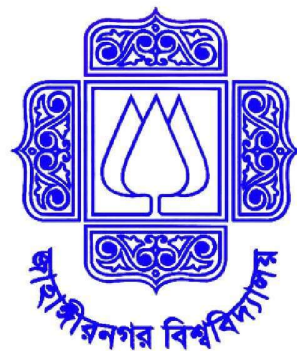


JAHANGIRNAGAR UNIVERSITY

Institute of Information Technology (IIT)



CLASS TEST 1

Summer Semester 2023 Intake

Date of Examination: JULY 14, 2023

HASAN TAHSIN RAFSAN

Professional Masters in Information Technology (PMIT) Program

1ST Trimester Regular Batch

Section A

ID No: 232137

232137 - P-1

Ans:

1) @ Basically Android studio application implementation required 7 basic folders & 1 scripts directory.

These are:

- ① Java folder: - contains source code of java.
default class file: MainActivity.java
- ② Resource folder: - or known as res folder.
contains all non-code resource, image, XML layout
- ③ Drawable folder: (res/drawable): - basically contains different type of images & or icons of app.
- ④ Layout Folder (res/layout): - contains all XML layout used for user interface.
- ⑤ Mipmap folder: (res/mipmap): contains app/launcher icons used to show on home screen. based on different device size.
- ⑥ values folder (res/values): contains various XML files like string, colors, arrays.

232437 P-2

(iii) Manifests folder: - contains manifest file (AndroidManifest.xml) which contains information about application information, access, permission, metadata

(vii) ~~Gradle~~ Gradle Scripts: - ~~more~~ automated build system by ~~composing~~ defining a configuration modules for application.

In gradle build.gradle (project), build.gradle (module) used to build configurations that apply for app modules or specific to one app module.

Main files: -

(i) Android layout file: activity_main.xml

(ii) Android main activity file: MainActivity.java

(iii) Android Manifest file: AndroidManifest.xml

23437 P-3

16 Android is an open-source operating system based of linux ~~operating system~~ with a java programming user interface for mobile, TV or touch devices.

Android is an OS or operating system because it is modified version of the linux operating system kernel & usually build for devices like mobile, TV or touchscreen.

It is open source because its source code is open & public for developer through 'Android open source project (AOSP)'. So anyone can customize this based on requirements.

And finally any hardware/software environment in which the program runs is known as platform. Since Android has its own runtime environment (JRE) and API. so, Android is a platform.

