

These are sample MCQs to indicate pattern, may or may not appear in examination

University of Mumbai
Online Examination 2020

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

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

Q1.	Which of the following is not advantage of 3G/HSPA over Wi-Fi?
Option A:	Mobility
Option B:	Guarantee of Service
Option C:	Data rate is not limited by the air interface but by the ADSL backhaul to the Wi-Fi access point
Option D:	Interferences
Q2.	In LTE, what is the benefit of Peak to Average Power reduction in the uplink?
Option A:	Improved uplink coverage
Option B:	Lower UE power consumption
Option C:	Reduced equalizer complexity
Option D:	Improved uplink coverage, lower UE power consumption and reduced equalizer
Q3.	Which of the following is not a phase in Wireless Network Design?
Option A:	dimensioning phase
Option B:	cost reduction phase
Option C:	detailed radio network planning phase
Option D:	operation and optimization phase
Q4.	Which approach reduces the cell size to increase capacity?
Option A:	Intelligent cell approach
Option B:	Microcell approach
Option C:	Top-down approach
Option D:	Bottom-up approach
Q5.	Propagation within building is not influenced by _____
Option A:	Layout of the building
Option B:	Construction materials

Option C:	Building type
Option D:	Trees outside the building
Q6.	Which of the following is not part of a Bluetooth Protocol Stack?
Option A:	MM
Option B:	SDP
Option C:	L2CAP
Option D:	Link Manager
Q7.	In a Zigbee network, a single device that controls the network is called _____.
Option A:	master
Option B:	server
Option C:	coordinator
Option D:	pointer
Q8.	RFID tag does not consist of
Option A:	Transponder
Option B:	Processor
Option C:	Antenna
Option D:	Memory
Q9.	A typical sensor node is sort of like a mini computing device, which has some additional capabilities of _____
Option A:	sensing
Option B:	locating
Option C:	recognizing
Option D:	noting
Q10.	why the sensor nodes network is useful?
Option A:	It can cover small area
Option B:	It can cover large area
Option C:	avoid complication
Option D:	due to simplicity
Q11.	Which of the following is not a resource constraints in WSN?
Option A:	Power consumption
Option B:	Communication
Option C:	Computation
Option D:	remote connectivity
Q12.	Middleware Service for Monitoring divides a WSN into two regions: dominant and _____

Option A:	non determined
Option B:	non dominant
Option C:	aggressive
Option D:	complicated
Q13.	Which below is not an issue in sensor network management?
Option A:	localization
Option B:	maintenance
Option C:	bandwidth
Option D:	fault tolerance
Q14.	How much increase in spectral efficiency is provided by UMTS/W-CDMA in comparison to GSM?
Option A:	Two times
Option B:	Three times
Option C:	No increase
Option D:	Six times
Q15.	_____ propagation distances make it more difficult to insure far-field radiation for all receiver location and types of antenna.
Option A:	Varying
Option B:	Constant
Option C:	Smaller
Option D:	Larger
Q16.	A device in one piconet may also exist as a part of another piconet and may function as
Option A:	Master Only
Option B:	Slave only
Option C:	Idle Device Only
Option D:	Master or Slave
Q17.	Which category have most invariably mesh-based systems with multihop radio connectivity among or between WNs, utilizing dynamic routing in both the wireless and wireline portions of the network?
Option A:	Category -II
Option B:	Category III
Option C:	Category I
Option D:	Category VI
Q18.	A base station may or may not be a sensor node whereas, a _____ necessarily is a sensor node.

Option A:	master node
Option B:	synchronization node
Option C:	slave node
Option D:	data node
Q19.	In middleware the event detection and management, functional element is used to detect and manage events such as _____.
Option A:	observing
Option B:	locating
Option C:	detecting
Option D:	sensing
Q20.	Which of the following is not a function middleware in WSN?
Option A:	data editing
Option B:	data dissemination
Option C:	data compression
Option D:	data storage
Q21.	The best performance on HSPA is achieved by deploying _____
Option A:	Outdoor DAS
Option B:	Indoor DAS
Option C:	Dipole Antenna
Option D:	Hertzian Dipole Antenna
Q22.	Calculate the uplink throughput for data service only for a WCDMA cell using the following information: <ul style="list-style-type: none"> • Required $E_b/N_t = 1$ dB • Required interference margin: 3 dB (cell loading = 0.5) • Interference factor due to other cells= 0.5 • Channel activity factor= 1.0 • Chip Rate= 3.84 Mcps
Option A:	508 Kbps
Option B:	1016 Kbps
Option C:	254 Kbps
Option D:	127 Kbps
Q23.	_____ is defined as the difference between the IB signal and the outdoor network, and vice versa.
Option A:	Isolation
Option B:	Attenuation
Option C:	Phase Difference
Option D:	Degradation

Q24.	Which of the following is not a drawback of UWB technology?
Option A:	Not appropriate for WAN
Option B:	Power limited
Option C:	Small spectrum
Option D:	Limited jitter requirements
Q25.	_____ examines the device Network and architectures try to achieve improved query performance.
Option A:	Device Database System (DDS)
Option B:	Structured Query Language (SQL)
Option C:	MiLAN
Option D:	Internet-Scale Resource-Intensive Sensor Networks Services (IrisNet)