Name:
Enrolment No:

UPES
UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM & ENERGY STUDIES

End Semester Examination (Online) – July, 2020

Program: BBA (ABD, FBE) **Semester: II**
Subject/Course: Spreadsheet in Business **Max. Marks: 100**
Course Code: DSQT1012 **Duration: 3 Hours**

IMPORTANT INSTRUCTIONS

1. *The student must write his/her name and enrolment no. in the space designated above.*
2. *The questions have to be answered in this MS Word document.*
3. *After attempting the questions in this document, the student has to upload this MS Word document on Blackboard.*
4. ***Attempt any five questions. Each question carries equal marks.***
5. ***After finding solution of the provided questions, students need to paste their result in the provided word sheet and upload this word file along with the Excel file with complete solution.***

		Marks	COs
Q.1		20	CO1

	A	B	C	D	E
1	Movie	Budget(in Rs.)	World Gross (in Rs.)	Profit	Flop or Not
2	Spider Man 3	258,000,000	887,436,184		
3	King Kong (2005)	207,000,000	553,080,025		
4	Spider Man Returns	204,000,000	391,081,192		
5	Spider Man-2	200,000,000	784,024,458		
6	Titanic	200,000,000	1,835,400,000		

Write a function to calculate whether each movie was a flop or success. Use the following criteria:
If the profit was less than 100,000,000 then the movie is a flop.
Otherwise movie is a success.

Q.2 — 20 — CO2

The provided table indicate the quantity of different colour fruit purchased by Ram.

	A	B	C
1	Apple	Green	NA
2	Mango	Yellow	110
3	Mango	Green	300
4	Apple	Red	200
5	Apple	Green	NA
6	Mango	Green	210
7	Apple	Red	NA
8	Mango	Green	300
9	mango	Yellow	110
10	Orange	Yellow	135

	(i) Write an appropriate function to count cells having numerical values in Column C. (ii) Write an appropriate function to count cells having all values (Numerical, Qualitative) in Column C. (iii) Write an appropriate function to find the total quantity of yellow fruits. (iv) Write an appropriate function to find the total quantity of Green Mango. (v) Write an appropriate function to count the number of individual fruits.		
Q.3		20	CO3

	A	B	C	D
1	**Footballer**	**Salary**	**Yellow Cards**	**Action**
2	Archit	85000$	8	
3	John	87,500$	5	
4	Michel	90000$	35	
5	Nigel	89500$	17	
6	Christopher	76500$	22	
7	David	47000$	30	
8	Denial	36000$	7	
9	Ronaldo	78400$	12	
10	Jimmy	783600$	2	
11	Vivek	67800$	10	

Write the function in Excel based on the following conditions:

(i) If the number of yellow cards is greater than or equal to 30, then the fine is 10% of their salary.
(ii) If the number of yellow cards is greater than or equal to 10, then the fine is 2% of their salary.
(iii) If the number of yellow cards is less than 10, then insert in the text "No Action" in cell.
(iv) Find the Average salary of the footballer per month.

Q.4 — 20 — CO4

	A	B	C	D	E	F
1	**ROLL NO.**	**NAME**	**Total Marks**	**Marks Obtain**	**% of Marks**	**Division**
2	R194219012	SAGAR	500	275		
3	R194219007	PRAJJWAL BAJPAI	500	365		
4	R194219015	YASHRAJ	500	405		
5	R194219016	ARCHIT KOHLI	500	200		
6	R194219001	BHAVIN GARG	500	180		
7	R194219006	ISHITA	500	300		
8	R194219010	PUSHPENDRA	500	220		
9	R194219019	HARSHIT	500	440		
10	R194219017	AMAN	500	290		
11	R194219021	CHIRAG	500	330		

