

**B.Sc. IT.**  
**April, 2015**

**6<sup>th</sup> Semester**

**Title/Course No. : Computer Network (601)**

**Time Allowed: 2 ½ Hours**

**Maximum Marks: 80**

**Min. Pass Marks: 40**

**Note: Attempt all questions from Section A & B and only two questions from Section C.**

**Section A: Very short answer type questions to be answered in 20 words.**

**(8 x 2 = 16)**

1. ☒ i) What is network?
- ☒ ii) What is Protocol?
- ☒ iii) What is Communication?
- ☒ iv) What is Internet?
- ☒ v) What is Antivirus?
- ☒ vi) What is data security?
- ☒ vii) What is Bridging?
- ☒ viii) What is URL?

**Section B: Short type answer type questions to be answered in 250 words.**

**(4 x 8 = 32)**

- ☒ 2. Write advantages, disadvantages and applications of Ring Topology.
- ☒ 3. Explain the concept of Packet Switching.
- ☒ 4. What security measures would you as Network Administrator suggest to your Principal?
- ☒ 5. Explain the benefits of networking.

**Section C: Long answer type questions to be answered in about 500 words.**

**(2 x 16 = 32)**

- ☒ 6. What is Topology? Explain advantages and disadvantages of Mesh Topology.
- ☒ 7. Explain the concept of Virtual LAN.
- ☒ 8. Explain OSI model of Interconnection
- ☒ 9. What is transport layer? What are various protocols of this layer? Describe any one.

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**Examination: B. Sc. IT**  
**Subject: Wireless & Mobile Communication (BIT-602)**  
**Time Allowed: 2½ Hours**

**Semester : 6<sup>th</sup>**  
**Maximum Marks: 80**  
**Min Pass Marks: 32**

Note: Attempt all questions from section A and B and only two questions from section C

Section: A (Very Short answer type questions to be answered in about 20 words) {Marks : 8 X 2=16}

Q1.

- ✓ I. Define Fixed Wireless (WLL) Phones.
- ✓ II. Define Wireless with limited mobility (WLL-M) Phones.
- ✓ III. Define Frequency Division Multiplexing
- ✓ IV. What is Frequency reuse
- ✓ V. Write purpose of Pilot
- ✓ VI. What is Paging
- ✓ VII. What is Handoff
- ✓ VIII. Define Roaming

Section: B (Short answer type questions to be answered in about 250 words)

{Marks : 4 X 8=32}

- ✓ Q2. Classify and Explain types of Wireless Telephones.
- ✓ Q3. Discuss Signal Propagation
- ✓ Q4. Discuss CDMA Channels
- ✓ Q5. Name and Discuss various Mobility Management issues

Section: C (Long answer type questions to be answered in about 500 words)

{Marks : 2 X 16=32}

- ✓ Q6. Write and discuss various generations of mobile phone technology
- Q7. Explain use and allocation of Electromagnetic spectrum.
- Q8. Explain forward and reverse CDMA channels for cell/sector.
- ✓ Q9. Explain Global System for Mobile Communication System.



**B.Sc. IT.**  
**May, 2015**

6<sup>th</sup> Semester  
Title/Course No. : Visual Basic Programming (BIT-603)  
Time Allowed: 2 ½ Hours

Maximum Marks: 80  
Min. Pass Marks: 32

**Note:** Attempt all questions from Section A & B and only two questions from Section C.

**Section A: Very short answer type questions to be answered in 20 words.**

(8 x 2 = 16)

1. ☒ i) Give the significance of (.frm) in VB
- ☒ ii) Give the significance of (.bas) in VB.
- ☒ iii) Define Control.
- ☒ iv) What do you mean by Module in VB.
- ☒ v) What is Pop-up Menu.
- ☒ vi) Define Sub Menu
- ☒ vii) What SQL stands for.
- ☒ viii) Define Recordset.

**Section B: Short type answer type questions to be answered in 250 words.**

(4 x 8 = 32)

- ☒ 2. Write the steps of opening and saving the visual basic project.
- ☒ 3. Comparison between step-into and step-over.
- ☒ 4. Differentiate ByRef with ByVal through example.
- ☒ 5. Explain how database connection is created in Visual Basic using ADO.

**Section C: Long answer type questions to be answered in about 500 words.**

(2 x 16 = 32)

- ☒ 6. Explain various types of operators and expressions in Visual Basic with examples.
7. Show with examples the various looping constructs in Visual Basic.
8. How we declare an Array in VB. Explain the significance of Active X controls in VB.
- ☒ 9. What do you mean by packaging and deploying application? How SETUP for packaging and deploying can be created through wizard.

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**B.Sc. IT,  
May, 2015**

**6<sup>th</sup> Semester**

**Title/Course No. : Software Engineering (BIT-604)**

**Time Allowed: 2½ Hours**

**Maximum Marks: 80**

**Min. Pass Marks: 32**

**Note: Attempt all questions from Section A & B and only two questions from Section C.**

**Section A: Very short answer type questions to be answered in 20 words.**

**(8 x 2 = 16)**

1. ☒ i) What is Process?
- ☒ ii) What is Prototype?
- ☒ iii) What is meant by Verification?
- ☒ iv) What is meant by STD?
- ☒ v) What is Unit Testing?
- ☒ vi) What is Beta Testing?
- ☒ vii) What is the purpose of Gantt charts in Software Engineering?
- ☒ viii) What step according to you is longest running step in Software Engineering?

**Section B: Short type answer type questions to be answered in 250 words.**

**(4 x 8 = 32)**

2. ☒ Explain Spiral Model.
3. ☒ Draw a first level DFD of College System.
4. ☒ List out difference between black-box and white box testing.
5. ☒ Explain simple Bochum Model.

**Section C: Long answer type questions to be answered in about 500 words.**

**(2 x 16 = 32)**

6. ☒ Explain RAD and JAD in detail.
7. ☒ What are the different s/w Architecture Styles.
8. Explain in detail various types of Testing Techniques.
9. Explain SQA in detail.

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