option A: | 1869. |
| Option B: | 1895. |
| Option C: | 1879. |
| Option D: | 1885. |
| | |
| Q9. | In wireless LAN, there are many hidden stations so we cannot detect the |
| Option A: | Frames. |
| Option B: | Collision. |
| Option C: | Signal. |
| Option D: | Data. |
| | |
| Q10. | Unauthorized access of information from a wireless device through a Bluetooth connection is called |
| Option A: | bluemaking |
| Option B: | bluesnarfing |
| Option C: | bluestring |
| Option D: | none of these |
| | |
| Q11. | In _____ multiple accesses are achieved by allocating different time slots for the different users. |
| Option A: | TDMA |
| Option B: | CDMA |
| Option C: | FDMA |
| Option D: | FGMA |
| | |
| Q12. | 3G W-CDMA is also known as |
| Option A: | UMTS |
| Option B: | DECT |
| Option C: | DCS-1800 |
| Option D: | ETACS |
| | |
| Q13. | In spread spectrum technique, the multiple users are assigned with |
| Option A: | Same spectrum and same PN code |
| Option B: | Same spectrum and different PN code |
| Option C: | Different spectrum and different PN code |
| Option D: | Different spectrum and same PN code |
| | |
| Q14. | Coherence time refers to |
| Option A: | Time required to attain a call with the busy base station |
| Option B: | Time required for synchronization between the transmitter and the receiver |
| Option C: | Minimum time for change in magnitude and phase of the channel |
| Option D: | Maximum time for change in magnitude and phase of the channel |
| | |
| Q15. | Commonly used mode for 3G networks is |
| Option A: | TDMA |
| Option B: | FDMA |
| Option C: | TDD |
| Option D: | FDD |

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| Q16. | WiMAX is mostly used for |
| Option A: | local area network |
| Option B: | metropolitan area network |
| Option C: | personal area network |
| Option D: | wide area network |
| Q17. | LiFi technology connects to the Internet using _____ source |
| Option A: | Plugin |
| Option B: | Voltage source |
| Option C: | Light |
| Option D: | Firewall |
| Q18. | A firewall is a _____ security system: |
| Option A: | Network |
| Option B: | File |
| Option C: | Program |
| Option D: | Public |
| Q19. | WiMAX provides you? |
| Option A: | Half duplex communication |
| Option B: | Simplex communication |
| Option C: | duplex communication |
| Option D: | Full duplex communication |
| Q20. | Bluetooth have _____ frequency |
| Option A: | 2.4 MHz |
| Option B: | 2.4 GHz |
| Option C: | 5.0 GHz |
| Option D: | 5.0 MHz |

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| Q2 20 Marks Total | Solve any Two Questions out of Three | 10 marks each |
| A | Discuss the threats and challenges in wireless systems. Explain the different types of device security issues. | |
| B | Explain Wireless sensor networks with a suitable diagram. | |
| C | Explain GPRS architecture in detail with neat diagram | |

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| Q3. 20 Marks Total | Solve any Two Questions out of Three | 10 marks each |
| A | Explain exposed and hidden terminal problem with solution. | |
| B | Explain Piconet and Scatternet with respect to Bluetooth. | |
| C | Explain GSM architecture in detail with neat diagram. | |