Mobile Computing 2019

	on broadcast is an example of	transmission.
Answer: c) Simplex	
2) PSTN star	nds for	
Answer: b) Public Switch Telephone Network	
	ed on the roof of a car, the length of vn as Marconi antenna.	is efficient. This
Answer: a) λ/4	
4) MAC sub	layer is the part of	
Answer: c) Data link layer	
5) BSS in GS	SM stands for	
Answer: b) Basic Services Set	
6) is	s essential for a database in Android.	
Answer: b) SQLite	
7) is	s useful to receive broadcast messages	from the system.

Answer: a) Broadcast receivers
8) MANET stands for
Answer: c) Mobile ad-hoc networking
9) Radio transmission starts at several kHz, the range.
Answer: b) Very low frequency
10) is used for allocating a separated space to users in wireless networks.
Answer: c) TDMA
11)Infra-red technology uses diffuse light reflected at walls, furniture etc. or directed light if exists between sender and receiver.
Answer: b) Line-of-Sight (LOS)
12)PLCP stands for
Answer: a) Physical layer convergence protocol
13) is based on a client/server model.
Answer: a) DHCP
14)GSM stands for

Answer: d) Global system for mobile communications



### Q.1 A) Choose	correct	alternatives:
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1) allows subscribers to operate in mobile phone service areas other than the service area where the service is subscribed.
Answer: a) Roaming
2) In cellular technology the concept used is Answer: c) Frequency Reuse
3) A small division of a given geographical area is known as Answer: b) Cell
4) in FDMA is assigned between the spectrum of two adjacent users. Answer: c) Guard band
5) The uplink frequency of P-GSM system is Answer: c) 890-915 MHz
6) The type of access technology used in GSM technology is

7) A television broadcast is an example of transmission.
Answer: a) Simplex
8) The protocol solves the problem of hidden and exposed terminal.
Answer: d) MACA
9) PSTN stands for
Answer: c) Public Switch Telephone Network
10)The xml file that contains all the text that your application uses.
Answer: b) string.xml
B) State True or False:
1) EIR is a database that contains information about the identity of mobile equipment.
Answer: True

Answer: a) FDMA / TDMA

2) Fading of the received radio signal in a mobile communication environment occurs because of single path propagation.

Answer: False (Fading is caused by multi-path propagation)

3) The R.java file is where you edit the resources of an Android project.

Answer: False (The R.java file is auto-generated and should not be edited directly)

4) In Android, there can be only one activity at a given time.

Answer: False (Android applications can have multiple activities running concurrently)

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Sure, here are the answers to the fill-in-the-blank questions:

1) Several directed antennas can be combined on a single pole to construct a _____.

Answer: a) Sectorized antenna

2) Which of the following is not the basis for SDMA algorithm?

Answer: b) Cells

3) In IEEE 802.11 wireless LAN, sub layer handles modulation and encoding/decoding of signal.
Answer: b) PMD
4) In mobile IP, a tunnel usually ends at
Answer: c) Home agent
5) is used for cellular phone, satellite, and wireless LAN communications.
Answer: b) Microwaves
6) MAC is
Answer: a) Medium Access Control
7) can provide several services to the MN during its visit to the foreign network.
Answer: c) FA (Foreign Agent)
8) The Um radio interface is used to connect
Answer: b) BTS and MS (Base Transceiver Station and Mobile Station)
9) IMSI number consists of

Answer: d) All of the above (MSIN, Mobile Network Code, Mobile Country Code)
10) Which of the following algorithms is used for authentication in GSM?
Answer: c) A3
11) is used to provide the data or to access the data by other applications which is stored by itself.
Answer: c) Content-provider
12) Which is not an Android layout? Answer: a) Activity
13) The main purpose of is to inform the home agent of the current location for correct forwarding of packets. Answer: b) Registration
14) Forming groups of piconets called Answer: b) Scatternet

Artificial Intelligence

1) Knowledge may be
Answer: d) Both (I) and (II) above (Declarative and Procedural)
2) The first widely-used commercial form of Artificial Intelligence (AI) is being used in many popular products like microwave ovens, automobiles and plug in circuit boards for desktop PCs. It allows machines to handle vague information with deftness that mimics human intuition. What is the name of this AI? Answer: c) Fuzzy logic
3) What is the extraction of the meaning of utterance?
Answer: b) Semantic
4) One of the main challenges of NLP is Answer: a) Handling Ambiguity of Sentences
Answer. a) Hariding Ambiguity of Sentences
5) Treatment chosen by doctor for a patient for a disease is based on.
Answer: c) Current symptoms plus some knowledge form the textbooks plus experience
6) Which search strategy is also called as blind search?

