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**GARISSA UNIVERSITY**

**UNIVERSITY EXAMINATION 2020/2021 ACADEMIC YEAR FOUR**

**SECOND SEMESTER EXAMINATION**

**SCHOOL OF PURE AND APPLIED SCIENCES**

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

**COURSE CODE: INF 410**

**COURSE TITLE: PROJECT MANAGEMENT**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 20/08/2021 TIME: 3.00-5.00 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 THREE (3) printed pages *please turn over***

**QUESTION ONE (COMPULSORY)**

1. Explain the following terms (6marks)
	1. Project charter
	2. Project Requirement Document
	3. project management record
2. Explain three characteristics of a project (6marks)
3. Explain three ways IT has changed project management (6marks)
4. Explain three reasons why project fails (6marks)
5. Explain three types of risks faced while developing a project (6marks)

**QUESTION TWO**

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

1. Explain the project manager’s role and responsibilities (6marks)
2. Explain four project management knowledge areas throughout the project (6marks)
3. Discuss the Project management process and the phases involved (8marks)

**QUESTION THREE**

1. Explain the benefits of an efficient project portfolio management (6marks)
2. Explain the stages in project record management (6marks)
3. With the help of a diagram, explain the concept of the Triple constraint and its effect on a project. (8marks)

**QUESTION FOUR**

1. Explain the factors that might necessities project origination (6marks)
2. Explain the benefits of project auditing (6marks)
3. Discuss the tools and techniques that project managers can use to ensure knowledge and lessons learned from previous projects are not lost, and can be shared for the benefit of future projects. (8marks)

**QUESTION FIVE**

1. Explain
	1. Risk identification (2marks)
	2. Risk Probability& effect (2marks)
	3. Risk Response strategy (2marks)
2. Explain the project management softwares available for project managers (4marks)
3. Using the information below, assuming that the project team will work a standard working week (5 working days in 1 week) and that all tasks will start as soon as possible:

|  |  |  |  |
| --- | --- | --- | --- |
| *Activity*  | *Description*  | *Required Predecessor*  | *Duration*  |
| A  | Product design  | (None)  | 5 months  |
| B  | Market research  | (None)  | 1  |
| C  | Production analysis  | A  | 2  |
| D  | Product model  | A  | 3  |
| E  | Sales brochure  | A  | 2  |
| F  | Cost analysis  | C  | 3  |
| G  | Product testing  | D  | 4  |
| H  | Sales training  | B, E  | 2  |
| I  | Pricing  | H  | 1  |
| J  | Project report  | F, G, I  | 1  |

1. Draw a CPM network diagram (4marks)
2. Determine the critical path of the project (3marks)
3. Calculate the planned duration of the project in weeks (3marks)