LID-17/2/23(am)

No. of Printed Pages : 4 180831/170831/120831
Roll No. ..... /030831

3rd Sem / Computer Engg.
Subject:- Operating System

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 To access the services of the operating system, the interface is provided by the _____ (CO1)

a) Library b) System calls
c) Assembly instruction d) API

Q.2 In priority scheduling algorithm _____ (CO3)

a) CPU is allocated to the process with highest priority
b) CPU is allocated to the process with lowest priority
c) Equal priority processes can not be scheduled
d) None of the mentioned

Q.3 A system is in the safe state if _____ (CO5)

a) the system can allocate resources to each process in sone order and still avoid a deadlock
b) there exist a safe sequence
c) all of the mentioned
d) none of the mentioned

Q.4 Memory management technique in which system stores and retrieves data from secondary storage for use in main memory is called? (CO6)

a) Fragmentation b) paging
c) mapping d) none of the mentioned

Q.5 When the memory allocated to a process is slightly larger than the process, then_____ (CO6)
a) internal fragmentation occurs
b) external fragmentation occurs
c) both internal and external fragmentation occurs
d) neither internal nor external fragmentation occurs

Q.6 Which of the following command is used to count the total number of lines, words, and character contained in a file? (CO9)
a) wc b) wcount
c) countw d) None of the above

Q.7 Sequential access method_____ on random access devices.
a) works well
b) Doesn't work well
c) maybe works well and doesn't work well
d) none of the mentioned

Q.8 The interval from the time of submission of a process to the time of completion is termed as_____ (CO2)
a) waiting time b) turnaround time
c) response time d) throughput

Q.9 Linux and Windows are the two types of_____ (CO9)
a) Input/output devices
b) Protocols
c) Sequential access memory
d) Operating systems

Q.10 GUI and CUI are the two types of_____ (CO1)
a) Operating System b) Hardware
c) Text d) Interface

SECTION-B

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

Q.11 List types of O.S. (CO1)
Q.12 Define schedulers? (CO3)
Q.13 Whenever a process is created, the O.S. Creates a PCB. (True/False) (CO2)
Q.14 PCB stands for_____. (CO2)
Q.15 Mutual Exclusion is a condition for deadlock. (True/False) (CO5)
Q.16 List various types of file system. (CO1)
Q.17 Memory is allocated to the requesting processes either contiguously or non-contiguously . (True/False) (CO6)
Q.18 PWD command in Linux is used for_____. (CO9)
Q.19 Write one example of dedicated devices.
Q.20 What is Virtual Memory? (CO7)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Explain any five operating system services. (CO1)
Q.22 What is difference between preemptive and non-preemptive scheduling? (CO3)
Q.23 List the various conditions for deadlock to occur. (CO5)
Q.24 Explain the five features of linux. (CO10)

Q.25 Differentiate between dedicated and shared devices. (CO7)

Q.26 What are various memory management functions. (CO6)

Q.27 Discuss various steps of user interfaces provided by an os. (CO1)

Q.28 Discuss any three input devices in brief. (CO5)

Q.29 What are various file management functions. (CO6)

Q.30 What are the differences between Network operating system and Distributed operating system. (CO1)

Q.31 Explain any five file operations. (CO6)

Q.32 What is Deadlock? How it is prevented ? (CO3)

Q.33 Define shortest Job First (SJF) Scheduling algorithm. (CO3)

Q.34 Differentiate between Buffering and spooling? (CO1)

Q.35 Discuss Compaction in brief. (CO1)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 What is scheduler ? Explain various types of scheduler in detail. (CO3)

Q.37 Explain the concept of paging in detail. (CO6)

Q.38 Explain the following Linux command with example:- (CO9)

I) Is ii) cd

iii) date iv) who

v) cat

(**Note:** Course outcome/CO is for office use only)

LID-E2/2/23(M)

No. of Printed Pages : 4
Roll No. .....

