

ZIMBABWE EZEKIEL GUTI UNIVERSITY



FACULTY OF HEALTH, SCIENCE AND TECHNOLOGY

Department of Information Systems

Module: BIS225 Mobile Application Development

Exam Duration: 3 hours

End of Semester Examination 2022

Instructions

05 OCT 2022

- (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) bin/
- (iii) src/
- (iv) res/
- (v) assets/

[12]

Question Two

- (i) Briefly explain the following concepts related to android event management
 - a. Eventlistener
 - b. Event listener registration
 - c. Event handler [9]
- (ii) Complete the following table below [10]

Event handler	Event listener and description
onClick()	
onLongClick()	
onTouch()	
onMenuItemClick()	
onKey()	

Question Three

- (i) A content provider is implemented as a subclass of **ContentProvider** class and must implement a standard set of APIs that enable other applications to perform transactions. Define a class for the above scenario. [8]
- (ii) What is a portable wi-fi hotspot? [3]
- (iii) Outline the benefits of Android in mobile application development [10]

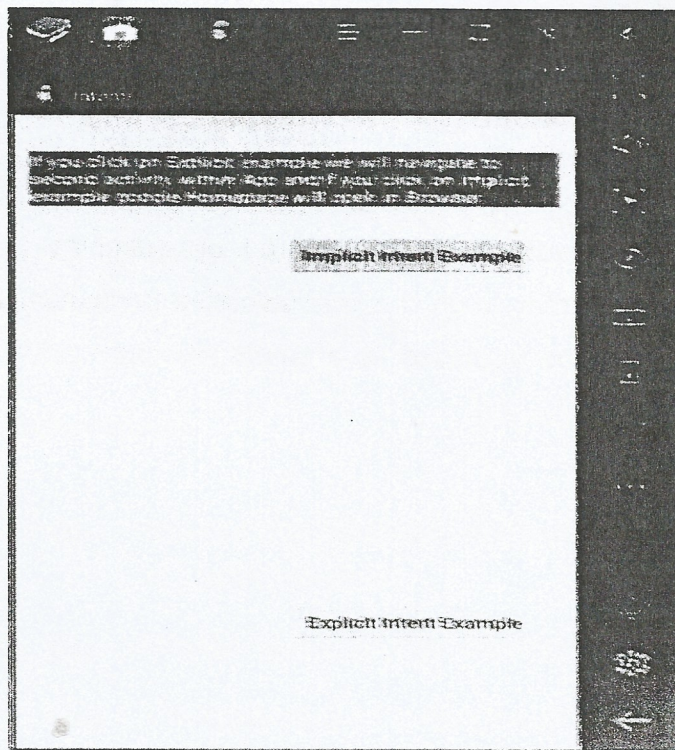
Section B- Practical Questions-

[50 marks]

Answer any two questions from section B

Question Four

Design an interface shown below that contains two buttons and one textview to experiment with implicit and explicit intents. When the user clicks the implicit intent button execution must shift to a second activity. when the user clicks explicit intent button google homepage must be loaded in the browser. [25 marks]



Question Five

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

Nanna foods

Select your Favorite Dish

Sadza and Fish

Rice and Chicken

Spaghetti and

Click

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 Day and click button send ,the day must be displayed as a **toast** message. [25 marks]

What is your favourite day of the week?

Select your Favourite Day

Monday

Tuesdav

Wednesday

Thursday

Friday

Send