



REFORMED CHURCH UNIVERSITY

FACULTY OF COMMERCE

**BACHELOR OF COMMERCE HONOURS DEGREE IN LOGISTICS
AND SUPPLY CHAIN MANAGEMENT**

PROJECT IN SUPPLY CHAIN MANAGEMENT

HLSM 421

PART 4 SEMESTER 1 EXAMINATION

TOTAL MARKS [100]

DATE: DECEMBER 2022

TIME: 3 HOURS

INSTRUCTIONS

1. This paper has *six (6)* questions
2. Answer question *one (1)* and *any* other *three (3)*
3. Each question carries *25 marks*
4. Start each question on a new page

1. 'The challenge for many project organisations range from designing facilities that are secure against outside intrusion to ensuring that their product can be protected till it reaches the final consumer'. Discuss (25 marks)
2. Discuss how the SCOR model can assist in setting up supply chain capabilities like factories, production and other assets. (25 marks)
3. Evaluate the assertion that 'supply chain is a complex network made up of people, processes and technology that is engineered and managed to deliver value to a customer' (25 marks)
4. Consider the details of a project as shown in the table:

ACTIVITY	IMMEDIATE PREDECESSOR(S)	OPTIMISTIC	MOST LIKELY	PESSIMISTIC
A	-	5	15	25
B	-	5	10	45
C	-	20	25	60
D	A	10	40	40
E	B	5	10	45
F	C	15	15	45
G	C	5	10	15
H	D, G	15	30	45
I	E, F	10	20	60

- a) Determine the mean time for each activity (9 marks)
- b) Draw a network diagram for the project. (6 marks)
- c) Identify the Critical Path and calculate the duration of the project. (6 marks)
- d) State any four advantages of Critical Path Model. (4 marks)
5. Discuss the current global supply chain realities as a result of occurrence of COVID 19. (25 marks)
6. Discuss, using a practical case, what organisation should do to ensure that they have efficient and effective supply chains projects. (25 marks)

End of Paper