



ZIMBABWE EZEKIEL GUTI UNIVERSITY

FACULTY OF HEALTH, SCIENCE AND TECHNOLOGY

DEPARTMENT INFORMATION SYSTEMS

EXAMINATION PAPER

COURSE CODE : MIS213
COURSE TITLE : SOFTWARE PROJECT MANAGEMENT
SPECIAL REQUIREMENTS : None
DURATION : 3 Hours
LEVEL : 2.1
DATE : 2022

02 DEC 2022

INSTRUCTIONS TO CANDIDATES:

1. Answer all questions in Section A and any 3 in Section B.
2. Show all the working
3. Calculators and slide rules are allowed
4. Each question carries 20 marks

SECTION A: Answer all Questions

- 1) With the aid of relevant practical examples, discuss the significance of the following in software project management:
 - a) Activity float (4 marks)
 - b) Critical path (4 marks)
 - c) Cashflow forecasting (4 marks)
 - d) Risk management (4 marks)
 - e) Quality Assurance (4 marks)
- 2) A software development company is considering a new project with an initial investment of \$59 000. Cashflows are forecasted as follows:

Year	Cashflow
1	\$12000
2	\$16000
3	\$19000
4	\$23000
5	\$15000

- a) Calculate the payback time for the project. (8 marks)
- b) Calculate the Net Present Value of the project using a discount rate of 10% and comment on the attractiveness of the project. (12 marks)

SECTION B: Answer any 3 Questions

- 3) Discuss how emergent technologies are positively and negatively affecting the software development industries of late giving practical examples. (20 marks)
- 4) Discuss the characteristics of a project manager and how each contributes to the success of software development projects. (20 marks)
- 5) Discuss the following software project quality factors giving the criterion used for each with relevant examples:
 - a) Product operation quality factors (8 marks)
 - b) Product revision quality factors (6 marks)

- c) Product transition quality factors (6 marks)
- 6) a) Why is it important to carry out risk analysis before embarking on a software project. (4 marks)
- b) In an information system project of your choice, identify potential risks and provide strategies to deal with the potential risks identified. (16 marks)
- 7) a) What is the term Agile in software development. (4 marks)
- b) Compare and contrast Agile and Waterfall Development Models. (16 marks)

The End