Program: BE ELECTRONICS AND TELECOMMUNICATION Engineering

Curriculum Scheme: Revised 2012

Examination: Final Year Semester VIII

Course Code: **ETC801** and Course Name: **Wireless Networks**

Time: 1 hour Max. Marks: 50

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**SAMPLE PAPER**

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

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| Q1. | Which of the following is the world’s first cellular system to specify digital modulation and network level architecture? |
| Option A: | GSM |
| Option B: | AMPS |
| Option C: | CDMA |
| Option D: | IS-54 |
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| Q2. | Who sets the standards of GSM? |
| Option A: | ITU |
| Option B: | AT & T |
| Option C: | ETSI |
| Option D: | USDC |
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| Q3. | Which of the following comes under supplementary ISDN services? |
| Option A: | Emergency calling |
| Option B: | Packet switched protocols |
| Option C: | Call diversion |
| Option D: | Standard mobile telephony |
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| Q4. | Which of the following burst is used to broadcast the frequency and time synchronization control messages? |
| Option A: | FCCH and SCH |
| Option B: | TCH and DCCH |
| Option C: | RACH and TCH |
| Option D: | FCCH and DCCH |
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| Q5. | Link budget does not consists of calculation of |
| Option A: | Useful signal power |
| Option B: | Interfering noise power |
| Option C: | Useful signal & Interfering noise power |
| Option D: | Interfacing of motor |
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| Q6. | Link budget can help in predicting |
| Option A: | Equipment weight and size |
| Option B: | Technical risk |
| Option C: | Prime power requirements |
| Option D: | Maintainece |
|  |  |
| Q7. | Which factor adds phase noise to the signal? |
| Option A: | Jitter |
| Option B: | Phase fluctuations |
| Option C: | Jitter & Phase fluctuations |
| Option D: | current fluctuations |
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| Q8. | Space loss occurs due to a decrease in |
| Option A: | Electric field strength |
| Option B: | Efficiency |
| Option C: | Phase |
| Option D: | Signal power |
|  |  |
| Q9. | Bluetooth is the wireless technology for \_\_\_\_\_\_\_\_\_\_ |
| Option A: | local area network |
| Option B: | personal area network |
| Option C: | metropolitan area network |
| Option D: | wide area network |
|  |  |
| Q10. | The data rate for Bluetooth technology is \_\_\_\_\_\_\_ Mbit/s |
| Option A: | 1 |
| Option B: | 2 |
| Option C: | 3 |
| Option D: | 4 |
|  |  |
| Q11. | The compatibility of Bluetooth is \_\_\_\_\_\_\_\_. |
| Option A: | with 802.10 standard. |
| Option B: | with 802.11 standard. |
| Option C: | with 802.12 standard. |
| Option D: | with 802.13 standard. |
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| Q12. | Any one criterion for Wireless personal area network is\_\_\_\_\_\_\_\_\_\_\_. |
| Option A: | less market potential. |
| Option B: | less compatibility. |
| Option C: | less technical feasibility. |
| Option D: | high technical feasibility |
|  |  |
| Q13. | choose odd one : A sensor network is an infrastructure comprised of : |
| Option A: | Sensing |
| Option B: | Computing |
| Option C: | communicating |
| Option D: | deriving |
|  |  |
| Q14. | Power efficiency in WSNs is generally accomplished in three ways: |
| Option A: | low duty cycle , local network , multihop |
| Option B: | high duty cycle, local network , multihop |
| Option C: | low duty cycle , low network , multihop |
| Option D: | high duty cycle , low network , multihop |
|  |  |
| Q15. | Which not an application of WSN |
| Option A: | Forest fire detection |
| Option B: | Flood detection |
| Option C: | Drug administration |
| Option D: | data entry in computer. |
|  |  |
| Q16. | choose odd one for : The components of a (remote) sensing node include |
| Option A: | A sensing and actuation unit (single element or array) |
| Option B: | A processing unit |
| Option C: | A communication unit |
| Option D: | Motor |
|  |  |
| Q17. | What is the other name for object middleware? |
| Option A: | Object request interface |
| Option B: | Object enabled interface |
| Option C: | Object Request broker |
| Option D: | Object enabled broker |
|  |  |
| Q18. | The \_\_\_\_\_\_\_ calls certain procedures on remote systems and is used to perform synchronous or asynchronous interactions between systems. |
| Option A: | Procedure |
| Option B: | RPC |
| Option C: | Message Oriented |
| Option D: | DB |
|  |  |
| Q19. | The application-level protocol in which a few manager stations control a set of agents is called\_\_\_\_\_\_ |
| Option A: | HTML |
| Option B: | TCP |
| Option C: | SNMP |
| Option D: | SNMP/IP |
|  |  |
| Q20. | Full duplex mode increases the capacity of each domain by \_\_\_\_\_\_\_\_ |
| Option A: | 10 to 20 mbps |
| Option B: | 20 to 30 mbps |
| Option C: | 30 to 40 mbps |
| Option D: | 40 to 50 mbps |
|  |  |
| Q21. | Telnet is used for \_\_\_\_\_\_\_ |
| Option A: | Television on net |
| Option B: | Network of Telephones |
| Option C: | Remote Login |
| Option D: | Teleshopping site |
|  |  |
| Q22. | Which operating mode of telnet is full duplex? |
| Option A: | default mode |
| Option B: | server mode |
| Option C: | line mode |
| Option D: | character mode |
|  |  |
| Q23. | The decimal code of Interpret as Command (IAC) character is \_\_\_\_\_ |
| Option A: | 252 |
| Option B: | 253 |
| Option C: | 254 |
| Option D: | 255 |
|  |  |
| Q24. | \_\_\_\_\_\_\_\_\_ also known as impulse or zero-carrier radio technology. |
| Option A: | Ultra wideband technology |
| Option B: | Femtocell technology |
| Option C: | Multicasting |
| Option D: | Multiplexing |
|  |  |
| Q25. | In TM–UWB, the system uses a modulation technique called \_\_\_\_\_\_\_ |
| Option A: | Pulse width modulation |
| Option B: | Pulse code modulation |
| Option C: | Pulse position modulation |
| Option D: | Pulse amplitude modulation |