

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2017
(Fifth Semester)

Branch - **INFORMATION TECHNOLOGY**

MOBILE COMPUTING

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

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

- 1 What is wireless PAN?
- 2 Define the term - Gateways.
- 3 Define the term - Sensor network.
- 4 What is Wifi?
- 5 Define - FDMA and TDMA.
- 6 What is SMMO in SMS?
- 7 Define-GPRS.
- 8 What is meant by reliability and throughput in GPRS QoS?
- 9 Define - TAPI.
- 10 What is Java card?

SECTION - B (25 Marks)

Answer **ALL** Questions

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

- 11 a Describe the mobile computing functions.
OR
b Discuss on the architecture for mobile computing.
- 12 a Explain the MMS architecture and transaction flows.
OR
b List out the wireless LAN advantages and describe the mobility in wireless LAN.
- 13 a Describe the network aspect of GSM and frequency allocation.
OR
b Discuss on SMS architecture.
- 14 a Explain the basics of GPRS and packet data network.
OR
b Describe the applications and limitations of GPRS.
- 15 a Discuss on the characteristics of Bluetooth.
OR
b Explain the working of Rf-id.

SECTION - C 130 Marks)

Answer any **THREE** Questions

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

- 16 Explain the evolution of wireless networks, wireless data and wireless LAN
- 17 Discuss on WAP architecture, WAP application environment and WML.
- 18 Describe the GSM architecture, call routing, addresses and identifiers.
- 19 Explain the GPRS network architecture and operations.
- 20 Discuss on mobile computing through telephone and developing an IVR application.