Subject: Research in Computing (PSIT101) Sample Questions

- Q1. When a researcher calls a potential respondent by phone, and that person hangs up the phone without answering the survey questions, we call that person a:
- A. participant-observer.
- B. nonrespondent.
- C. moderator
- D. respondent.
- Q2. What type of question occurs when an interviewer asks an interviewee: "Why do you feel that way?"
- A. Biased question
- B. Unstructured question
- C. Self-selection question
- D. Structured question
- Q3. When a respondent fails to answer a question asked during a personal interview, this is called a(n):
- A. callback.
- B. item nonresponse.
- C. prop.
- D. self-administered questionnaire
- Q4. The systematic process of recording behavior without influencing the behavior of the person who is being recorded is called:
- A. coaching.
- B. observation.
- C. click-through rate.
- D. response latency.
- Q5. People who participate in a research experiment are called:
- A. modifiers
- B. confounders.
- C. subjects.
- D. testing effects
- Q6. The process of assigning a "number" to a set of data points is called:
- A. convergent validity
- B. a category scale.
- C. measurement.
- D. discriminant validity.
- Q7. When subjects have their attitudes measured several times, and the attitudes remain very consistent, we say that this attitude scale is:
- A. reliable.
- B. valid.

- C. high in face validity.
- D. high in content validity
- Q8. Which aspect of an attitude is a consumer referring to when she says: "I love my new Honda Accord"?
- A. Cognitive
- B. Behavioral
- C. Disjoint
- D. Affective
- Q9. A subset of people from a larger target market of people is called a
- A. population parameter
- B. sample.
- C. disproportionate sample
- D. stratified sample.
- Q10. When a study is designed correctly, but is carried out in a way that is inconsistent with the design, this is a type of:
- A. random sampling error
- B. systematic sampling error.
- C. auspices bias.
- D. interviewer error
- Q11. The application of the scientific method to attempt to find the truth about some business activity is called:
- A. performance-monitoring research.
- B. business research.
- C. production-oriented research.
- D. basic research.
- Q12. Research that is not trying to solve a specific business problem for an organization but is interested in studying "knowledge in general" is called
- A. applied research.
- B. performance-monitoring research
- C. product-oriented research
- D. basic research.
- Q13. Which type of research decision is trying to decide if a research project is the best use of its available funds?
- A. Product decision
- B. Benefits/costs decision
- C. Production decision
- D. Performance-monitoring decision
- Q14. Which part of the Internet consists of a set of servers that retrieve information and create web pages?
- A. WWW
- B. EDI
- C. DSS
- D. PERT

- Q15. When a researcher goes to the library to attempt to find articles that relate to the research study that she is planning to do, what is this called?
- A. A literature review
- B. Causal research
- C. Descriptive research
- D. An experiment
- Q16. Which of the following is the first step in the problem-definition process?
- A. Identifying key problems.
- B. Choosing the unit of analysis.
- C. Writing the research objectives.
- D. Identifying key symptoms of the problem.
- Q17. What type of research is exploratory and is not intended to provide "hard numbers?"
- A. Quantitative research
- B. Qualitative research
- C. Intersubjective research
- D. Phenomenology
- Q18. What type of variable is "sales dollars?"
- A. Independent
- B. Continuous
- C. Discontinuous
- D. Categorical
- Q19. Using a large computer to search through a large database to find trends among customers is an example of:
- A. neural networking.
- B. data mining.
- C. Myspace.
- D. single-source data.
- Q20. The people who fill out and return a mail survey are called:
- A. participant-observers
- B. moderators.
- C. focus group participants.
- D. respondents.
- Q21. Arranging data into a table is called:
- A. tabulation.
- B. cross-tabulation
- C. verification
- D. a histogram.
- Q22. When a researcher converts the birth year of a respondent to that respondent's age, this is an example of:
- A. data transformation
- B. the outlier effect.

D.	an index number.
Q23	What type of hypothesis refers to the study of how one variable changes from one group
to ar	ther group?

A. Critical value

a histogram.

B. Relational

C.

