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**GARISSA UNIVERSITY**

**UNIVERSITY EXAMINATION 2018/2019 ACADEMIC YEAR FOUR**

**SECOND SEMESTER EXAMINATION**

**SCHOOL OF INFORMATION SCIENCE AND TECHNOLOGY**

**FOR THE DEGREE OF BACHELOR OF INFORMATION SCIENCE**

**COURSE CODE: INF 410**

**COURSE TITLE: PROJECT MANAGEMENT**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 06/02/2020 TIME: 2.00-4.00 PM**

**INSTRUCTION TO CANDIDATES**

* **The examination has FIVE (5) questions**
* **Question ONE (1) is COMPULSORY**
* **Choose any other TWO (2) questions from the remaining FOUR (4) questions**
* **Use sketch diagrams to illustrate your answer whenever necessary**
* **Do not carry mobile phones or any other written materials in examination room**
* **Do not write on this paper**

**This paper consists of TWO (2) printed pages *please turn over***

**QUESTION ONE (COMPULSORY)**

1. Explain the following terms **[6 marks]**
   1. Project management
   2. Project portfolio
   3. Project chater
2. Explain four characteristics of a project **[4 marks]**
3. Explain three ways IT has changed project management **[6 marks]**
4. Explain four project management knowledge areas throughout the project **[8 marks]**
5. Explain three factors that might necessities project origination **[6 marks]**

**QUESTION TWO**

GAU intends to develop a library management system. As an expert in project management

1. Explain the five process that comprise the project management life cycle **[8 marks]**
2. Explain three reasons why agile software development method is best suited for this project **[6 marks]**
3. Explain briefly the project manager’s role and responsibilities **[4 marks]**

**QUESTION THREE**

1. Explain the benefits of an efficient project portfolio management **[5 marks]**
2. Define project management record and explain the process of stages in project record management **[6 marks]**
3. With the help of a diagram, explain the concept of the Triple constraint and its effect on a project. **[9 marks]**

**QUESTION FOUR**

1. With the help of a diagram, explain the following project management tools **[12 marks]**
   1. WSB
   2. Gant chart
   3. CPM
2. Identify four types of risk and explain the activities involved in risk management process **[8 marks]**

**QUESTION FIVE**

1. Explain the following project estimation techniques **[6 marks]**
   1. Cocomo
   2. Lines of codes
2. Explain the project management softwares available for project managers **[4 marks]**
3. When it comes to choosing project management software, there are many things to consider. Explain the five important aspects of project management software **[10 marks]**