

UNIVERSITI MALAYA
UNIVERSITY OF MALAYA

PEPERIKSAAN IJAZAH SARJANA MUDA SAINS KOMPUTER
EXAMINATION FOR THE DEGREE OF BACHELOR OF COMPUTER SCIENCE

SESI AKADEMIK 2013/2014 : SEMESTER II
ACADEMIC SESSION 2013/2014 : SEMESTER II

WKES2107 : Interaksi Insani Komputer
Human Computer Interaction

Jun 2014
June 2014

Masa: 2 jam
Time: 2 hours

ARAHAN KEPADA CALON:
INSTRUCTIONS TO CANDIDATES:

Calon dikehendaki menjawab **SEMUA** soalan (50 markah).
Answer **ALL** questions (50 marks).

(Kertas soalan ini mengandungi 3 soalan dalam 3 halaman yang dicetak)
(This question paper consists of 3 questions on 3 printed pages)

1. Apakah **LIMA (5)** faktor-faktor yang perlu diambil kira dalam merekabentuk antaramuka skrin yang kecil seperti di telefon pintar?

*What are the **FIVE (5)** factors that need to be taken into consideration in designing the interface for small screen such as smart phone?*

(5 markah/marks)

2. Sebuah tadika swasta diberi nama "Brighter Chelsea Kindergarten" ingin mengadakan aplikasi mudah alih bagi proses pendaftaran dalam telefon pintar. Anda dikehendaki untuk mendraf antaramuka tahap bawah atau *low fidelity* bagi yang berikut:

A private kindergarten called "Brighter Chelsea Kindergarten" would like to have a mobile application for registration in smartphones. You are required to draft low level interface or low fidelity for the following:

- a) Rekabentuk log masuk antaramuka pengguna bagi ibu bapa yang hendak mendaftar anak mereka setelah pengguna muat turun aplikasi tersebut di dalam telefon pintar.

Design the login interface for user who are parents who want to register their child after user downloaded the application into their smart phone.

(5 markah/marks)

- b) Rekabentuk menu utama yang mengandungi pilihan EMPAT perkara iaitu Borang Pendaftaran Pelajar, Borang Keselamatan, Borang Maklumat Kecemasan dan Borang Maklumat Karektor.

Design the main menu that contains FOUR options which are Student Registration Form, Security Form, Emergency Information Form and Character Information Form.

(10 markah/marks)

- c) Anda dikehendaki membina Borang Pendaftaran Pelajar di dalam telefon pintar yang mempunyai dua bahagian iaitu Profil Pelajar dan Maklumat Keluarga seperti yang berikut:

You are required to develop Student Registration Form in a smart phone that has two sections which are Student Profile and Family Information as per below:

Profil Pelajar: Nama, Tarikh Lahir, Jantina, Alamat, Bandar, Poskod, Kegemaran, Tidak Disukai

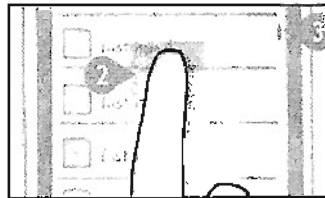
Student Profile: Name, Date of Birth, Gender, Address, Town, Postcode, Favourites, Dislikes

Maklumat Keluarga: Nama Bapa, Telefon Bimbit, Pekerjaan, Alamat (jika berbeza), Alamat Pejabat, Nama Ibu, Telefon Bimbit, Pekerjaan, Alamat (jika berbeza), Alamat Pejabat, Senarai Anak (Nama, Umur, Jantina)

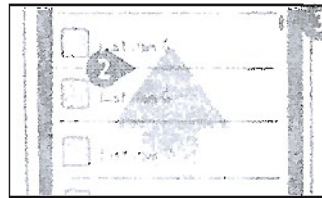
Family Information: Father's Name, Mobile Phone, Occupation, Address (if different), Office Address, Mother's Name, Mobile Phone, Occupation, Address (if different), Office Address, List Of Children (Name, Age, Gender)

Sebagai panduan membina borang ini, skrin interaksi Android diberikan seperti berikut:

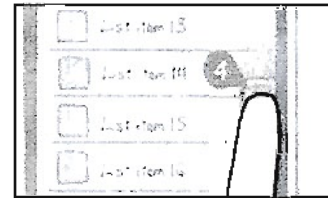
As a guidance to create the form, Android interaction screens are given as follows:



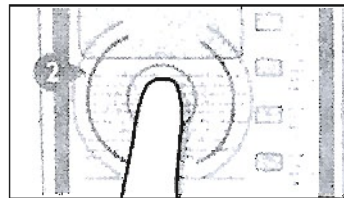
Leret untuk gulung
Slide to scroll



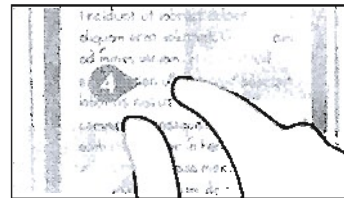
Fling untuk skroll
Fling to scroll



Gulung ibujari
Scroll thumb



Tekan dua kali untuk
pembesaran
Double tap to zoom



Picit dan merebak
Pinch and spread

Sumber: [Androidpatterns.com](http://www.androidpatterns.com/)
Source: [Androidpatterns.com](http://www.androidpatterns.com/)

(20 markah/marks)

3. Rekabentuk satu tulisan TIPOGRAFI bagi sebuah butik menjual jubah puteri berjenama "Ainim". Gunakan warna yang disarankan oleh pengguna iaitu warna UNGU, JINGGA, MERAH dan MERAH JAMBU.

Design a **TYPOGRAPHY** writing for a boutique selling princess gown "Ainim". Use the colors suggested by users which are **PURPLE, ORANGE, RED and PINK**.

(10 markah/marks)

TAMAT
END