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Roll No.

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5th Sem. / Computer Engg.

Subject : Computer Networks

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note:Objective type questions. All questions are compulsory (10x1=10)

(Course Outcome/CO)

- Q.1 The basic purpose of compute N/W is resource sharing and communication. (T/F) (CO-1)
- Q.2 Datagram is connection less approach. (T/F) (CO-6)
- Q.3 IaaS stands for _____. (CO-4)
- Q.4 BSS stands for _____. (CO-2)
- Q.5 The bandwidth of Bluetooth is higher than wi-fi. (T/F) (CO-2)
- Q.6 Write the name of two network trouble shooting tools. (CO-8)
- Q.7 Write the types of hub. (CO-1)

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- Q.8 TCP stands for _____. (CO-6)
- Q.9 Write the default mask of class C IP address. (CO-3)
- Q.10 Name two types of Encryption techniques. (CO-7)

SECTION-B

Note:Very Short answer type questions. Attempt any ten parts 10x2=20

- Q.11 Write any two needs of computer network. (CO-1)
- Q.12 Define half duplex transmission. (CO-1)
- Q.13 Define the term peer computers. (CO-1)
- Q.14 Define the role of interface in layered architecture. (CO-6)
- Q.15 List four features of transport layer. (CO-6)
- Q.16 Define Piggybacking and its use. (CO-4)
- Q.17 Define subnetting. (CO-3)
- Q.18 Convert the following address into dotted decimal notation. (CO-4)

10001001 00001111 10000001 11000000

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- Q.19 Define the function of IPCONFIG. (CO-8)
- Q.20 List the types of Ethernet standards. (CO-3)
- Q.21 Define Public Cloud and its main features. (CO-4)
- Q.22 Define Gateway. (CO-6)

SECTION-C

Note: Short answer type questions. Attempt any five questions out of ten. 5x8=40

- Q.23 Explain the types of communication. (CO-3)
- Q.24 Differentiate client/server and peer-to-peer N/Ws. (CO-1)
- Q.25 Explain the functions of presentation layer of OSI model. (CO-6)
- Q.26 Name the service models of Cloud Computing and explain any one of them. (CO-4)
- Q.27 Differentiate Wi-Fi and Bluetooth. (CO-2)
- Q.28 Explain the functions of Network Layer. (CO-4)
- Q.29 Compare all traditional Ethernet standards. (CO-1)
- Q.30 Explain the types and working of bridge.

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- Q.31 Explain wireless LAN protocol MACA. (CO-2)
- Q.32 A company granted the site address(IP) 201.70.64.0. The company needs six subnets. Design the subnets. (CO-3)

SECTION-D

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.33 Define Bluetooth. Name the classes of Bluetooth. Explain the architecture of Bluetooth. Also write four applications of Bluetooth. (CO-2)
- Q.34 Differentiate work group and domain networking. Also explain the role of DHCP server. (CO-3)
- Q.35 Define Topology. Explain various topologies used in computer networks with their advantages and disadvantages. (CO-1)
- Q.36 (a) Explain Sliding Window Protocols. (CO-4)
(b) Differentiate IPv4 & IPv6. (CO-6)

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5th Sem.

Subject : Visual Basic

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note:Objective type questions. All questions are compulsory (10x1=10)

- Q.1 Define database.
- Q.2 What is meant by textbox in VB.
- Q.3 Timer control contains _____number of events.
- Q.4 Mention the use of function in VB.
- Q.5 Differentiate between function and sub procedure.
- Q.6 What is meant by scope of a variable.
- Q.7 Define constructor.
- Q.8 Mention two elements of user interface.

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Q.9 What is meant by menu design window.

Q.10 Define common dialogue control.

SECTION-B

Note:Very short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20

- Q.11 What do you mean by IDE.
- Q.12 What are the data types in VB.
- Q.13 Define time control.
- Q.14 What do you mean by methods.
- Q.15 Define slider controls.
- Q.16 Mention any two rules that should be followed while naming a variable.
- Q.17 Mention the uses of arrays.
- Q.18 Define label box.
- Q.19 What is meant by ActiveX control.
- Q.20 List some important types of ActiveX components in VB.