- C. Differences between groups
- D. Differences from some standard
- Q24. The probability of the difference between an observed value and an expected value is called:
- A. a one-tail test.
- B. a significance level.
- C. a two-tail test.
- D. degrees of freedom.
- Q25. The chi-square test is also called the ____test.
- A. one-group t-test
- B. goodness-of-fit
- C. two-group t-test
- D. one-way ANOVA

Subject: Data Science (PSIT102) Sample Questions 1. Data storage and processing tools are part of data science environment A. В. structure C. none of these D. ecosystem 2. Data Vault has how many types of components. A. 4 B. C. 5 D. 2 3. Data vault _____ connects hubs satellites A. В. hubs C. links D. entities 4. Match the correct explanation for the data approaches mentioned below:Data Approaches:1. Schema on Write2. Schema on Read Explanations:a. Schema exists before loading the data b. Schema is created after loading the data c. Schema & Data exist before loading the datad. Schema & Data exist after loading the data" A. 1-c, 2-d 1-a, 2-c В. C. 1-b, 2-d D. 1-a, 2-b 5. A data lake holds data which of the following characteristics A. none of these both of these В. C. Raw Data vast amount of data D.

"Data Vault structure is built from which of the following data structures: A. Hubs B.

Links C. Satellites D. Entity"

ABE

BCD

ABC

ABDE

A. B.

C.

D.

- 7. Functional layer have how many supersteps
- A. 8
- B. 7
- C. 6
- D. 5
- 8. "Match the following terms with their descriptions correctly:Terms:1. Spark2. GraphX3. Mesos Descriptions:A. Open source platform developed by ApacheB. A powerful graph-processing API C. Is an open source cluster manager"
- A. A-1, B-2, C-3
- B. A-3, B-2, C-1
- C. A-2, B-3, C-1
- D. A-1, B-3, C-2
- 9. Apache Spark is which type of tool.
- A. data processing
- B. both of these
- C. none of these
- D. data storage
- 10. Which of these programming languages are used in data science.
- A. Scala
- B. R
- C. All of these
- D. Python

11.CRISP MODEL IS ASSOCIATED WITH

- A. data gathering
- B. Data mINING
- C. data warehouse
- D. Data Cleaning
- 12."Match the following terms with their descriptions correctly:Terms:A. The control sublayerB. The functional layer Description:1. records the processes that are running at any specific point within the environment. 2. ensures that the ecosystem is balanced across the accessible processing capability or has the capability to top up capability during periods of extreme processing. 3. controls the execution of the current active data science. 4. performs all the data processing chains for the practical data science."
- A. A-2, B-3
- B. A-1, B-4
- C. A-3, B-4
- D. A-1, B-2

13. Tł	nere are how many layers in data science framework
A.	4
B.	5
C.	7
D.	6
14.Da A. B. C. D.	ata Science Framework starts with operational layer business layer utility layer none of these
that fi A. B. C. D.	_ means to evaluate how unique the specific value is, in comparison to the rest of the data in eld. Validity Accuracy Uniqueness Completeness
	g-term historical storage of data from multiple operational systems." Data warehouse Database Data Vault Datawarehouse bus matrix
17.De A.	escriptive characteristics of the data are stored in hubs
В.	none of these
C.	links
D.	satellites
18 A. B. C.	is an open source cluster computing framework Mesos MQTT Akka
D.	Spark

19."	is a powerful graph processing ADI for the Apacha Spark analytics."
A.	is a powerful graph-processing API for the Apache Spark analytics ." GraphS
В.	GraphB
C.	Graph
	1
D.	GraphX
20.In (CRISP modelling phase is looped with which phase
A.	Data preparation
B.	Evaluation
C.	Data Understanding
D.	Business Understanding
21.Ap	ache Spark is which type of tool.
A.	data processing
B.	both of these
C.	none of these
D.	data storage
22.Wh	nich of these programming languages are used in data science. *
A.	Scala
B.	R
C.	All of these
D.	Python
	ISP MODEL IS ASSOCIATED WITH *
A.	data gathering
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D.	Data Cleaning
	ere are how many layers in data science framework *
A.	4
B.	5
C.	7
D.	6
	ta Science Framework starts with *
A.	operational layer
B.	business layer
C.	utility layer
D.	none of these

Subject: Cloud Computing (PSIT103)

