

تطوير تطبيقات نظم المعلومات 9:11 6/6/2021 الأحد أ.د/تيسير حسن

Faculty of Computers & Information, Assiut University 4th Level Final Exam Duration: 2 hours

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عائشة محمدصفوت عبدالرحمن محمد

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aPDwM1
8. Examples of Big Data include: (2 Points)
(2 Points)
(2 Points) a. Clinical data
(2 Points) a. Clinical data b. Communications companies
(2 Points) a. Clinical data b. Communications companies c. Personal data
(2 Points) a. Clinical data b. Communications companies c. Personal data
 (2 Points) a. Clinical data b. Communications companies c. Personal data d. 100 Kb files 9. When obtaining raw data in IH step, a person

c. Evaluates the data structure
d. Obtain infrastructure to perform analysis
10. Parsing is defined as: (2 Points)
a. The process step that takes the un-structured or a semi-structured document and imposes a structure for the downstream analysis.
b. A semistructured data
c. A quasi-structured data
d. A well-defined dataset
11. Hadoop has the following advantages EXCEPT: (2 Points)
a. Expensive machines
b. Notion of jobs
c. Any data will fit in any format
d. Scalable and flexible
12. The main characteristics of Hadoop include: (2 Points)
a. Sequential computation framework
b. Fault-tolerant data storage, parallel computation framework, and job coordination
c. Fault-tolerant
d. One master and no slaves

13. Veracity means: (2 Points)
a. Clear data
b. Unclear data
c. Precise data
d. Clean data
14. Vulnerability is defined as: (2 Points)
a. Security
b. Security and privacy concerns associated with data processing
c. Privacy
d. Availability
15. A major characteristic of Cloud computing is: (2 Points)
a. On-demand self-service
b. No services are allowed
c. Social media
d. Communication services
16. "Utility computing" means: (2 Points)
a. Pay-as-you-go model

b. Textual data
c. Semi-structured data
d. Structured data
17. Velocity of the data means: (2 Points)
a. Uncertainty of the data
b. Real-time data
c. Data is being generated fast and need to be processed fast
d. Online transaction processing
18. Sentiment analysis is used to identify: (2 Points)
a. Positive/Negative opinions on product reviews such as Samsung
b. Positive/Negative/Neutral of specific topic people are talking about
c. Predicting opinions during the next five years on Education
d. All of the above
19. The probability of failure increases with: (2 Points)
a. Increasing the number of machines
b. Decreasing the number of machines
c. the number of machines does not make a difference
d. None of the above

20. An analytics sandbox is: (2 Points)
a. A workspace that is typically isolated from production applications and warehouse environments.
b. IT facilitates data exploration that interfere with the production environment.
c. Is not crucial to the data scientist in that it facilitates the analytics lifecycle activities.
d. Association rule mining
21. The goals of communicate results phase in big data life cycle include: (2 Points)
a. Interpret the results
b. Compare IH from phase 1
c. Summarize findings depending on audience
d. All of the above
22. Focus of data analytics life cycle is: (2 Points)
a. On business intelligence
b. On data science projects
c. On stakeholders
d. Communicating results
23. The goal of discovery phase in big data analytics life cycle is to determine: (2 Points)
a. If we have enough information to draft an analytic plan and share for peer review

b. Data quality issues
c. Verify the results
d. Assure model accuracy
24. Hadoop deals with: (2 Points)
a. Data schema
b. Tables and relations
c. Flat files in any format
d. Data fragmentation
25. Variability of the data is defined as: (2 Points)
a. Inconsistencies with the data
b. Consistencies with the data
c. Privacy
d. Network security
26. Volatility of the data is defined as: (2 Points)
a. Spatial data
b. Geo-locations
c. Time-series data
d Temporal validity and fluency of the data

27. Big data characteristics include: (2 Points)
a. Data volume
b. Variety
c. Veracity
d. All of the above
28. A corpus is: (2 Points)
a. Tweets
b. A large collection of text documents.
c. A dictionary of terms
d. A collection of images
29. MapReduce is responsible for: (2 Points)
a. Storage
○ b. SQL
c. Computation
d. Columnar database
30. Resource pooling is: (2 Points)
a. An essential characteristic of database management system
h Data indexing

c. An essential characteristic of cloud computing
d. Big data management
21 A data colombiat key activities are:
31. A data scientist key activities are: (2 Points)
a. Reframe business challenges as well as data analytics
b. Replicate the data
c. Analyze business drivers
d. Draw different scenarios of the data
32. The following resources are required to complete the discovery phase: (2 Points)
Available technology
b. Available data
c. People for the working team
d. All of the above
33. In the Initial Hypothesis step, the team compare its answers with the outcome of an experiment to: (2 Points)
a. Analyze data
b. Visualize data
c. Generate additional possible solutions to problems
d. Communicate with sponsors