	Fill the blank column and write a function in excel to calculate **a)** Number of students pass with first Division (>=65%) **b)** Number of students pass with second Division (>=50% and <65%) **c)** Number of students pass with third Division (<50%) **d)** Number of students pass with (>=75%)		
Q.5	<table><tr><th></th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th><th>G</th><th>H</th></tr><tr><td>1</td><td>Name</td><td>Statistics</td><td>Maths</td><td>Spreadsheets</td><td>Pass 3 Subjects</td><td>Pass at least 1 subject</td><td>Pass two Subjects</td><td>Pass at least 2 subject</td></tr><tr><td>2</td><td>Sejal</td><td>52</td><td>34</td><td>54</td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td>Mehak</td><td>69</td><td>58</td><td>45</td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td>Archit</td><td>72</td><td>62</td><td>12</td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td>Yash</td><td>23</td><td>45</td><td>60</td><td></td><td></td><td></td><td></td></tr></table> Write the function in excel based on below conditions, consider 35 marks as passing marks. (i) In the 4th column **"Pass 3 Subjects",** write a formula to display TRUE or FALSE. The result is True if the student pass all 3 subjects. (j) In the 5th column **"Pass at least 1 Subject"**, write a formula to display TRUE or FALSE. The result is True if the student pass at least 1 subject. (k) In the 6th column **"Pass 2 Subjects",** write a formula to display TRUE or FALSE. The result is True if the student pass 2 subjects. (l) In the 7th column **"Pass at least 2 Subject"**, write a formula to display TRUE or FALSE. The result is True if the student pass at least 2 subject.	20	CO2
Q.6	Copy the provided data set in Excel . <table><tr><th></th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th></tr><tr><td>1</td><td>**Usual Hours Worked**</td><td>**Education (yrs)**</td><td>**Yearly Earnings**</td><td>**Race**</td><td>**Sex**</td><td>**Region**</td></tr><tr><td>2</td><td>40</td><td>13</td><td>$44,000</td><td>White</td><td>Male</td><td>North</td></tr><tr><td>3</td><td>35</td><td>12</td><td>$12,000</td><td>White</td><td>Female</td><td>East</td></tr><tr><td>4</td><td>70</td><td>11</td><td>$54,000</td><td>White</td><td>Male</td><td>North</td></tr><tr><td>5</td><td>40</td><td>16</td><td>$48,200</td><td>Black</td><td>Male</td><td>west</td></tr><tr><td>6</td><td>38</td><td>12</td><td>$24,000</td><td>White</td><td>Male</td><td>south</td></tr><tr><td>7</td><td>60</td><td>18</td><td>$62,000</td><td>White</td><td>Female</td><td>North</td></tr><tr><td>8</td><td>40</td><td>13</td><td>$17,000</td><td>Black</td><td>Female</td><td>East</td></tr><tr><td>9</td><td>50</td><td>8</td><td>$25,000</td><td>Black</td><td>Male</td><td>North</td></tr><tr><td>10</td><td>40</td><td>11</td><td>$10,000</td><td>Black</td><td>Male</td><td>south</td></tr><tr><td>11</td><td>50</td><td>16</td><td>$65,000</td><td>White</td><td>Male</td><td>East</td></tr><tr><td>12</td><td>45</td><td>12</td><td>$30,000</td><td>White</td><td>Male</td><td>west</td></tr><tr><td>13</td><td>40</td><td>12</td><td>$25,000</td><td>White</td><td>Female</td><td>west</td></tr><tr><td>14</td><td>35</td><td>13</td><td>$15,400</td><td>White</td><td>Female</td><td>south</td></tr></table>	20	CO3

	15	40	13	$56,426	Black	Male	East	
	16	40	12	$21,087	Black	Male	west	
	17	40	13	$50,000	Black	Male	south	
	18	49	12	$11,500	Black	Female	North	
	19	60	12	$40,000	White	Male	East	
	20	60	18	$70,000	White	Female	west	
	21	45	18	$62,000	White	Male	south	
	22	40	12	$30,000	White	Male	North	

a) Create a single Pivot Table showing Average yearly earnings by Sex, Race and Region wise. (Paste the screenshot of Pivot Table in word file)
b) Create a single pivot chart for the Average usual hours worked by Sex, Race and Region wise. (Paste the screenshot of Pivot Chart in word file)

Q.7

There are two mutually exclusive projects A and B. The details of the project are given below

	A	**B**
Cash Outflow	2 Lakh	2 Lakh
Cash Inflow for 5 years		
1st year	50000	40000
2nd Year	40000	50000
3rd Year	60000	30000
4th Year	55000	60000
5th Year	30000	40000

Compute the following

a) NPV
b) IRR
c) MIRR
d) Based on NPV which project you will select. Comment on it.

Note: The discounted rate and reinvestment rate may be used as 15%.

20

CO4

ANSWERS