Sample Questions	Samp	le Q	uestion
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1.	The mechanism is a service agent that monitors and tracks
	nmunications between cloud service consumers and cloud services for dynamic scaling
-	poses.
a.	Automated Scaling Listener
b.	Automatic Scaling Listener
C.	ϵ
d.	Automated Scaled Listener
2.	is a common approach to horizontal scaling is to balance a workload
	oss two or more IT resources to increase performance and capacity beyond what a single
	resource can provide.
a.	Load Balancer
b.	Load Distribution
c.	Load Symmetric Balancer
d.	Load Asymmetric Balancer
3.	The monitor mechanism is used to specifically observe the runtime
-	formance of cloud services to ensure that they are fulfilling the contractual QoS
-	uirements.
a.	
	SLM Monitor
	SLP Monitor
d.	SLA Monitor
4. acc	The monitor mechanism measures cloud-based IT resource usage in ordance with predefined pricing parameters and generates usage logs for fee calculations
	I billing purpose.
a.	Pay-as-Use
	Pay-on-Use
c.	Pay-per-Use
d.	Pay-to-Use
_	
5.	monitor mechanism is used for tracking data for networks and IT resources
	support of (or dictated by) regulatory and contractual obligations.
a.	SLA
b.	Audit
c.	Log Automated Speling Listener
d.	Automated Scaling Listener

6mechanism is used to increase the reliability and availability of IT resource
by using established clustering technology to provide redundant implementations.
a. Backup System
b. Failover System
c. Redundant System
d. Real Time System
7. The is a fundamental part of virtualization infrastructure that is primarily used
to generate virtual server instances of a physical server.
a. Virtualized Server
b. Hypervisor
c. VMware's
d. VIMs
8. The is used to group multiple IT resource instances so that they can be
operated as a single IT resource.
a. Resource Grouping
b. Resource Association
c. Resource Cluster
d. Resource Assembling
9. The is used to facilitate runtime data transformation so as to make a cloud
service accessible to a wider range of cloud service consumer programs and devices.
a. Multilevel Device Broker
b. Mobile Device Broker
c. Multi Device Broker
d. Multiple Device Broker
10. A is a storage device that is used to temporarily persist state data for
software programs.
a. State Management Database
b. Stateless Management Database
c. Stateful Management Database
d. Stated Management Databas <u>e</u>
11 computing refers to applications and services that run on a distributed
network using virtualized resources.
a. Distributed
b. Cloud
c. Soft
d. Parallel

Interb. deple c. as-ye	Soft computing represents a real paradigm shift in the way in which systems are
a.b.c.	as a utility is a dream that dates from the beginning of the computing stry itself. Model Cloud Computing Software Architecture
14. a. b. c. d.	Which of the following is an essential concept related to Cloud? Reliability Productivity Abstraction Portability
b.	Point out the wrong statement. All applications benefit from deployment in the cloud With cloud computing, you can start very small and become big very fast Cloud computing is revolutionary, even if the technology it is built on is evolutionary Cloud storage is needed today.
b.	Which of the following cloud concepts is related to pooling and sharing of resources? Polymorphism Abstraction Virtualization Specialization
a. b. c.	Cloud computing is an abstraction based on the notion of pooling physical resources presenting them as a resource. Real Virtual Opaque Transparent

- 18. Which of the following is Cloud Platform by Amazon?
- a. Azure
- b. AWS

c. d.	Cloudera Cloudcroft
b. c.	Cloud Computing refers to? accessing the hardware configuring the hardware manipulating the hardware verifying the hardware
a. b. c.	Which of the following is true about cloud computing? Cloud computing is platform dependent Cloud Computing makes our business applications mobile and collaborative. Cloud Computing provides us means of accessing the applications as utilities over nputers only. Cloud computing is complex to configure.
21. ger	The is a fundamental part of virtualization infrastructure that is primarily used to nerate virtual server instances of a physical server.
a. b. c. d.	Virtualized Server Hypervisor VMware's VIMs
22. ope a. b. c. d.	The is used to group multiple IT resource instances so that they can be erated as a single IT resource. Resource Grouping Resource Association Resource Cluster Resource Assembling
23. ser a. b. c. d.	The is used to facilitate runtime data transformation so as to make a cloud vice accessible to a wider range of cloud service consumer programs and devices. Multilevel Device Broker Mobile Device Broker Multi Device Broker Multiple Device Broker
24. sof a. b. c. d.	A is a storage device that is used to temporarily persist state data for tware programs. State Management Database Stateless Management Database Stateful Management Database Stated Management Database

