Total No. of Questions : 10]                    [Total No. of Pages : 02

**B.Sc. DEGREE EXAMINATION, MAY – 2017**

**Third Year**

**COMPUTER SCIENCE**

**Software Engineering (IT)**

Time : 3 Hours                                                    Maximum Marks: 80

*Answer any Five Questions.*

*All questions carry equal marks.*

*Q1)* a)    Why  Software Engineering is important?

b)    Discuss about System Approach?

*Q2)* Create the UML Model diagram of State chart diagram for Library Accounts?

*Q3)* Discuss briefly about Data flow diagrams with suitable example?

*Q4)* Explain the Architectural Styles and Strategies?

*Q5)* Define Testing? Write about the System Testing process?

*Q6)* a)    Distinguish between the Software Process and Software Product Metrics?

b)    Write about characteristics of Requirements?

*Q7)* Explain about Integration Testing and the types involved in it?

*Q8)* Discuss about OO Design patterns?

*Q9)* Explain the differences between Reverse Engineering, Reengineering and recon-
    struction in software projects?

*Q10)* Explain about User Interface design with an example?

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Total No. of Questions : 10]                    [Total No. of Pages : 02

**B.Sc. DEGREE EXAMINATION, MAY – 2017**

**Third Year**

**COMPUTER COMMUNICATIONS & NETWORKS (IT)**

Time : 3 Hours                                        Maximum Marks: 80

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*Answer Any Five Questions*

*All Questions Carry  Equal Marks.*          *(5 × 16 = 80)*

*Q1)* Discuss about Error detection and error correction methods.

*Q2)* Explain OSI Reference model.

*Q3)* Explain the TCP and UDP.

*Q4)* Write about Analog and Digital Signals.

*Q5)* Describe ISDN Architecture.

*Q6)* Write about the following.

   a)    Network File System (NFS).

   b)    Remote Procedure Call (RPC).

   c)    Multiplexing.

*Q7)* Explain with a neat diagram. The Architecture of an ATM network.

*Q8)* Discuss about Repeaters, Hubs, Routers, Switches and Bridges.

*Q9)* Explain about metropolitan Area Network.

*Q10)* Explain the point-to-point (PPP) and list out the applications.


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Total No. of Questions : 10]                           [Total No. of Pages : 02

**B.Sc. DEGREE EXAMINATION, MAY – 2017**

**Third Year**

**BASICS OF E-COMMERCE (IT)**

Time : 3 Hours                                      Maximum Marks: 80

## *Answer any Five Questions.*

### *All questions carry equal Marks.*                 *(5×16=80)*

*Q1)* Describe the advances in technology which has facilitated E-Commerce.

*Q2)* List the major methods of Internet advertisement.

*Q3)* What is an intelligent agent? Discuss the characteristics of agent technology that will be useful for the market place.

*Q4)* Write the Security requirements for safe e-payments.

*Q5)* What is Electronic Funds transfers? How this system promotes business and economy in the country?

*Q6)* Explain the online transactions and payment mechanisms.

*Q7)* What do you mean by E-Commerce? Discuss the benefits and limitations of E-business.

*Q8)* Define e-cheque, and list the different types of e-cheque systems available to promote Electronic payment systems.

*Q9)* Write a short notes on the following:
   a) Special advertisement topics.
   b) Infrastructure for e-commerce.

*Q10)* Explain:
   a) Broker Based Services.
   b) E-Commerce services to travel and Tourism.

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Total No. of Questions : 10]                          [Total No. of Pages : 01

**B.Sc. DEGREE EXAMINATION, MAY – 2017**
**Third Year**
**DATA WAREHOUSING (IT)**

Time : 3 Hours                                         Maximum Marks : 80

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***Answer any FIVE questions***
***All questions  carry equal marks.***                 *(5×16=80)*


*Q1)* What is Data warehouse? Explain why it is needed and its uses.

*Q2)* Explain Data warehousing Design methodologies.

*Q3)* Explain about star schema design.

*Q4)* Explain about physical data warehouse

*Q5)* Explain about Indexing the warehouse.

*Q6)* Explain about different OLAP Tools.

*Q7)* Define datamining? Explain about decision trees.

*Q8)* Explain datawarehouse architecture.

*Q9)* Explain about critical path analysis in detail.

*Q10)* Explain
    a)   Data Marts.
    b)   Data Mining.


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Total No. of Questions : 10]                                    [Total No. of Pages : 01
**B.Sc. DEGREE EXAMINATION, MAY – 2017**
**Third Year**
**Visual Programming (IT)**
Time : 3 Hours                                                   Maximum Marks : 80

*Answer any FIVE questions*
*All questions  carry equal marks*                              (5×16=80)

*Q1)*  Explain the Hardware and Software requirements for visual programming.

*Q2)*  Explain compiler features and different options in VC$^{++}$.

*Q3)*  Explain about Cursors and bitmaps in VC$^{++}$.

*Q4)*  Write about object oriented programming foundation details.

*Q5)*  Write a windows files program to create a pic-chart.

*Q6)*  Explain visual C$^{++}$ window development tools.

*Q7)*  What is Header files? What are the uses of header file and explain in detail about any four standard header files.

*Q8)*  Discuss MFC classes.

*Q9)*  Explain the Active-X Technology and its controls in VC$^{++}$.

*Q10)* Explain different types of splitter windows and also write advantages of using splitter windows.

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