

Total No. of Questions : 8]

SEAT No. :

**P614**

[Total No. of Pages : 2

**[6004] - 566**

**B.E. (Information Technology Engineering)**

**MOBILE COMPUTING**

**(2019 Pattern) (Semester - VII) (Elective - III ) (414444 A)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Figures to the right indicate full marks.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Use of a calculator is allowed.
- 5) Assume suitable data if necessary.

- Q1)** a) i) Diagram. [3]  
ii) Explanation. [6]  
b) i) Explanation. [1]  
ii) 2G Standards. [8]

OR

- Q2)** a) i) Diagram. [3]  
ii) Explanation. [6]  
b) i) Explanation [3]  
ii) Features. [3]  
iii) Services provided by 3G. [3]

- Q3)** a) i) DSDV. [4]  
ii) DSR routing algorithms for ad hoc networks. [4]  
b) i) Diagram [3]  
ii) Explanation [6]

OR

- Q4)** a) i) Hidden and exposed terminal problem [3]  
ii) Mobility of nodes. [3]  
iii) Resource Constraint. [3]  
b) i) Tunnelling. [3]  
ii) Encapsulation. [3]  
iii) Reverse Tunnelling. [2]

**P.T.O.**

- Q5)** a) i) Explanation. [3]  
 ii) Features. [6]  
 b) i) Indirect-TCP (Diagram -02/ Explanation-03) [5]  
 ii) Snooping TCP with diagram. (Diagram -02/ Explanation-02) [4]

OR

- Q6)** a) i) Architecture Diagram. [3]  
 ii) Explanation. [6]  
 b) i) Slow start. [3]  
 ii) Fast retransmit. [3]  
 iii) Fast recovery. [3]

- Q7)** a) i) Explanation of Mobile Device Operating Systems [3]  
 ii) Special Constrains & Requirements. [6]  
 b) i) iOS SDK. [4]  
 ii) Android SDK. [4]

OR

- Q8)** a) i) Explanation of Mobile Payment System. [4]  
 ii) Security issues. [5]  
 b) i) Palm OS. [2]  
 ii) Symbian OS. [2]  
 iii) iOS. [2]  
 iv) Android. [2]

