

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2019
(Fifth Semester)

Branch - **INFORMATION TECHNOLOGY**

MOBILE COMPUTING

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks!)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 2 = 20)

- 1 Give an example for 3G mobile networks.
2 What are Ad-hoc networks?
3 What is roaming?
4 List out any two applications of Wireless LAN.
5 What is SMMO?
List out the GSM addresses and identifiers.
Define: Throughput.
What are the functions of SNDTCP?
List out voice APIs.
10 What are the functions of RFID?

SECTION - B (25 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Identify the functions of mobile computing.
OR
b Explain about middleware and gateways.
12 a What are the advantages of wireless LAN?
OR
b Write a note on ad-hoc networks and sensor networks.
13 a Discuss about signaling protocol structure in GSM. .
OR
b Explain about GSM frequency allocation.
14 a Discuss the physical and data link layer functions of GSM.
OR
b Explain the applications of GPRS.
15 a Give a brief overview of voice software.
OR
b Write a note Java Card.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Discuss the application and services of mobile computing.
17 Explain MMS architecture and MMS transaction flows.
18 Explain the GSM architecture with neat diagram.
19 Discuss the network operations of GPRS.
20 Elaborate the Bluetooth protocol stack.