Program: BE Computer Engineering

Curriculum Scheme: Revised 2012

Examination: Third Year Semester VI

Course Code: CPC604 and Course Name: Mobile Communication and Computing

Time: 1 hour Max. Marks: 50

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

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| Q1. | \_\_\_\_\_\_\_\_\_\_\_\_ is the maximum number of channels that can be provided in a fixed frequency band. |
| Option A: | Channel capacity |
| Option B: | Radio capacity |
| Option C: | Spectral capacity |
| Option D: | Carrier capacity |
|  |  |
| Q2. | The basic requirements of transmitting antennas are: |
| Option A: | High efficiency |
| Option B: | High side lobe |
| Option C: | Large signal to noise ratio |
| Option D: | Low side lobes |
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| Q3. | The satellite that is used as a relay to extend communication distance is called as \_\_\_\_\_\_\_\_\_\_ |
| Option A: | Relay satellites |
| Option B: | Communication satellites |
| Option C: | Repeater satellites |
| Option D: | Geosynchronous satellites |
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| Q4. | Who sets the standards of GSM? |
| Option A: | ITU |
| Option B: | AT & T |
| Option C: | ETSI |
| Option D: | USDC |
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| Q5. | \_\_\_\_\_\_\_\_\_\_ supports the operation and maintenance of GSM. |
| Option A: | BSS |
| Option B: | NSS |
| Option C: | OSS |
| Option D: | MSC |
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| Q6. | \_\_\_\_\_\_\_\_\_\_\_\_ carries signalling and synchronizing commands. |
| Option A: | Traffic channels |
| Option B: | Control channels |
| Option C: | Signalling channel |
| Option D: | Forward channels |
|  |  |
| Q7. | Which of the following burst is used to access service from any base station? |
| Option A: | TCH |
| Option B: | RACH |
| Option C: | SCH |
| Option D: | FCCH |
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| Q8. | What is frequency reuse? |
| Option A: | Process of selecting and allocating channels |
| Option B: | Process of selection of mobile users |
| Option C: | Process of selecting frequency of mobile equipment |
| Option D: | Process of selection of number of cells |
|  |  |
| Q9. | Which of the following is a universally adopted shape of cell? |
| Option A: | Hexagon |
| Option B: | Square |
| Option C: | Triangle |
| Option D: | Circle |
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| Q10. | What is the full form of UMTS? |
| Option A: | Universal Mobile Telephone System |
| Option B: | Ubiquitous Mobile Telephone System |
| Option C: | Ubiquitous Mobile Telemetry System |
| Option D: | Universal Machine Telemedicine System |
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| Q11. | What is the minimum spectrum allocation required by W-CDMA? |
| Option A: | 5 MHz |
| Option B: | 20MHz |
| Option C: | 1.25 MHz |
| Option D: | 200 KHz |
|  |  |
| Q12. | How much increase in spectral efficiency is provided by W-CDMA in comparison to GSM? |
| Option A: | Two times |
| Option B: | Three times |
| Option C: | Six times |
| Option D: | No increase |
|  |  |
| Q13. | What layer in the TCP/IP stack is equivalent to the Transport layer of the OSI model? |
| Option A: | Application |
| Option B: | Host to host |
| Option C: | Internet |
| Option D: | Network Access |
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| Q14. | What is the condition for handoff? |
| Option A: | A mobile moves into a different cell while in conversation |
| Option B: | A mobile remains in the same cell while in conversation |
| Option C: | A mobile moves to different cell when idle |
| Option D: | A mobile remains in the same cell and is idle |
|  |  |
| Q15. | An interconnected collection of piconet is called \_\_\_\_\_\_\_\_\_\_\_ |
| Option A: | scatternet |
| Option B: | micronet |
| Option C: | mininet |
| Option D: | multinet |
|  |  |
| Q16. | A scatternet can have maximum \_\_\_\_\_\_\_\_\_\_ |
| Option A: | 10 piconets |
| Option B: | 20 piconets |
| Option C: | 30 piconets |
| Option D: | 40 piconets |
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| Q17. | Which of the following is not a standard of WLAN? |
| Option A: | HIPER-LAN |
| Option B: | HIPERLAN/2 |
| Option C: | IEEE 802.11b |
| Option D: | AMPS |
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| Q18. | What is the name of the European WLAN standard that provides user data rate upto 54 Mbps? |
| Option A: | UNII |
| Option B: | WISP |
| Option C: | MMAC |
| Option D: | HIPERLAN/2 |
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| Q19. | Android is\_\_ |
| Option A: | Web browser |
| Option B: | Web server |
| Option C: | Operating System |
| Option D: | Block Chain |
|  |  |
| Q20. | The process of transforming plain text into unreadable text. |
| Option A: | Decryption |
| Option B: | Encryption |
| Option C: | Network Security |
| Option D: | Information Hiding |
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| Q21. | The full form of SSL is |
| Option A: | Serial Session Layer |
| Option B: | Secure Socket Layer |
| Option C: | Session Secure Layer |
| Option D: | Series Socket Layer |
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| Q22. | The variant of HMAC is |
| Option A: | testword |
| Option B: | checkword |
| Option C: | testbits |
| Option D: | NMAC |
|  |  |
| Q23. | Another name for Message authentication codes is |
| Option A: | cryptographic codebreak |
| Option B: | cryptographic codesum |
| Option C: | cryptographic checksum |
| Option D: | cryptographic checkbreak |
|  |  |
| Q24. | What are the common security threats? |
| Option A: | File Shredding |
| Option B: | File sharing and permission |
| Option C: | File corrupting |
| Option D: | File integrity |
|  |  |
| Q25. | Capacity of a cellular system is directly proportional to \_\_\_\_\_\_\_\_\_\_ |
| Option A: | Number of cells |
| Option B: | Number of times a cluster is replicated |
| Option C: | Number of Base stations |
| Option D: | Number of users |