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### UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

#### **End Semester Examination, April 2018**

Program:B. Tech CSE (BFSI)Semester –VIIISubject (Course):Analytics in Banking IndustryMax. Marks: 100Course Code: CSIB424Duration: 3 Hrs

No. of page/s: 3

# Section A (This section has 5 questions attempt all) (Q1.1 to 2.4 each sub question is objective and carry 1 mark each)

1 1 What are the farmeter of ACHO DI	1 2 W/L: -1, f-11: - 1 / 1
1.1 What are the four stages of ASUG BI	<b>1.2</b> Which following documents are to be
Maturity Model?	included in the BI Vision document?
a) Dictatorship, Anarchy, Democracy and	a) Logical Data Architecture and Logical
Collaboration	Technology Architecture
<b>b</b> ) Infant, Child, Young adult and Adult	<b>b</b> ) Logical BI Architecture and Logical
c) Analytical, Consultative, Experimental	Infrastructure Architecture
and Strategic	c) b only
<b>d</b> ) Informative, Elaborative, Exhaustive and	<b>d</b> ) a & b both
Innovative	
<b>1.3</b> Proof of Concept includes which of the	<b>1.4</b> What are the two types of BI reports?
following?	a) Development intelligence report and
a) Creating Logical System design and	Report documents.
database design	<b>b</b> ) Development documents and analytical
<b>b)</b> Creating Logical database design and	documents
data models	c) Analytical reports and Operational reports
c) Creating Logical System design,	<b>d</b> ) Intelligence reports and Operational reports
database design and data models	
d) Creating Logical System design and data	
models	
<b>2.1</b> Which of the following are Chart types?	<b>2.2</b> R-J performance score card defines
a) PDF, Excel and Line charts	articulating business strategy as -
<b>b)</b> Line, Images and Area charts	a) Customer Sales, Customer Feedback and
c) Columns/Bar, Line and Scatter/Bubble	Customer acquisition
d) Pie/Doughnut, Area and Images	<b>b</b> ) Business model, implementation and
u) i ic/Dougillut, Area and illages	evaluation
	c) Market opportunity assessment, market
	capturing and market making
	d) Implementation, Change management and
	customer feedback

<b>2.3</b> What are typical two types of	<b>2.4</b> Two types of BI expanded a	analytics are			
organizational culture?	a) Descriptive analytics and tex	kt mining			
a) Autocratic entrepreneurial	<b>b</b> )Text and image analytics				
<b>b</b> ) Autocratic and democratic	<b>c</b> ) Predictive and descriptive				
c) Innovative and entrepreneurial	<b>d</b> ) Predictive analytics and text	mining			
<b>d</b> ) Automatic and entrepreneurial					
True or False:					
<b>3.1.</b> BI design is all about knowing about your		(1 Marks)			
<b>3.2.</b> Business intelligence values are obtained	without the help and managemen	•			
Stakeholders. True/False (1 Marks)					
<b>3.3.</b> A fact table typically has two types of col					
are foreign keys to dimension tables True/Fals		(1 Marks)			
<b>3.4.</b> A vertical bar chart is sometimes called a	column bar chart True/False	(1 Marks)			
<b>4.1.</b> The basis of Business Intelligence is not of	lata. True/False	(1 Marks)			
<b>4.2.</b> A Scatter (XY) Plot has points that show	the relationship between two sets	s of data.			
True/False		(1 Marks)			
<b>4.3.</b> Authentication defines the level of access	that the user has to the functional	_			
content. True/False		(1 Marks)			
<b>4.4.</b> Sizing a BI deployment requires a reasonate	able degree of planning. True/Fal	lse (1 Marks)			
<ul> <li>5.2. A scorecard is a specific dashboard includes usually used on an operational level. True/False</li> <li>5.3. Alerts are Used to call the attention of the predefined limit. True/False</li> <li>5.4. Multi-dimensional data cubes is built by the market. True/False</li> </ul>	ding Key Performance Indicators se a user to a specific item that has retaking data from all the similar but	(1 Marks) (KPIs), (1 Marks) eached a (1 Marks)			
Question 6, 7 and 8 are compulsory	ion B 7. Attempt any one question 9 (	OR 10)			
Fill in the blanks:	(8 X 1.25 marks=	•			
6.1. Engagement process begins with me					
6.2. The BI framework combines data control,, statistics integration, facts					
quality, end person data delivery, information security, etc.					
6.3is a conceptual, abstract design		-1			
6.4. The most commonly used diagram repres	enting the project schedule is a _	cnart or			
chart.	os of quantitativa assassment usas	1 for			
6.5 are parameters or measures of quantitative assessment used for					
measurement, comparison or to track performance or production.  6.6. Scorecards are designed to measure progress towards meeting					
dashboards are only designed forof specific activities.					
6.7. In a, the arc length of each sl	or specific activities.	angle and			
area), is proportional toit represe		angie and			
area), is proportional toit represe	111.5.				

