الجامعة الوطنية
National University
Science & Technology للعلوم والتكنولوجيا
كلية عمان البحرية الدولية
International Maritime College Oman

FINAL EXAM
FCOM003: INFORMATION TECHNOLOGY-III
Fall-T2 2024 - 25

Points of attention:

- For each question, the maximum earned points are specified in the question.
- Make sure your answers are correct and clear.
- All answers should be submitted to the Blackboard.
- Any cheating/copying may result in an instant failing of the examination.

Exam Duration:	**2 hours**
Instructor's Name:	**Ahlam B/Ranjit V**
Exam Date:	**11/02/2025**
Program:	**FND**

	40
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Student Information

Name: _____ ID: _____

Signature: _____

Invigilator

Initials: _____ ☐ Student ID checked

Time received: _____

Question 1. [14 Marks]

1. **Download** the **Final Exam workbook** that is provided in the Blackboard.
2. Open the first sheet **'Q.1'** in the **Final Exam workbook**. The table below shows a data of Al Sawari Hotel Room details with the booking rates per night.

	A	B	C	D	E	F	G	H	I	J	K	L
1	**Al Sawari Hotel**											
2	**Room Type**	**Category**	**Rate Per night (in USD)**	**Room booked per night**	**Available Rooms**	**Total Amount**	**Rooms Left**	**Total Amount with Service tax**		**Service Tax**		
3	Deluxe Room	Luxury	150	4	10					15%		
4	Standard Room	Budget	80	15	25							
5	Suite	Luxury	300	2	5							
6	Family Room	Mid-range	120	30	40							
7	Single Room	Budget	60	7	15							
8	Queens Room	Luxury	275	2	5							
9	Studio Plots	Budget	45	5	10							
10												
11												
12	Qu 5											
13	Qu 7											
14												

3. Apply the formatting to the **Column C and F** to **currency USD($)** with three decimal places. (2 marks)
4. Using the relative reference, calculate the **number of rooms left** in **column G** by typing a suitable formula. (2 marks)
5. Use a function to calculate the **total Amount** for all **'Luxury' room types**. Enter the answer in **cell B12**. (2 marks)
6. Using the absolute reference, Type a formula in H3 to calculate the **total amount after service tax** after adding a 15% service tax. Use autofill to complete it in H4 : H9. (3 marks)
7. Use a function to find the minimum amount in column H. Enter the answer in **cell B13**. (2 marks)
8. Create **a column chart** using columns **B and C** in the above table. The chart must have **a Title, Axis Titles and Legends**. (3 marks)

Question 2. [14 Marks]

1. Open the second sheet **'Q.2'** in the **Final exam workbook**.

   The table shows the top 15 wealthiest personalities in the world. Using the data on this sheet, perform the task given below.

	A	B	C	D	E	F	I	J
1	List of the World's Richest personalities							
2	Rank	Name	Age (in years)	Wealth ($billion)	Wealth per year	Tax		
3	1	Bernard Arnault & family	74	211	2.85		Qu 4	
4	2	Elon Musk	51	212	4.16		Qu 5	
5	3	Jeff Bezos	59	213	3.61		Qu 7	
6	4	Larry Ellison	78	214	2.74			
7	5	Warren Buffett	92	215	2.34			
8	6	Bill Gates	67	216	3.22			
9	7	Michael Bloomberg	81	217	2.68			
10	8	Carlos Slim & family	83	218	2.63			
11	9	Mukesh Ambani	65	219	3.37			
12	10	Steve Ballmer	67	220	3.28			
13	11	Gautam Adani	60	200	3.33			
14	12	Francoise Bettencourt	70	195	2.79			
15	13	Mark Zuckerberg	39	190	4.87			
16	14	Zhong Shanshan	68	185	2.72			
17	15	Sergey Brin	50	180	3.6			
18								

2. Freeze the heading row 2 of the table. (2 marks)
3. In **column E**, type a formula to calculate the 'Wealth per year' by dividing the 'Wealth ($ billion)' by the 'Age(in years)'. (2 marks)
4. Use a function to calculate the **total wealth** of all individuals **aged 70 and above**. Enter the answer in **cell J3**. (2 marks)
5. Type a formula to calculate the **projected wealth** of Mark Zuckerberg after a **15% increase** in his wealth. Enter the answer in **cell J4**. (2 marks)
6. Use a conditional formatting to highlight the personalities whose wealth is **between 190 and 215 $ billion**. (2 marks)
7. Use a function to find the **highest wealth** value in the **column D**. Enter the answer in **cell J5.** (2 marks)
8. Use a function to determine the total number of personalities in the table. Enter the answer in **cell J6**. (2 marks)

Question 3. [12 Marks]

1. Open the second sheet **'Q.3'** in the **Final exam workbook**.

   Ahmed made an excel table showing the monthly expenses for variuos categories for the year 2023-24 as given below. Using the data, perform the following tasks given below.

	A	B	C	D	E	F	G	H	I	J
1	Monthwise Expenses for Year 2023-2024									
2	Month	Utility Expenses	Groceries	Clothing	Entertainment	Total Expenses				
3	January	120	80	50	60				Qu 2.	
4	February	150	90	40	70				Qu 3.	
5	March	130	85		65				Qu 4.	
6	April	110	100	70	50				Qu 2.	
7	May	140	95	80	75				Qu 2.	
8	June	125	80		60					
9	July	160	100	90	85					
10	August	170	120		70					
11	September	150	110	75	80					
12	October	135	90		75					
13	November	145	85	50	55					
14	December	155	100	70	80					
15										
16										

2. Use a function to calculate the total expenses for '**Utility Expenses**' over the year. Enter the answer in **cell J3**. (2 marks)
3. Use an **advanced function** to find how many months the Groceries expenses are greater than OMR 90. Enter the answer in **cell J4**. (2 marks)
4. Use an **advanced function** to calculate the total Clothing expenses for the months where **Clothing expenses are more than OMR 70**. Enter the answer in **cell J5**. (2 marks)
5. Use conditional formatting to highlight the months where the '**Total Expenses' are greater than OMR 320**. Format the cell background color to **light red** for these rows. (2 marks)
6. **Sort** the total expenses in column **F** from the largest to the smallest. (2 marks)
7. Create a **column sparklines** using the data in columns **B , C , D and E,** and place the sparklines in the cell range **B15:E15**.

   (2 marks)

MLO and Bloom's Level of Complexity

Q #	MLO Addressed	Complexity Level	Mark	Remark
1	7, 8, 9, 10	Apply	**14**	
2	7, 8, 9, 10	Apply	**14**	
3	7, 8, 9, 10	Apply	**12**	

References

Morrison, C., Pusins, D. and Ruffolo, L. (2015). *Computer Literacy Basics*: A comprehensive Guide to IC3. 5th edn. Standford: Cengage Learning.