BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF COMMERCE

DEPARTMENT OF HUMAN CAPITAL MANAGEMENT

INFORMATION SYSTEMS I

BS217

TIME: 3 Hours



INSTUCTIONS TO STUDENTS

- 1. Answer any four questions.
- 2. Each question carries 25 marks.
- 3. Start each question on afresh page.
- 4. Credit will be given for the use of relevant examples.
- 5. No cell Phones are allowed in the Examination Room.

Question One

a) Using the excel order of operation find the value of 150+150/(2+12)*12/4.

(5)

b) The spreadsheet below shows the annual incomes of sales reps in an organisation.

	Α	В	C	D	E
1	Name	Taxable Gross	Fixed Tax	Tax Rate	Net Income
-		Income	Amount		
2	Peter	358000			
3	Sarah	279000			
4	Thabo	155000			
5	Hazel	86000			
6	Chipo	198600			
7	Cathrine	123000			
8	Privilege	670000			
9	Debra	220000			
10					
11					
12	Tax Table				
13	Lower bracket	Upper bracket	Fixed Tax Amount	Tax rate above lower limit-1	
14	1	150000	0	18%	
15	150001	235000	27000	25%	
16	235001	325000	48250	30%	
17	325001		75250	35%	
18					
19					
20					
21					
22					

Required				
i) Write a 'what-if' statement that will calculate fixed amount in C2.				
ii) Write a 'what-if statement that finds the tax rate in D2.				
iii) Write a formula that will calculate net income in E2.				
	[25 Marks]			
Question Two				
Explain any five types of information systems used in organisations.	[25 Marks]			
Question Three				
a) Identify and explain the four types of operating systems.	(20)			
b) Describe the functions of utility software.	(5)			
<i>,</i>	[25 Marks]			
Question Four				
Explain any five types of network topologies found in organisational networks	. [25 Marks]			
Question Five	6 . C41			
Discuss the main problems associated with file processing that led to the develo				
database approach.	[25 Marks			
Question Six				
a) Explain the following terms as used in data processing:				
i) Batch processing	(4)			
ii) Data mart	(4)			
iii) Data warehouse	(4)			
iv) Real-time processing	(4)			
b) Use examples to distinguish between following data processing methods	(4)			
i) batch output and interactive output.c) centralized data processing and distributed data processing.	(5)			
[25]	MARKS]			

END OF PAPER