ICT Driven Decision-Making in the 4IR (Core Module)

EXAMINATION

MODULE CODE: ICD9X01

EXAMINATION PERIOD: SECOND QUARTER 2021

Date:	23 August 2021
Time:	06:00 – 08:00: read the provided case studies
	08h00 – 11h00: start examination
	11:15 submit examination
Total Marks:	60 (Weighting 50% of the total exam mark)
Internal Moderator:	Dr Angus Hervey
External Moderator:	Prof Mjumo Mzyece

Please read these instructions carefully	- This is an open-book examination.
	- Please answer all **SIX** questions provided in the exam
	- Ensure that your questions are numbered correctly and start each question on a new page
	- Type in your surname, Initial, student number, and date on the first page of your answer booklet.
	- This question paper consists of 4 pages including the cover page
	- The Zipline case study consists of 26 pages
	- The Moderna case study consists of 20 pages
	Students must use the naming convention given for their answer book as follows.
	- Last Name _Initial_Student Number_MBA Exam Module Title _Date (dd_mm_yy)
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	- Example: Nkosi_M_201036829_ MBA Innovative Marketing _01_ 09_ 20)
	- Please make sure that your **laptops are fully charged** before the exam window period.
	- We advise students to be at a location that has **reliable internet access.**
	- Use font Arial 12, line spacing 1.5.
	- All answer books and relevant attachments must be emailed to currentmbas@jbs.ac.za

Plagiarism

Please note that all exam answers will be submitted through the Turnitin similarity index to establish if there is a similarity. As this is an open book exam, you are required to use the APA academic referencing style. Where you quote verbatim from any source, the quotation must be in double inverted commas and the page number given as part of the reference.

Read the case study titled: **Zipline**

QUESTION 1:   **(10)**
This question is based on the case study.

How is drone delivery for health logistics a disruptive technology? Use the theories of Clayton Christensen, Mariana Mazzacutto and Dan Wang in your answer.

QUESTION 2:   **(10)**
This question is based on the case study.

How did the different political, cultural and economic environments in Tanzania, Rwanda, Ghana and the United States, affect Zipline's strategy?

QUESTION 3:   **(10)**
This question is based on the case study.

Will Zipline become the "Uber for Blood" or is it more likely to be acquired or outcompeted by the larger tech companies? Don't sit on the fence! Choose an answer, and then back it up with a strong argument based on your learnings from this module.

Read the case study titled: **Moderna**

QUESTION 4: (10)
This question is based on the case study.

Is Moderna a pharmaceutical company that entered the software business, or a software company that entered the pharmaceutical business? Make sure you justify your answer.

QUESTION 5: (10)
This question is based on the case study.

As of May 2021, Moderna has shipped over 500 million doses of its COVID-19 vaccine around the world. What are the key technology trends that came together to make the creation and production of this vaccine possible?

QUESTION 6: (10)
This question is based on the case study.

"*Biotechnology is today where the software industry was 50 years ago – on the cusp of touching all of our lives.*"
What steps could the South African government now take to ensure the country is at the forefront of this revolution in the future?