UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Term Examination- December, 2018

Program/course: BBA (DM)   Semester – : V
Subject: Datamining & Business Intelligence   Max. Marks: 100
Code: BBDM105   Duration   : 3 Hrs
No. of page/s:5

Instructions: Section A is of 20 Marks, Section B is of 20 Marks, Section C is of 30 Marks, Section D is of 30 Marks (Section D is compulsory)

SET1
SECTION A
Select the correct answer and write True and False wherever it is applicable

S. No.		Marks	
1	Each excel file is called a workbook because a. It can contain text and data b. It can be modified c. It can contain many sheets including worksheets and chart sheets d. You have to work hard to create it	**4**	**CO1**
2	Which types of charts can excel produce? a. Line graphs and pie charts only b. Only line graphs c. Bar charts, line graphs and pie charts d. Bar charts and line graphs only	**4**	**CO1**
3	How are data organized in a spreadsheet? a. Lines and spaces b. Layers and planes c. Rows and columns d. Height and width	**4**	**CO1**
4	A function inside another function is called a ….. function. a. Nested b. Round c. Sum d. Text	**4**	**CO1**
5	You can activate a cell by a. Pressing the Tab key b. Clicking the cell c. Pressing an arrow key d. All of above	**4**	**CO1**

Q	1. What is the significance of Business Intelligence?	**5**	**CO1,**
Q	2. What is difference between VLookup and HLookup	**5**	**CO1,**
Q	3. What is difference between CountA and Counblank	**5**	**CO1,**
Q	4. How MS Excel can help in datamining.	**5**	**CO1,**
Q	5. What is the difference between autosum and sumif	**5**	**CO1**

Section-C
(To be done in Excel Sheet and Save the sheet with your roll no.)

Q1	Refer to the following table Part A and work out the countif and countifs function as given in Part B	**10**	**CO2**

Table : PART A

Year	Player	Team	Position
2015	Dallas Keuchel	Houston	SP
2014	Corey Kluber	Cleveland	SP
2013	Max Scherzer	Detroit	SP
2012	David Price	Tampa Bay	SP
2011	Justin Verlander	Detroit	SP
2010	Felix Hernandez	Seattle	SP
2009	Zack Greinke	Kansas City	SP
2008	Cliff Lee	Cleveland	SP
2007	CC Sabathia	Cleveland	SP
2006	Johan Santana	Minnesota	SP
2005	Bartolo Colon	LA Angels	SP
2004	Johan Santana	Minnesota	SP
2003	Roy Halladay	Toronto	SP
2002	Barry Zito	Oakland	SP
2001	Roger Clemens	NY Yankees	SP
2000	Pedro Martinez	Boston	SP
1999	Pedro Martinez	Boston	SP
1998	Roger Clemens	Toronto	SP
1997	Roger Clemens	Toronto	SP
1996	Pat Hentgen	Toronto	SP
1995	Randy Johnson	Seattle	SP

1994	David Cone	Kansas City	SP
1993	Jack McDowell	Chi White Sox	SP
1992	Dennis Eckersley	Oakland	RP
1991	Roger Clemens	Boston	SP
1990	Bob Welch	Oakland	SP
1989	Bret Saberhagen	Kansas City	SP
1988	Frank Viola	Minnesota	SP
1987	Roger Clemens	Boston	SP
1986	Roger Clemens	Boston	SP
1985	Bret Saberhagen	Kansas City	SP

Part B

COUNTIF		
Player	Roger Clemens	# of awards
	Count (1985-2015)	
	Count (1985 - 1989)	
	Count (1990 - 1999)	
	Count (2000 - 2009)	
COUNTIFS		
Player	Pedro Martinez	# of awards
	Count (1985-2015)	
	Count (1985 - 1989)	
	Count (1990 - 1999)	
	Count (2000 - 2009)	
	Team name 'Houston'	# of awards
	Count (1985-2015)	
	Count (1985 - 1989)	
	Count (1990 - 1999)	
	Count (2000 - 2009)	

Write if statement to assign grades to students in the following Table 1

Table 1

Criteria				
	<40	F		
	40-55	D		
	56-65	B		
	65-90	A		
	Above	A++		
		Name of students	Marks	Grades
		Ahmed	45	
		Shyam	76	
		Nile	90	
		Priyank	60	

Q2   5   CO2

		Sarita		71			

Q3	In the following table, you have a shopping list of equipment and want to know how often you sale CD-ROM. Calculate the no of times the CD is sold.	5	CO2

Q4	1. Create a small data and show the VLoop and HLookup functions in the sheet.	10	CO2

SECTION-D

To be done in Excel Sheet

Q1	With given data sheet create a meaningful dashboard. (Will be distributed in LAB)	30	CO2

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SET2
SECTION A
Select the correct answer and write True and False wherever it is applicable

S. No.		Marks	

1	Each excel file is called a workbook because
	
	  a. It can contain text and data
	  b. It can be modified
	  c. It can contain many sheets including worksheets and chart sheets
	  d. You have to work hard to create it
		4	**CO1**

2	Which types of charts can excel produce?
	  a. Line graphs and pie charts only
	  b. Only line graphs
	  c. Bar charts, line graphs and pie charts
	  d. Bar charts and line graphs only
		4	**CO1**

3	How are data organized in a spreadsheet?
	  a. Lines and spaces
	  b. Layers and planes
	  c. Rows and columns
	  d. Height and width
		4	**CO1**