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Q.21 Differentiate between RDO and ADO.

Q.22 How print method is used.

SECTION-C

Note: Short answer type questions. Attempt any five questions out of ten. $5 \times 8 = 40$

Q.23 Discuss the various features of visual basic.

Q.24 Discuss one dimensional and multi dimensional arrays in detail.

Q.25 How VB supports Integrated Development Environment

Q.26 What do you mean by Function. Explain the concept of function returning data types.

Q.27 What do you mean by procedures. Discuss various types of procedures available in VB in detail.

Q.28 Differentiate between check box and option button.

Q.29 Give various applications of visual basic.

Q.30 What is control menu and pop up menu. Explain with example.

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Q.31 Give various mathematical functions used in visual basic.

Q.32 Explain the properties, events and methods for command button.

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. $3 \times 10 = 30$

Q.33 a) What do you mean by variable. What is its scope. Explain the different variables used in VB.

b) Write a short note on control arrays and its salient features.

Q.34 What are various control structures supported by visual basic.

Q.35 Explain the concept of IDE with the help of labelled diagram.

Q.36 Explain step by step data connectivity in visual basic using DAO control.

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5th Sem. / Computer Engg.

Subject : Comp. Prog. Using Python

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note:Objective type questions. All questions are compulsory (10x1=10)

(Course Outcome/CO)

- Q.1 What is a compiler? (CO-1)
- Q.2 What are environment variables? (CO-1)
- Q.3 What is the Sys Module? (CO-6)
- Q.4 Indentation is compulsory in Python. (T/F)
(CO-2)
- Q.5 Can we make multiple comments in Python?
(CO-2)
- Q.6 What is the extension of a Python program file?
(CO-2)

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Q.7 OOP stands for _____. (CO-9)

Q.8 Give an example of an arithmetic exception.
(CO-7)

Q.9 == is _____ operator. (CO-3)

Q.10 % method is used for _____. (CO-1)

SECTION-B

Note:Very Short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20

- Q.11 What is the use of print function? (CO-6)
- Q.12 Differentiate between break and continue statements. (CO-3)
- Q.13 What are scalar objects in Python? (CO-5)
- Q.14 What are dynamic types? (CO-5)
- Q.15 Write down the syntax of for loop. (CO-3)
- Q.16 Define sets in Python. (CO-4)
- Q.17 What is the use of PYTHONHOME environment variable? (CO-1)
- Q.18 What is the use of dir function? (CO-5)

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- Q.19 Define ASSERT statement. (CO-2)
Q.20 How will you write data to a file? (CO-8)
Q.21 Explain the concept of Greedy Matches.(CO-10)
Q.22 What are quantifiers? (CO-2)

SECTION-C

Note: Short answer type questions. Attempt any five questions out of ten. 5x8=40

- Q.23 What do the following string methods do:(CO-5)
a) lower()
b) count ()
c) replace ()
- Q.24 Write a program in Python to determine whether a number is prime or not. (CO-2)
Q.25 Distinguish between C++ and Python (CO-2)
Q.26 What are the key features of Python? (CO-2)
Q.27 Write down the use of sys and Math module. (CO-6)
Q.28 Differentiate b/w mutable and immutable objects with example. (CO-5)

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- Q.29 Appraise the use of try block and except block in Python with syntax. (CO-7)
Q.30 What are various data flow constructs in Python? (CO-3)
Q.31 Differentiate between lists and types. (CO-5)
Q.32 What are container data types? Explain.(CO-4)

SECTION-D

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.33 Explain inheritance and its types with examples. (CO-9)
Q.34 What is a regular expression? Explain different functions that can be used in regular expressions. (CO-10)
Q.35 What is a file? Explain methods to open, close, read and write files in Python. (CO-8)
Q.36 What are various types of operators used in Python? (CO-3)

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5th Sem. / Computer
Subject : Cloud Computing

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note:Objective type questions. All questions are compulsory (10x1=10)

