

Seat No. : _____

SD-127

October-2017

B.C.A., Sem.-VI

SEC-302(1) : Mobile Application Development

Time : 3 Hours]

[Max. Marks : 70

1. (a) What is mobile computing ? List out characteristics of mobile computing. Explain structure of mobile computing application with diagram. 7

OR

Write note on Global system for mobile communications.

- (b) Explain categories of fixed assignment schemes. 7

OR

Write note on General Packet Radio Service (GPRS).

2. (a) Explain TCP in mobile networks. 7

OR

Write note on Mobile IP.

- (b) Explain constraints and requirements of Mobile OS. 7

OR

Explain the following terms : HTTP, SMTP, MIME, BOOTP, UDP, IGMP and FTP.

3. (a) Explain life cycle of android activity with suitable diagram. 7

OR

Define Activity. Explain how to launch an Activity and explain Activity Class.

- (b) What is Intent ? Explain Intent Class with example. How to add intent in android ? 7

OR

What is an AVD ? Explain the importance of Emulator.

4. (a) Explain values folder and drawable folder. 7

OR

Write note on relative layout.

- (b) What is view ? Write note on ViewGroup. 7

OR

Explain resource management.

5. Do as directed : 14

- (1) The Universal Mobile Telecommunications System (UMTS) is a _____ generation mobile cellular system.
- (2) Palm OS was not designed for ease of use with a touchscreen-based graphical user interface. (T/F)
- (3) The 2G cellular network uses _____.
 - (a) TDMA
 - (b) CDMA
 - (c) None of above
 - (d) Both (a) and (b)
- (4) Care-of address allows a home agent to forward messages to the mobile device. (T/F)
- (5) ICMP is an error-reporting protocol. (T/F)
- (6) MAC stands for _____.
 - (a) Medium Access Control
 - (b) Medium Action Control
 - (c) Multiple Access Control
 - (d) None of above
- (7) UDP is a connection _____ Protocol.
- (8) The _____ folder is required for all source code.
- (9) @-id notation is used, when defining a new id. (T/F)
- (10) The AndroidManifest.xml file must be included at the top level of any android project. (T/F)
- (11) The wrap_content component wants to display as big as its parent and fill in the remaining spaces. (T/F)
- (12) Application class is the base class where the global variables are maintained. (T/F)
- (13) Absolute Layout arranges its children in a single column or a single row. (T/F)
- (14) ADT stands for _____.
