Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021

Course: Business Modelling with Spreadsheet Semester: 1 Program: MBA BA Time: 03 Hours

Cours	ourse code: DSBA7001 Max. Ma		rks: 100	
	SECTION A	(20 Marks		
1.	Each question in section A is a multiple-choice question with four answer choices. Read each question and choose the one best answer.			
i)	Which of the formula is guaranteed to return the phrase "You win!" if the value in cell B6 is 29?			
	A B C 1 77 13 50 2 83 52 23 3 46 37 39 4 22 65 79 5 85 91 14 6 63 29 10 a) =IF(OR(B6=29,C6=10),"You win!", "Try again!") b) =IF(AND(B6=29,C6=10),"You win!", "Try again!") c) =IF(B6=29, "Try again!", "You win!") d) None of the above	2	CO1	
ii)	Using the same data as Q 1.i), Which is the best formula to return the phrase "You win!" if both cell B6 equals 29 and cell C6 equals 10? a) =IF(B6=29,IF(C6=10,"You win!", "Try again!"), "Try again!") b) =IF(OR(B6=29,C6=10),"You win!", "Try again!") c) =IF(AND(B6=29,C6=10),"You win!", "Try again!") d) None of the above	2	CO1	
iii)	Using the same data as Q 1.i), Which formula returns the value of cell C5 if this value is greater than 5? a) IF(C5>5,C5,0) b) IF(C5=5,C5,0) c) Both a and b d) None of the above	2	CO1	

iv) How do you display current date in MS Excel? a) Date () b) Today () c) Now () d) Time () v) How do you wrap the text in a cell? a) Format cells font b) Format cells protection c) Format cells number d) Format cells alignment vi) What does COUNTA () function do? a) Counts cells having alphabets b) Counts empty cells c) Counts cells having number d) Counts non-empty cells vii) A circular reference is a) Geometric modeling tool b) A cell that points to a drawing object c) A formula that either directly or indirectly depends on itself	2 2	CO1
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c) A formula that either directly or indirectly depends on itself	1 _	
	2	CO1
d) Always erroneous		
viii) Which of the following is not true regarding Conditional Formatting?		
a) You can add more than one condition to check		
b) You can set condition to look for Bold and apply Italics on them		
c) You can apply Font border and pattern formats that meets the specified	2	CO1
conditions	2	CO1
d) You can delete any condition from Conditional Formatting dialog box if	•	
it is not required		
ix) Where can you change automatic or manual calculation mode in Excel?		
a) Double CAL indicator on status bar		
b) Go to File > Options > Formulas > Calculation Option – and mark the	<u>, </u>	
corresponding radio button	2	CO1
c) Both of above		
d) None of above		
x) The Name box on to the left of formula bar	+	
a) Shows the name of workbook currently working on		
b) Shows the name of worksheet currently working on		
c) Shows the name of cell or range currently working on	2	CO1
d) None of above	_	
u) Notic of above		
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			SECTION B	(20 Mar	ks)
This s	section has 4 Question	ns of 5 marks o	each.		
These	questions are short a	answer type.			
All th	e questions are comp	ulsory.			
2.	Write a short not	Write a short note on wildcard characters in excel with example.			
3.	If I order up to 5 through 1,200 un units, I pay \$2.30 Write a formula units purchased.	5	CO1, CO2		
4.	What do you understand by Cell reference in Excel explain with example.				CO1, CO2
5.	Write argument a 1. CONCAT 2. REPLACI 3. WORKDA 4. DATEDIF 5. PMT	ENATE E AY	example for following function:	5	CO1, CO2
			SECTION-C	(30 Mar	·ks)
	section has 3 Question		each, out of which first 2 Questions are compulsont any one.	ory.	
6.	After earning an MBA, a student will begin working at an \$80,000-per-year job on September 1, 2005. He expects to receive a 5 percent raise each year until he retires on September 1, 2035. If the cost of capital is 8 percent a year, determine the total present value of his before tax earnings.			9	CO3
7.	Write a formula to identify tax rates for income 2000, 24000, 60000. Given				
	Income Level	Tax rate			
	0-20000	10%		10	CO3
	20000-40000	20%			
	40000-80000	25%			
	80000-100000	30%			

8.	We want to pay off our mortgage in 15 years. The annual interest rate is 6 percent. The bank told us we can afford monthly payments of \$2,000. How much can we borrow? OR A computer manufacturing plant produces mice, keyboards, and video game joysticks. The per-unit profit, per-unit labor usage, monthly demand, and per-unit machine-time usage are given in the following table Mice Keyboards ks Profit/per unit ₹80 ₹110 ₹90 Labour 0.24 usage/unit 0.2 hours 0.3 hours hours Machine 0.04 0.04 time/unit hours 0.055 hours hours Monthly demand 15000 29000 11000 Each month, a total of 13,000 labor hours and 3,000 hours of machine time are available. How can the manufacturer maximize its monthly profit contribution from the plant?					10	CO3
SECTION-D						(30 Mar	,
	_		each, out of wh	ich Quest	ion 9 is compulsory and	d Questio	on 10 has
9.	Bank XYZ processes checks seven days a week. The number of workers needed each day of the week to process checks is 17,13,15,17,9,9,12 from monday to sunday. All bank employees work five consecutive days. Suppose Bank XYZ had 22 employees and that the goal was to schedule employees so that they would have the maximum number of weekend days off. How should the workers be scheduled?					15	CO4
10.	Create best, worst, model by varying t sales price. Use Exc	he values of Y	ear 1 sales, ann		sales of an automobile growth, and Year 1		
		Year 1 sales		s growth	Year 1 sales Price		
	Best case	₹ 20,000.00	20%)	₹ 10.00		
	Most likely case	₹ 10,000.00	10%)	₹ 7.50	15	COA
	worst case	₹ 5,000.00	2%		₹ 5.00	15	CO4
	OR For building a new house. The amount of money needed to borrow (with a 15-year repayment period) depends on the selling price of current house. The annual interest rate at the time of closing is unknown. Determine how monthly payments will depend on the amount borrowed and the annual interest rate? Use Sensitivity analysis Data Table.						