(Course Outcome/CO)

- Q.1 SAN is _____. (CO-6)
Q.2 What is RR Scheduling? (CO-7)
Q.3 What is the name of Microsoft Cloud? (CO-1)
Q.4 FCFS _____. (CO-7)
Q.5 What is Data loss. (CO-6)
Q.6 What is hybrid cloud. (CO-2)
Q.7 Full form of SaaS. (CO-2)
Q.8 DoS stands for _____. (CO-5)
Q.9 API stands for _____. (CO-6)

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Q.10 AWS is _____. (CO-1)

SECTION-B

Note:Very Short answer type questions. Attempt any ten parts 10x2=20

- Q.11 Write note on cyber attack. (CO-5)
Q.12 Write note on IaaS. (CO-2)
Q.13 Name the key components of SLA. (CO-3)
Q.14 Define SLM. (CO-3)
Q.15 What are the benefits of cloud computing? (CO-1)
Q.16 Write short note on priority queue scheduling. (CO-7)
Q.17 Write two advantages of private cloud. (CO-2)
Q.18 Define E, S and O? (CO-7)
Q.19 List the challenges of cloud storage. (CO-6)
Q.20 What do you mean by Data Center? (CO-6)
Q.21 List two benefits of cloud storage. (CO-6)
Q.22 List any two cloud service provider. (CO-2)

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SECTION-C

Note: Short answer type questions. Attempt any five questions out of ten. 5x8=40

- Q.23 How public cloud differs from private cloud? (CO-2)
- Q.24 Differentiate between static and dynamic scheduling. (CO-7)
- Q.25 Write the concept of Hypervisors in detail? (CO-4)
- Q.26 What is PaaS. Write the benefits of it? (CO-2)
- Q.27 Explain the concept of SAN. (CO-6)
- Q.28 What are the legal issues in Cloud Computing? (CO-5)
- Q.29 What are the various types of Virtualization? (CO-4)
- Q.30 Define Data Leak. What are the major reasons of it? (CO-5)
- Q.31 Explain MLQ scheduling. (CO-7)
- Q.32 What is cloud storage? How it works? (CO-6)

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SECTION-D

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.33 Explain Cloud Computing Write its applications and challenges. (CO-1)
- Q.34 Write short note on following:-
- a) Benefits of Virtualization. (CO-4)
 - b) Scheduling Problem. (CO-7)
- Q.35 What is SLA management process Explain the life cycle of SLA. (CO-3)
- Q.36 Explain various types of scheduling methods in Cloud Computing. (CO-7)

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No. of Printed Pages : 4

Roll No.

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5th sem. / Computer Engg.

Subject : Big Data

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Objectives questions. All questions are compulsory (10x1=10)

(Course Outcome/CO)

- Q.1 RDBMS stands for _____. (CO-1)
- Q.2 Full form of HDFS is _____. (CO-4)
- Q.3 What is Apache Pig? (CO-6)
- Q.4 Define big data? (CO-1)
- Q.5 NAS stands for _____. (CO-5)
- Q.6 jps command is used for _____. (CO-4)
- Q.7 What is Hadoop? (CO-4)
- Q.8 What do you mean by IOT (CO-1)

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Q.9 FCK command is used for _____. (CO-6)

Q.10 Name one running mode of Hadoop. (CO-4)

SECTION-B

Note: Very Short answer type questions. Attempt any ten parts 10x2=20

- Q.11 Define shuffling? (CO-4)
- Q.12 Name two Hadoop vendors? (CO-6)
- Q.13 What do you understand by R? (CO-6)
- Q.14 What is MAP Reduce Technique? (CO-4)
- Q.15 What are edge modes in Hadoop? (CO-4)
- Q.16 a) For directories, the w permission _____.
b) For files, the r permission _____. (CO-3)
- Q.17 Define data frame? (CO-3)
- Q.18 What are some of the data management tools used with Edge nodes in Hadoop? (CO-4)
- Q.19 What is the use of pig in Hadoop? (CO-6)

