**TAKORADI TECHNICAL UNIVERSITY**

**FACULTY OF APPLIED SCIENCE**

**DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)**

**End of Second Semester Examination - 2017/2018 Academic year**

**HND Information and Communication Technology (HND ICT Level 200)**

**Year: Two (2) EVENING**

**Course Code: ICT 211: Introduction to Software Engineering Duration 2 Hours**

**SECTION A**

Answer **ALL** questions from this Section

**ALL questions CARRY EQUAL Marks**

**Question 1**

1. *You have been appointed as project manager / Software engineer for a major software production Company. Your job is to manage the development of the next generation version of its widely used Word processing software. Because competition is intense, tight deadline have been established and announced by higher management.*

*What software process model (s) would you choose and why?* ***[9 marks]***

1. *You have been asked to develop a small application that analyses each course offered by Takoradi Technical University (TTU) and reports the average grade obtained in the course (for a given Semester) . What software model (s) would you choose and why?*

***[11 marks]***

**SECTION B**

**SECTION B- PRACTICAL I**

Answer **ALL** questions from this Section

The following are the requirements engineering reports from Railway Company Ltd.

**Requirements/Problem Statements**

* Information about the Route, Cancellation of tickets, departure time, arrival time, number of trains available, and other such information
* Store and retrieval of information about the various transactions related to Rail travel
* Keep track of all its passengers and thus schedule their journey accordingly
* Maintains records of passengers travelling in the different trains on different dates reaching different destinations in the system
* User friendly interface to administration and customers

**Question 1**

You are required to Design TICKET COMPONENTS of a RAILWAY SYSTEM using Entity Relationship diagram (ERD) OR ANY DESIGN DIAGRAM(s) of your choice **[10 marks]**

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**HND Information and Communication Technology (HND ICT Level 200)**

**Year: Two (2) REGULAR –PRACTICAL II**

**Course Code: ICT 211: Introduction to Software Engineering Duration 1 Hours**

**SECTION C-PRACTICAL II**

The following are the requirements engineering reports from Railway Company Ltd.

**Requirements/Problem Statements**

* Information about the Route, Cancellation of tickets, departure time, arrival time, number of trains available, and other such information
* Store and retrieval of information about the various transactions related to Rail travel
* Keep track of all its passengers and thus schedule their journey accordingly
* Maintains records of passengers travelling in the different trains on different dates reaching different destinations in the system
* User friendly interface to administration and customers

**Question 1**

1. You are required to Design TICKET COMPONENTS of a RAILWAY SYSTEM using Entity Relationship diagram (ERD) OR ANY DESIGN DIAGRAM of your choice [**15 marks]**
2. You are required to Design interface (s) for TICKET COMPONENTS

**[10 marks]**

1. Prepare a PowerPoint presentation of your Designs **– To present to a panel [15 marks]**