4	A function inside another function is called a ….. function.
	  a. Nested
	  b. Round
	  c. Sum
	  d. Text
		4	**CO1**

5	You can activate a cell by
	  a. Pressing the Tab key
	  b. Clicking the cell
		4	**CO1**

	c. Pressing an arrow key d. All of above				

<table>
<tr><td colspan="6" align="center">SECTION B
(ANY FOUR TO BE ATTEMPTED)</td></tr>
<tr><td>Q</td><td colspan="3">6. What is the significance of Business Intelligence?</td><td>5</td><td>CO1,</td></tr>
<tr><td>Q</td><td colspan="3">7. What is difference between VLookup and HLookup</td><td>5</td><td>CO1,</td></tr>
<tr><td>Q</td><td colspan="3">8. What is difference between CountA and Counblank</td><td>5</td><td>CO1,</td></tr>
<tr><td>Q</td><td colspan="3">9. How MS Excel can help in datamining.</td><td>5</td><td>CO1,</td></tr>
<tr><td>Q</td><td colspan="3">10. What is the difference between autosum and sumif</td><td>5</td><td>CO1</td></tr>
</table>

Section-C
(To be done in Excel Sheet and Save the sheet with your roll no)

Q1	Refer to the table below Part A and execute the Questions in Part B				CO2

10252	Camembert Pierrot	27.2	40	0
10253	Gorgonzola Telino	10	20	0
10253	Chartreuse verte	14.4	42	0
10253	Maxilaku	16	40	0
10254	Guaraná Fantástica	3.6	15	0.15
10254	Pâté chinois	19.2	21	0.15
10254	Longlife Tofu	8	21	0
10255	Chang	15.2	20	0
10255	Pavlova	13.9	35	0
10255	Inlagd Sill	15.2	25	0
10255	Raclette Courdavault	44	30	0
10256	Perth Pasties	26.2	15	0
10256	Original Frankfurter grüne Soße	10.4	12	0
10257	Schoggi Schokolade	35.1	25	0
10257	Chartreuse verte	14.4	6	0
10257	Original Frankfurter grüne Soße	10.4	15	0
10258	Chang	15.2	50	0.2
10258	Chef Anton's Gumbo Mix	17	65	0.2

10258	Mascarpone Fabioli	25.6	6	0.2
10259	Sir Rodney's Scones	8	10	0
10259	Gravad lax	20.8	1	0
10260	Jack's New England Clam Chowder	7.7	16	0.25
10260	Ravioli Angelo	15.6	50	0
10260	Tarte au sucre	39.4	15	0.25
10260	Outback Lager	12	21	0.25
10261	Sir Rodney's Scones	8	20	0
10261	Steeleye Stout	14.4	20	0
10262	Chef Anton's Gumbo Mix	17	12	0.2

Questions to be executed Part B

1. Highlight product(s) with cheapest price
2. Highlight product(s) with highest price
3. Calculate the total quantity of the product with Order ID=10260
4. Count the products with Order ID=10255
5. Count the products with their unit prices > 40 and their quantities >30
6. Calculate the average of unit prices of products with Order ID =10255

**5
5
5
5
5
5**

CO2

SECTION-D
(To be done in Excel Sheet)

Refer to the table below Part A and execute the Questions in Part B

Part A

Q1

NAME English	Sex	Assignment+ Homework	Mid-term	Final	Total	Status	Grade		CO2
CHAN MAKARA	M	12	10.5	27					
CHEA SOPUTHEA	M	13	11	29					
HENG PROSOER	M	13	13						
KIEV SOK	M	12	10	28					

KONG OUDOM	M	9	8	24						
KOSOM SOMNOP	M	12.5	10							
LAO BUNNA	M	12	13	25						
LAO SEYLA	M	12	10.5	33						
MEAN DARA	M		11							
MOM PUTH	M	11	8	34						
OEUN SENGHAK	M	11	11	0						
PA CHANDARA	M	11	11	15						
PAO VANNA	M	10	11							
PEO CHANTHOU	M	11	7.5	26						
PIDOR MERCREDY	M	13	11	28						
RITHY VANSAKD	M	13	14.5	44						
SIN SEYLA	M	12	9	25						
SOENG PHEARUM	M	12.5	13	27						
SRY SOKHAK	M	11	11.5							
SUN PANHA	M	13	9							
TORL SA	M	12	11.5	27						
UN RITHPHIRUN	M	12	9	37						
CHHUN PUTHA	M	13	10	28						
CHUM SOKUNTHEA	F	12	8	27						
HOR SOKHOM	M		7.5	17						
IM THON	M		7.5	3						
KOUCH MEY	F	13	12.5	31						
MENG PISETH	M	11	9	26						
NGET BUTHAN	M	13	9.5	34						
OUCH SOPHANA	M		11.5							
OUM SELAVICHET	M	12	9	28						
PHLOOK RADET	M	13	10	32						
PHON SOPHAY	M	12	9	18						
PRAK VANNY	M	13	13	38						
SEA SEYHA	M									
SNGOUN SOVANN	M	12	10	20						
SOK SAMNANG	F									
SON BUNTHAN	M	13	9	18						
NOU YOEUNG	M	9	7.5	20						
SANG PONLORK	M	9	8	3						

PART B

1. Show students who have final scores greater than 30 — **3**
2. Show students who have final scores less than 15 — **3**
3. Show students with their names starting with P letter — **3**
4. Show female students who have final score greater than 20 — **3**
5. Show male students who have final score greater than 20 — **3**
— **3**

		6. Show only Male students	**3**	
		7. Show only students who do not have final scores	**3**	
		8. Show only students who do not have assignment scores	**3**	
		9. Change the any text Colour to Blue.		
		10. Calculate Total , Status (Pass or Fail where Total is above 33) and Grades as per your grading system	**3**	