232137

P-4

Q. 10

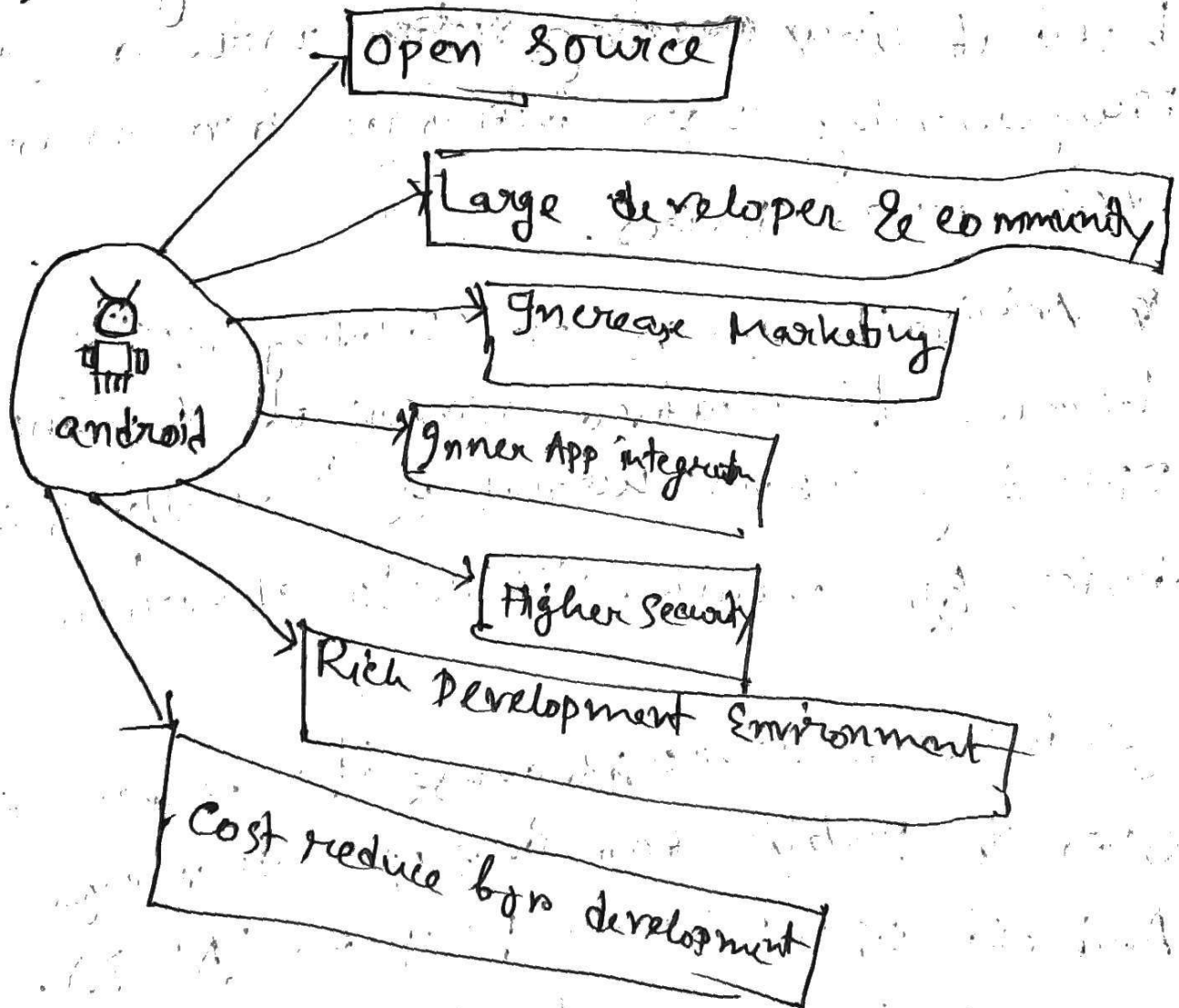


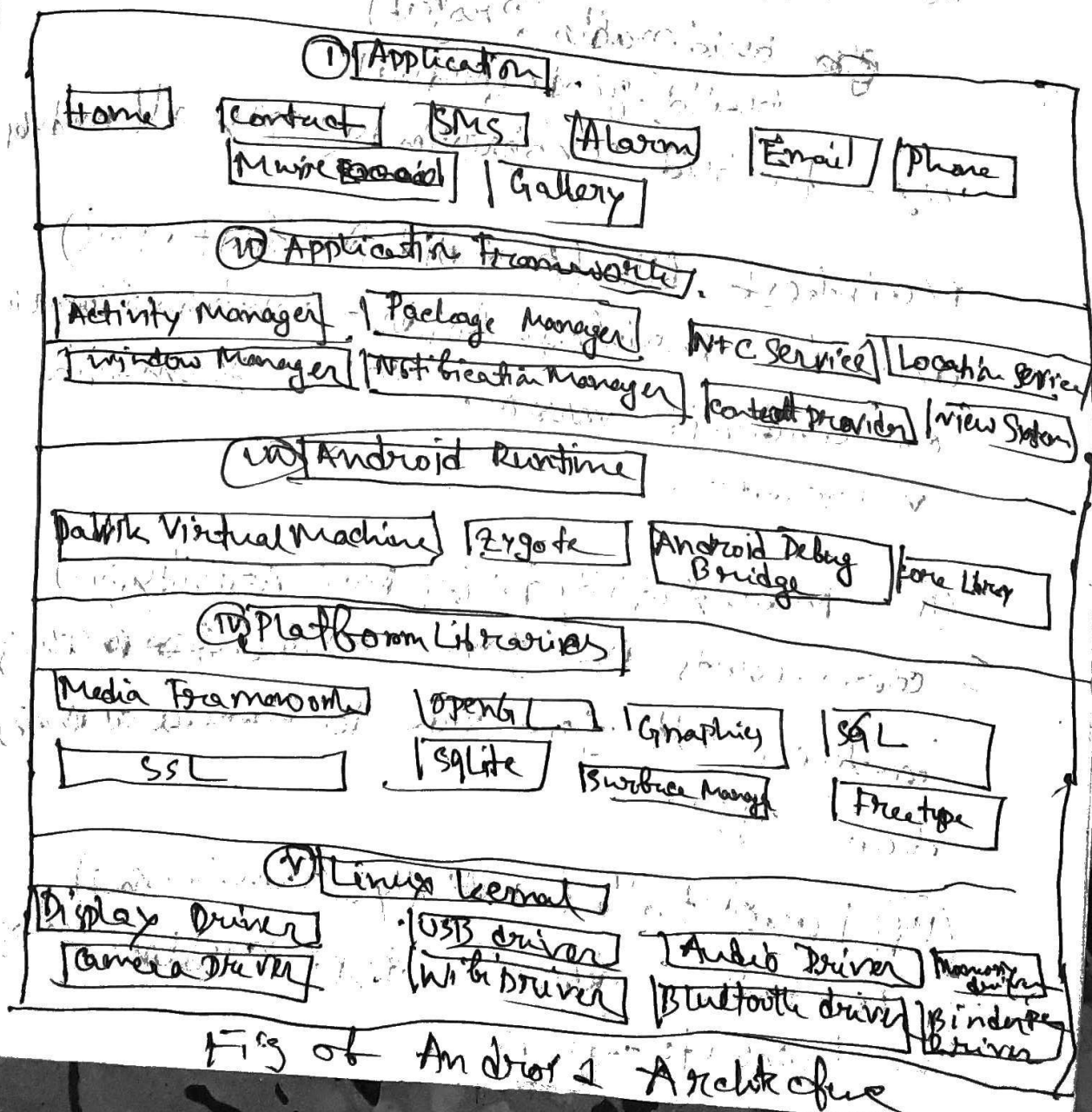
Figure 06 : Android ~~beauties~~ Features.

232137

P.S

Ans. Q

2@ Android architecture is based on 5 components that are given in figures.
 Linux kernel is the main component of Android.
 2@ DVM (Dalvik Virtual Machine) is responsible for mobile application.



232137

P-6

26

① Gradle Scripts & Manifest files

Gradle means automated build system
used for build configuration to app.
all modules in application. In gradle,

~~the~~ build.gradle (Project)

build.gradle (module)

used to build configuration to app & all modules.

Manifest file (AndroidManifest.xml)

are in manifest folder. contains information
of android version, access permission
metadata.

② Main Activity file (MainActivity.java)

~~code~~ exists in java folder. This
contains all java code to handle activities
for app.

③ Layout file (activity_main.xml)

contains design & text nodes. exists
in layouts folder.

23452

p-2

200

Android NO	Codename	AP
1	alpha	1
1.1	Banana Bread	2
1.5	cupcake	3
1.6	Donut	4
2-2.1	Eclair	5-7
2.2	Froyo	8
2.3	Gingerbread	9-10
3-3.2	Honeycomb	11-13
4	Jelly Bean	14-15
4.1-4.3	Jelly Bean	16-18
4.4	KitKat	19-20
5-5.1	Lollipop	21-22
6	Marshmallow	23
7	Nougat	24
8	Oreo	25

232132

P 8

9 | Pie

25

10 | Quince tart

11 | Red velvet

12 | Snow cone

13 | Pies