

Government College of Engineering Aurangabad
(An Autonomous Institute of Government of Maharashtra)
BE (IT) FT REV Examination
End Semester Examination November 2016

IT 440 : Mobile Computing

Time: Three Hours

18.NOV 2016

Max. Marks: 60

“Verify the Course Code & check whether you have got the correct question paper”

N.B:-

- 1. All questions are compulsory*
- 2. Figures to the right indicate full marks*
- 3. Assume suitable data if necessary & state it clearly*
- 4. Use of non-programmable calculator is allowed*

- Q.1 Attempt any Two (12)**
- i) How Multiple access with collision avoidance (MACA) solves hidden terminal problem?
 - ii) Illustrate FDM with its advantages and disadvantages?
 - iii) Discuss Near and Far terminals problem. Give the solution for this problem.
- Q.2 Attempt any Two (12)**
- i) Enlist the requirements for a mobile IP and justify them. Does mobile IP fulfill them all?
 - ii) Elaborate the basic architecture of Cellular IP.
 - iii) State the functionalities of the following terms:(a) Care Of Address(COA) (b) Foreign Agent (FA) (c) Agent Advertisement (d) Agent solicitation
- Q.3 Attempt all (12)**
- i) How end to end semantics is preserved by the snooping TCP? Write its advantages and disadvantages.
 - ii) What are the factors to be considered while implementing TCP over mobility?
- Q.4 Attempt any Two (12)**
- i) Which are the main sections of A typical mobile document ? Explain in brief.
 - ii) Enlist the different CSS techniques ? Explain any one with example.
 - iii) Suggest the different technologies (or APIs) that are bundled with JavaScript to support most of the mobile browsers? Explain in short.
- Q.5 Attempt all (12)**
- i) Describe the Architecture of mobile widget development. How the data storage is done in mobile widget?
 - ii) Explain the different server techniques that can be used to determine the geographical location of a device?
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