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- Q.20 Write two characteristics of Big Data? (CO-1)
- Q.21 Define the term velocity? (CO-1)
- Q.22 Define task tracker? (CO-3)

SECTION-C

Note: Short answer type questions. Attempt any five questions out of ten. 5x8=40

- Q.23 How to read data from R? (CO-6)
- Q.24 What are ordered and unordered factors in R? (CO-6)
- Q.25 Explain different modes in which Hadoop runs? (CO-4)
- Q.26 What are big data tools? Explain. (CO-2)
- Q.27 Write about statistical models in R? (CO-6)
- Q.28 How HIVE differs from traditional RDBMS? (CO-6)
- Q.29 Why do we need Hadoop for Big data? (CO-4)
- Q.30 Explain Word Count problem? (CO-4)

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- Q.31 Explain MAP Reduce Architecture? (CO-4)
- Q.32 Explain the core components of Hadoop in detail. (CO-4)

SECTION-D

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.33 Explain Big Data sources, characteristics, benefits and applications. (CO-1)
- Q.34 What is Hive? Explain architecture of Hive and it's applications. (CO-6)
- Q.35 Describe MAP Reduce Technique in detail. Explain its working. (CO-4)
- Q.36 What are five V's in Big Data? (CO-1)

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No. of Printed Pages : 4

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5th Sem. / Computer / IT

Subject : Software Engineering

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Objectives questions. All questions are compulsory (10x1=10)

(Course Outcome/CO)

- Q.1 Name one black box testing method. (CO-7)
- Q.2 What is meant by bottom up approach of program design. (CO-6)
- Q.3 Define the term integrity. (CO-5)
- Q.4 Mention the requirement of testing. (CO-7)
- Q.5 Define coupling. (CO-6)
- Q.6 SRS stands for _____. (CO-1)
- Q.7 Give one difference between verification and validation. (CO-7)

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- Q.8 Give the disadvantages of spiral model. (CO-2)
- Q.9 Write the full form of LOC. (CO-5)
- Q.10 What is meant by project size. (CO-5)

SECTION-B

Note: Very Short answer type questions. Attempt any ten parts 10x2=20

- Q.11 Write the uses of data flow diagrams. (CO-4)
- Q.12 What does software design mean. (CO-2)
- Q.13 Name any two types of cohesion. (CO-6)
- Q.14 Mention any two reasons for the failure of waterfall model. (CO-2)
- Q.15 Write two advantages of using COCOMO for estimating cost. (CO-7)
- Q.16 Mention the features of good software. (CO-3)
- Q.17 What causes Bad SRS document. (CO-1)
- Q.18 How do we define software quality. (CO-3)
- Q.19 Differentiate between static and dynamic system. (CO-1)

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- Q.20 Write two differences between integration testing and unit testing. (CO-7)
- Q.21 What is the use of data dictionary. (CO-4)
- Q.22 List the task regions in spiral model. (CO-2)

SECTION-C

Note: Short answer type questions. Attempt any five questions out of ten. 5x8=40

- Q.23 Compare object oriented and function oriented design. (CO-6)
- Q.24 Mention the various benefits of testing. (CO-7)
- Q.25 Name some basic components of SRS. (CO-1)
- Q.26 Differentiate between walk through and inspection of any software product. (CO-7)
- Q.27 Discuss in brief the various types of coupling. (CO-6)
- Q.28 Which aspects of a software program are tested during unit testing. (CO-7)
- Q.29 Write a short note on data structure oriented design. (CO-6)

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- Q.30 Write differences between programmes and software products. (CO-1)
- Q.31 Write five advantages of waterfall model. (CO-2)
- Q.32 Discuss about various issues related to software coding and testing. (CO-2)

SECTION-D

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.33 Briefly explain the various factors which effect the total cost of project development. (CO-5)
- Q.34 Write short note on software failure. Also differentiate between black box testing and white box testing. (CO-7)
- Q.35 Explain spiral model in detail. Mention its advantages and disadvantages. (CO-2)
- Q.36 What is configuration management. Why it is required. (CO-5)

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