

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – I • EXAMINATION – SUMMER • 2013

Subject code: 715305

Date: 13-06-2013

Subject Name: Symbian OS Communications Programming

Time: 10.30 am – 01.00 pm

Total Marks: 70

Instructions:

1. Attempt question 1 which is compulsory and answer any four from the rest questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right hand indicate the marks.

Q. No. 1

- a. Write a program to alert the user whenever he enters a string longer than 40 characters in one text field, 20 characters in next text field and 20 characters in the third text field. [7 Marks]
- b. Write a simple J2ME program to reverse a 10 digit number on the screen of the phone the input for the same comes from the user. [7 Marks]

Q. No. 2

- a. What is the difference between kernel mode and user mode? Give two differences about the privileged mode. [7 Marks]
- b. What are the collection classes that are supported in J2ME? Give example of each. [7 Marks]

Q. No. 3

- a. What do you mean by a vector? Discuss its uses and how it supports in Symbian. [7 Marks]
- b. What do you mean by virtual machine? Which virtual machine is supported on Symbian devices? Write its importance. [7 Marks]

Q. No. 4

- a. What is ActionListener? What is the purpose of the interface ActionListener? [7 Marks]
- b. What is NThread class? Explain the purpose of the NThread class. [7 Marks]

Q. No. 5

- a. What is Symbian? Name any two features of Symbian design and explain them. [7 Marks]
- b. Write a program to print the sum and product of first twenty numbers on screen in J2ME. [7 Marks]

Q. No. 6

- a. Create a simple quiz program for mobile of five screens then let the users see their scores at the end of the quiz program. [7 Marks]
- b. How is the security of the midlet that is being installed in phone maintained? [7 Marks]

Q. No. 7

- a. Draw a diagram and explain the various states of the transitions for the Midlet. [7 Marks]
- b. What is the Symbian kernel? Write its role in the Symbian operating systems. [7 Marks]

Q. No. 8

- a. What are the various classes of MIDP? Draw a class diagram to illustrate the various classes. [7 Marks]
- b. Create a simple registration form for users of the library to reserve their books once they complete the registration they should get an alert about the status of their enquiry. [7 Marks]
