

# ZIMBABWE EZEKIEL GUTI UNIVERSITY



## FACULTY OF HEALTH, SCIENCE AND TECHNOLOGY

### Department of Digital Technology

### Module: CDT208 Mobile Application Development

**Exam Duration: 4 hours**

**End of Semester Examination 2021**

### Instructions

#### INSTRUCTIONS TO CANDIDATES:

- (i) Answer all questions, the mark allocation for each question is shown in square brackets.
- (ii) Number your answers accordingly.
- (iii) The total marks for the examination is 100.
- (iv) The Examination consists of Section A and Section B
- (v) Write your section A in answer booklet provided
- (vi) Write section B on your computer and save your work in one folder

## Section A – Theory Question –[50 marks]

### Question One

Give a brief description of the following utilities in android programming

- (i) AndroidManifest.xml
- (ii) build.xml
- (iii) bin/
- (iv) src/
- (v) res/
- (vi) assets/ [12]

### Question Two

- (i) outline the importance of Android in the mobile market[4]
- (ii) identify and explain the four essential states of an activity[8]
- (iii) How do you launch an activity in android [4]
- (iv) Define a widget in Android[4]

### Question Three

- (i) Justify the importance of an emulator in android programming[4]
- (ii) What role does Dalvik play in Android development? [4]
- (iii) Outline the benefits of Android in mobile application development[10]

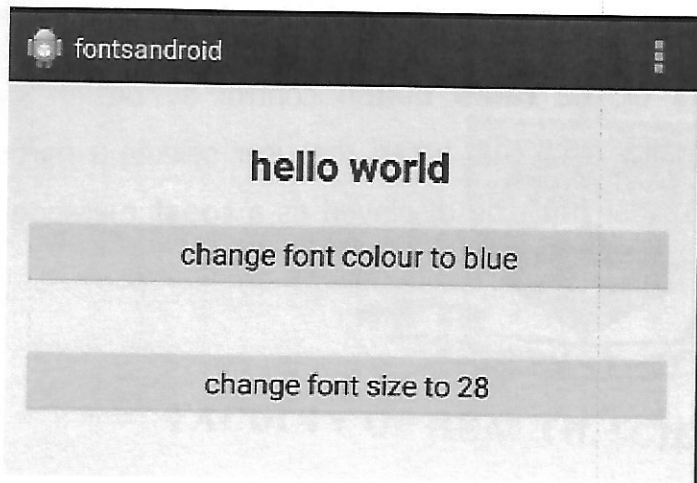
## Section B- Practical Questions-

[50 marks]

Answer any two questions from section B

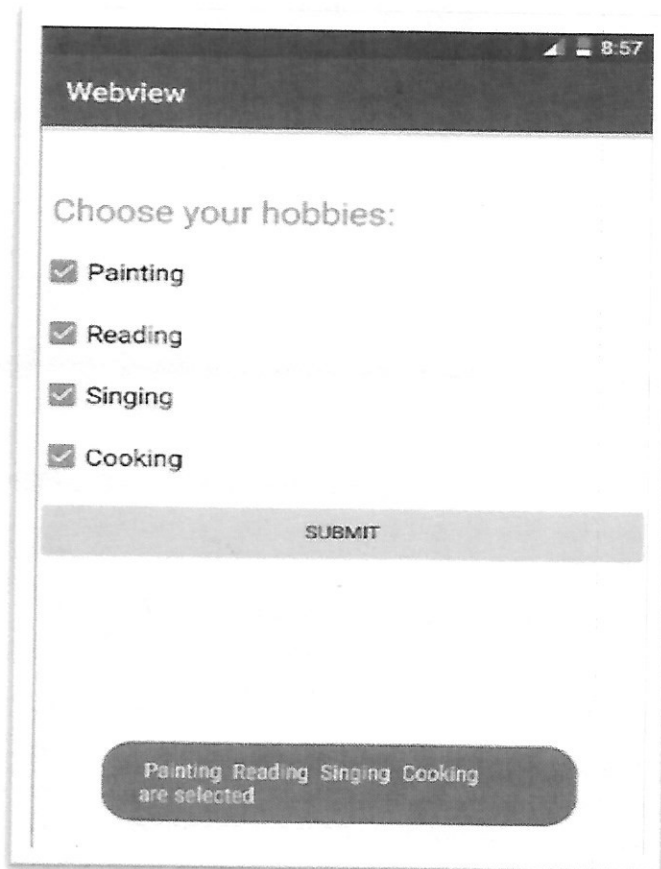
### Question Four

Design an interface shown below that contains two buttons and one edit text to experiment with fonts. The edit text must contain the text "Hello world" and when the user clicks the first button font colour must be changed to **blue**. when the user clicks the second button text hello world must be changed font size to **28**. [25 marks]



### Question Five

Demonstrate your understanding of checkboxes by designing and adding functionality to the interface below. The user must choose hobbies from the list and upon clicking the submit button the selected hobbies must be displayed to the screen using a toast. [25 marks]



### Question six

Demonstrate your understanding of the **radio** button control by designing the interface below and add functionality such that when the user selects a particular Wrestler and click submit ,the wrestler must be displayed as a **toast** message. [25 marks]