34	The following statements about the operationalize phase of the big data analytics life cycle are true EXCEPT: (2 Points)
	a. Assess the benefits
	b. Run a pilot
	c. Model execution in production environment
	d. Quantify the business value
35	. HDFS does the following to solve the problem when the end machines are too expensive: (2 Points)
	a. Run on brands hardware
	b. Run on commodity hardware
	c. Replicate the data
	d. Tune the data
36	. Quasi-structured data are: (2 Points)
	Text data
	b. Relational tables
	c. Textual data with erratic data formats, such as Web clickstream data
	d. None of the above

37. Initial Hypothesis step involves: (2 Points)

a. Analyzing ideas
b. Visualizing ideas
c. Applying R to visualize ideas
d. Forming ideas that the team can test with data
38. Major challenges of text analysis are: (2 Points)
a. High dimensionality and unstructured text
b. High dimensionality and structured text
c. Unstructured text and volume
d. Uncertainty and velocity
39. Volatility is defined as: (2 Points)
a. Temporal validity
b. Data currency
c. Availability
d. All of the above
40. Developing a set of Initial Hypothesis is: (2 Points)
a. A key facet of the discovery phase
b. A key facet of the model building phase
c. A key facet of the model planning phase
d. A key facet of the operationalize phase

41. Obtaining the objective of the analytics determines: (2 Points)			
a. The preprocessing phase			
b. The model planning phase			
c. The model building phase			
d. The data attributes you need			
42. Role of the data engineer is responsible for: (2 Points)			
a. Core business of the project			
b. Deep technical skills to assist tuning technical skills for data management			
c. Configures database management			
d. Analytical techniques			
43. The objective of the Reduce function is: (2 Points)			
a. To apply a recommender system on the mapper data			
b. To apply association rule mining on the mapper data			
c. To combine the input from the Mapper			
d. To visualize the mapper data			
44. HDFS works by: (2 Points)			

a. A Name Node and a Data Node

b. A Name Node
c. A Data Node
d. Block mappings
45. Data Virtualization allows: (2 Points)
a. A specific person to access machines
b. Any application access all data irrespective of format
c. A network administrator to access a network
d. All of the above
46. Heterogeneous data, such as clinical and x-rays, is required in Big data analytics in healthcare in order to: (2 Points)
a. Provide better decision making for the patient
b. Provide visualization of each part of the data
c. Apply big data analytics life cycle
d. All of the above
47. Tokenization is defined as: (2 Points)
a. The task of lemmatization
b. The task of separating (also called tokenizing) words from the body of text
c. The task of deleting "the"
d. The task of social media analysis

48. Mapper and Reducers consume and produce: (2 Points)
a. Relational tables only
b. <key,value> pairs</key,value>
c. Identifier
d. <key> value</key>
49. In the Operationalize phase, you perform the following: (2 Points)
a. Run a pilot
b. Assess the stakeholders
c. Provide pre-final deliverables
d. None of the above
50. In the model building phase, you perform the following: (2 Points)
a. Interpret the results
b. Answer the question is model accurate enough
c. Identify key findings
d. Quantify business values
51. Regular expression is a technique for: (2 Points)
a. Clustering

b. Classification
c. Finding words, strings or particular patterns in the text
d. Association rule mining
52. Service-based view means: (2 Points)
a. Specific brand of a machine
b. Specific machine configuration
c. Everything as a service, such as "software as a service"
d. Velocity
53. Presentation for Project Sponsors contains: (2 Points)
 a. Easy visuals for the presenter to explain and for the viewer to grasp.
b. Changes to business processes and reports.
c. Technical graphs (such as Receiver Operating Characteristic [ROC] curves, density plots, and histograms)
d. Technical Reports
54. HDFS does the following to solve the problem when the data is too big to store on one machine: (2 Points)
a. Stores the data on a server
b. Stores the data on multiple machines
c. Stores the data on clients only
d. All of the above

55.	Performing data quality exists in: (2 Points)
	a. Model building phase
	b. Operationalize phase
	c. Communicate results phase
	d. None of the above
56.	. The objective of the Reduce function is: (2 Points)
	a. To combine the input from the Mapper
	b. To apply a recommender system on the mapper data
	c. To apply association rule mining on the mapper data
	d. To visualize the mapper data
57.	. The goals of model building phase in big data life cycle include: (2 Points)
	a. Develop datasets for training and testing and production purposes.
	b. Get the environment you can for building models and workflows
	o c. a &b
	d. Visualize results

password.

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