25. A	service agent is able to intercept and forward the network traffic that flows
within a cloud.	
a. Malic	zious
b. Anon	ymous

c. Trustedd. Insider

Subject: Soft Computing Techniques (PSIT104) Sample Questions

1.Neu	rons can not be termed as
a)	Neurodes
b)	Processing elements
c)	Nodes
d)	axioms
2. Con	nbining a number of ADALINE is
a)	MULTILINE
b)	MULTIPLE LINE
c)	MADALINE
d)	MANYLINE
3	is a Systematic method for training multilayer artificial neural network
a)	Back propagation
b)	Forward propagation
c)	Speed propagation
d)	Multilayer propagation
4. Rei	nforced learning also known as
a)	Output based learning
b)	Error based learning
c)	Back propagation learning
d)	Perceptron learning
5	is a store house of associated patterns which are encoded in some form
a)	Associative memory
b)	Commutative memory
c)	Neural networks
d)	Memory
6. Self	F-organizing network also known as
a)	Back Propagation network
b)	Training free counter propagation network
c)	Propagation network
d)	Learning Algorithm
7. A p	rogram is written in fortran for cluster formation
a)	Vecquent
b)	Vecant
c)	Vector
d)	Quantization
8. Kin	Kyungyoun Proposed an method using ART2 architecture.
a)	Pattern Recognition
b)	Chinese Recognition method
c)	Character Recognition
d)	Speech recognition
9. A	of a set A is the set of all possible subsets that are derivable from A
includ	ing null set
a)	Power set
b)	Impower set
c)	Rational set

d) Irrational set	
10. In case of => operator, the proposition occurring before the "=>" symbol is called	
a) antecedent	
b) consequent	
c) conjunction	
d) disjunction	
$11.p^{\gamma}(x)$ to denote the estimated probability of theclass for instance x.	
negative	
positive	
both negative and positive	
either positive or negative	
12. When the simulated annealing process is applied w the discrete Hopfield nernrork, it	
becomes	
Cauchy machine	
Boltzmann machine	
Gausian machine	
Correlation network	
13. The of an organism is measured by means of success of organism in life	
Strength	
fitness	
Gene	
Chromosome	
14. In, inversion was applied with specified inversion probability p to each	1
new individual when it is created.	
Discrete	
Continuous	
Mass inversion	
Variance	
15. Theory of Generalization doesn't depends on	
Bias and Variance Dilemma	
Vapnic-Chervonenkis Dimensions	
Training and Testing Curves	
Case Study of Polynomial Curve Fitting	
16 is not the process of defuzzification	
Centroid method	
Center of largest area	
Center of sums	
Min membership principle	
17exhibit non-linear functions to any desired degree of accuracy	
neuro –fuzzy	
neuro-genetic	
fuzzy –genetic	
Genetic Algorithm	
18. Recurrent network architectures adopting	
hebbian learning	
supervised learning	
unsupervised learning	
reinforced learning	

19.	may be defined as the process of reducing a fuzzy set into a crisp set or
to c	convert a fuzzy member into a crisp member.
	Fuzzification
	Defuzzification
	Linguistic Variable
	Fuzzy Qualifiers
20.	is not the Fuzzy preposition.
	Fuzzy predicate
	Fuzzy qualifier
	Fuzzy quantifier
	Fuzzy rule base
21.	BAM was introduced by
a)	Cruz
b)	Stubberd
c)	Kosko
d)	Rosenbatt
22.	The algorithm which computes operator M is known as
a)	Memory algorithm
b)	Recording Algorithm
c)	Transfer Algorithm
d)	Computing algorithm
22	Deal and East to accord to
	Real coding is used by
a)	Recognition of characters Fabric defect identification
b)	
c)	Optimization Classification of soil
d)	Classification of son
24.	ART stands for
a)	Adaptive Resonance Theory
b)	Adaptive Recent Theory
c)	Adapt Resonance Theory
d)	Adaptive Retail Theory
25	A program is written in fortran for cluster formation
a)	Vecquent
b)	Vecant
c)	Vector
d)	Quantization