6.8. Data series is a collection of related data points and graph.	as a
	(5 Marks) (5 Marks)
e i	(10 marks) (10 Marks)
	(5 Marks) nd access (5 Marks)
$\frac{Section C}{(Attempt both questions in section C)}$	
11.1 Draw and discuss Kaplan-Norton balanced scorecard.  Answer one out of 11.2&11.3:  11.2 Analyze limitations to the K-N balanced scorecard.	(12 Marks)
OR 11.3 List the elements which are common to any graph.	(8 Marks)
12. Draw ASUG business intelligence maturity model.	(20 Marks)

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Tion of page 50 C
Section A (This section has 5 questions attempt all
(Q1.1 to 5.4 each sub question carry 1 mark each)
Fill in the blanks:
1.1. Engagement process begins with meetings and initial with the customer
1.2. The BI framework combines data control,,, statistics integration, facts
quality, end person data delivery, information security, etc.
1.3is a conceptual, abstract design
1.4. The most commonly used diagram representing the project schedule is a chart or chart.
2.1 are parameters or measures of quantitative assessment used for
measurement, comparison or to track performance or production.
2.2. Scorecards are designed to measure progress towards meeting,
dashboards are only designed forof specific activities.
2.3. In a, the arc length of each slice (and consequently its central angle and
area), is proportional toit represents.
2.4. Data series is a collection of related data points and as a
graph.
True or False:
<b>3.1.</b> BI design is all about knowing about your customers. True/False (1 Marks)
<b>3.2.</b> Business intelligence values are obtained without the help and management of key
Stakeholders. True/False (1 Marks)
<b>3.3.</b> A fact table typically has two types of columns: those that contain facts, and those that
are foreign keys to dimension tables True/False (1 Marks)
<b>3.4.</b> A vertical bar chart is sometimes called a column bar chart True/False (1 Marks)
<b>4.1.</b> The basis of Business Intelligence is not data. True/False (1 Marks)
<b>4.2.</b> A Scatter (XY) Plot has points that show the relationship between two sets of data.
True/False (1 Marks)
<b>4.3.</b> Authentication defines the level of access that the user has to the functionality and
content. True/False (1 Marks)
<b>4.4.</b> Sizing a BI deployment requires a reasonable degree of planning. True/False (1 Marks

**5.1.** Radar Chart shows plotting multi-dimensional sets of data using several axis, e.g. compare different aspects of stock like price, volume, price to earning ratio, etc. True/False

(1 Marks)

- **5.2.** A scorecard is a specific dashboard including Key Performance Indicators (KPIs), usually used on an operational level. True/False (1 Marks)
- **5.3.** Alerts are Used to call the attention of the user to a specific item that has reached a predefined limit. True/False (1 Marks)
- **5.4.** Multi-dimensional data cubes is built by taking data from all the similar businesses in the market. True/False (1 Marks)

## **Section B** (Q6 to 8 are compulsory and attempt one question out or 9 &10)

<b>6.1</b> What are the four stages of ASUG BI	<b>6.2</b> Which following documents are to be
Maturity Model?	included in the BI Vision document?
a) Dictatorship, Anarchy, Democracy and	a) Logical Data Architecture and Logical
Collaboration	Technology Architecture
<b>b</b> ) Infant, Child, Young adult and Adult	<b>b</b> ) Logical BI Architecture and Logical
c) Analytical, Consultative, Experimental	Infrastructure Architecture
and Strategic	c) b only
<b>d</b> ) Informative, Elaborative, Exhaustive and	<b>d</b> ) a & b both
Innovative	
<b>6.3</b> Proof of Concept includes which of the	<b>6.4</b> What are the two types of BI reports?
following?	a) Development intelligence report and
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database design	<b>b</b> ) Development documents and analytical
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data models	c) Analytical reports and Operational reports
c) Creating Logical System design,	<b>d</b> ) Intelligence reports and Operational reports
database design and data models	
d) Creating Logical System design and data	
models	
<b>6.5</b> Which of the following are Chart types?	<b>6.6</b> R-J performance score card defines
a) PDF, Excel and Line charts	articulating business strategy as -
<b>b</b> ) Line, Images and Area charts	a) Customer Sales, Customer Feedback and
c) Columns/Bar, Line and Scatter/Bubble	Customer acquisition
d) Pie/Doughnut, Area and Images	<b>b)</b> Business model, implementation and evaluation
	c) Market opportunity assessment, market
	capturing and market making
	<b>d</b> ) Implementation, Change management and
	customer feedback
<b>6.7</b> What are typical two types of	<b>6.8</b> Two types of BI expanded analytics are
organizational culture?	a) Descriptive analytics and text mining
a) Autocratic entrepreneurial	<b>b</b> )Text and image analytics
<b>b)</b> Autocratic and democratic	c) Predictive and descriptive
c) Innovative and entrepreneurial	<b>d</b> ) Predictive analytics and text mining

#### **d**) Automatic and entrepreneurial

(8X1.25=10 marks)

7. Explain and show diagrammatically any three:

List report, Crosstab report, Chart report, Map report.

**(10 Marks)** 

8. Explain seven types of Chart types. Also give example images.

(10 Marks)

9. Draw and discuss Report authoring task flow

(10 Marks)

OR

10 List the elements which are common to any graph. Explain Drilling in report.

(10 Marks)

#### **Section C**

(Question 11 and 12.1 are compulsory. Out of 12.2 &12.3 attempt only one question)

11. Draw ASUG business intelligence maturity model.

**(20 Marks)** 

- 12.1 Discuss and diagrammatically show Rayport-Jaworski performance dashboard and strategy framework. (12 Marks)
- 12.2 Also List Six critical steps.

OR

12.3Define Metrics. Branding and implementation metrics focus on? (8 Marks)