Answer: a) Uniformed search

7) Which search is implemented with an empty first-in-first-out queue?

Answer: b) Breadth-first search

8) Which of the following is/are Uninformed Search technique/techniques?

Answer: d) All of the mentioned (Breadth First Search (BFS), Depth First Search (DFS), Bidirectional Search)

9) Best-First search can be implemented using the following data structure.

Answer: c) Priority Queue

10) _____ Is an algorithm, a loop that continually moves in the direction of increasing value – that is uphill.

Answer: b) Hill-Climbing

11) Which is true regarding BFS (Breadth First Search)?

Answer: b) The entire tree so far been generated must be stored in BFS

12) Fuzzy Set theory defines fuzzy operators. Choose the fuzzy operators from the following.

Answer: d) All of the mentioned (AND, OR, NOT)
13) Semantic Networks is
Answer: a) A way of representing knowledge
14) Hill-Climbing approach stuck for the following reasons.
Answer: d) All of the mentioned (Local maxima, Ridges, Plateau)
<mark>2018</mark>
Q.1 A) Choose correct alternatives:
1) begin with the start symbol and apply the grammar rules forward until symbols at the terminals of the tree correspond to the components of the sentence being parsed.
Answer: a) Top-Down parsing
2) measures the strength of the evidence in favor of a set of propositions.
Answer: c) Belief
3) is an act to represent building of new information out of old
Answer: c) MBUILD

4) reasoning suggests to generate the next level by taking each node generated at the previous level and applying to it all of the rules whose left sides match it.
Answer: b) Forward
5) The average branching factor Chess game is
Answer: a) 50
6) The real-world facts would be represented as logical propositions written as in propositional logic.
Answer: b) Well formed formulas
7) is a program that provides advice on mineral exploration. Answer: b) PROSPECTOR
8) is the ability to acquire new information easily. Answer: d) Acquisition Efficiency
9) A two-list OPEN and CLOSED are used in the algorithm. Answer: a) AO*
10) The first requirement of a good is that it causes motion. Answer: b) Control strategy

B) State True or False:

1) Abstraction provides a way of solving problems for which no more direct approach is available.

Answer: True

2) Recoverable problems are those in which solution steps cannot be undone.

Answer: True

3) DENDRAL is a program that infers the structure of organic compounds using mass spectrogram and nuclear magnetic resonance data.

Answer: True

4) Matching is a collection of attributes and associated values that describes some entity in the word.

Answer: False

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Here are the answers to the multiple-choice questions:

1) A problem in a search space is defined by one of these states
Answer: a) Initial state
2) Hill-Climbing algorithm terminates when,
Answer: c) No neighbor has a higher value
3) A search algorithm takes as an input and returns as an output.
Answer: b) Problem, solution
4) Which search method takes less memory?
Answer: a) Depth-First Search
5) A production rule consists of
Answer: c) Set of Rule & sequence of steps
6) Which is the best way to go for Game playing problem?
Answer: b) Heuristic approach (Some knowledge is stored)
7) What is Artificial intelligence?
Answer: c) Making a Machine intelligent

8) A.M. Turing developed a technique for determining whether a computer could or could not demonstrate the artificial Intelligence, Presently, this technique is called	
Answer: a) Turing Test	
9) Semantic Networks is	
Answer: a) A way of representing knowledge	
10) Which search uses the problem-specific knowledge beyond the definition of the problem?	
Answer: a) Informed search	
11) Which is used to improve the performance of heuristic search?	
Answer: b) Quality of heuristic function	
12) Which of the following is not the style of inference?	
Answer: d) Modus Ponen	
13) Translate the following statement into FOL.	
"For every a, if a is a PhD student, then a has a master's degree"	
Answer: a) ∀ a PhD(a) -> Master(a)	
14) Frames is	
Answer: c) A way of representing knowledge	