180832/170832/120832
/030832/031034/106544

3rd Sem
Subject:- Digital Eltx - I

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 One byte is equal to_____ nibble. (CO2)

a) 1 b) 2
c) 3 d) 4

Q.2 The binary number of decimal numbers 32 is_____. (CO2)

a) (100000)2 b) (101100)2
c) (111111)2 d) (010101)2

Q.3 What are the advantages of the digital systems? (CO4)

a) High-efficiency b) Uses less bandwidth
c) Encryption d) All of the above

Q.4 According to Boolean algebra, which of the following is Valid? (CO5)

a) X+X=1 b) 1.X=1
c) 0.X=X d) X.X=1

Q.5 A half adder consists_____. (CO6)

a) one input one output b) one input two outputs
c) two inputs two outputs d) two inputs one output

Q.6 The output of multiplexer depends on its_____. (CO7)

a) Data outputs b) Data inputs
c) Selected inputs d) None of the above

Q.7 The group of flip-flops is also known as_____. (CO8)

a) Registers b) Counters
c) Encoders d) None of the above

Q.8 How much data the shift register can store? (CO10)

a) only one bit b) only two bits
c) only three bits d) None of the above

Q.9 A four variable K-Map has_____cells. (CO5)

a) 4 b) 16
c) 8 d) 10

Q.10 The base of radix represents_____. (CO10)

a) Number of bits b) Number of digits
c) Number of symbols d) All of the above

SECTION-B

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

Q.11 _____ signal is used in communication process to minimize the effect of noise. (CO1)

Q.12 Which logic unit is the fastest of all the logic families? (CO2)

Q.13 Half adder has_____ number of inputs. (CO5)

Q.14 Name the Boolean Law: (Co6)

$A+B=B+A$

Q.15 PIPO stands for_____. (Co10)

Q.16 A device which converts a decimal number into BCD form is called_____. (CO8)

Q.17 How many NOR gates are required to obtain AND operation? (CO12)

Q.18 How many select lines will a 16 to 1 multiplexer will have. (CO7)

Q.19 How many flip flops are required to construct a decade counter. (CO8)

Q.20 The process of entering data into a ROM is called _____. (CO12)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 i) Define digital signal. (CO1)
ii) Convert $(101011)_2$ into Gray Code (CO3)

Q.22 Perform (Co3)

I) $(16)_{10}-(5)_{10}$ using 1's complement.
ii) $(32.7)_8$ to Binary.

Q.23 Explain NOR gate with its truth table and circuit diagram. (CO4)

Q.24 Simplify the expression $(A+C)(AD+AD^{---})+AC+C$ using Boolean algebra. (CO5)

Q.25 Write short note on four-bit adder. (CO6)

Q.26 Give the basic function of MUX. Draw block diagram and Truth Table of 8x1 MUX. (CO7)

Q.27 Differentiate between synchronous and asynchronous counter. (CO9)

Q.28 What is race around condition? and how it can be removed? (CO8)

Q.29 Write short notes on postulates of Boolean algebra. (CO5)

Q.30 Explain the working of 3-to-8 decoder with truth table? (CO7)

Q.31 Explain the operation of D flip-flop with diagram. (CO7)

Q.32 Explain NOR gate with truth table. (CO4)

Q.33 Explain with diagram about SISO shift register. (CO10)

Q.34 What do you mean by counter? Explain applications of counters. (CO9)

Q.35 Explain successive approximation A/D converter. (CO11)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Draw a k-map to reduce the function and realize the reduced function by using NAND gates. (CO3)
$F=\Sigma m(0,1,2,4,5,6,8,9,12,13,14)$.

Q.37 What is an encoder? Draw the logic circuit of a decimal to BCD encoder and its working. (CO7)

Q.38 Write short note on :

I) . De Morgan's theorem

ii) EPROM (CO3)

(CO12)

(**Note:** Course outcome/CO is for office use only)

No. of Printed Pages : 4
Roll No. .....

220834

3rd Sem. / Computer,
Computer (For Speech and Hearing Impaired)

Subject : Data Base Management System

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Tool developers are

a) Controllers

b) Naive User

c) Actors on Scene

d) Workers behind the Scene

Q.2 E-R model is a type of

a) Record based Model

b) Object based Model

c) Physical Model

d) None of the above

Q.3 To give permission to access a database which command is used

a) Grant b) Revoke

c) Commit d) Permit

Q.4 Which one of the following is not a valid SQL command

a) Alter b) Create

c) Permit d) Update

Q.5 Which one of the following will help to maintain a unique record in the table

a) Primary Key b) Foreign Key

c) Composite Key d) Super Key

Q.6 A row in a table is called

a) attribute b) tuple

c) domain d) entity

SECTION-B

Note: *Objective/* Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define Schema.

Q.8 Expand SQL.

Q.9 Define Record.

Q.10 Define Primary Key.

Q.11 Name any two DDL commands.

Q.12 Expand DBA.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Write the advantages of a database system.

Q.14 Explain data independence.

Q.15 Difference between DBMS & RDBMS.

Q.16 Explain ER Model.

Q.17 Write the components of a Database System.

Q.18 Write the advantages of SQL.

Q.19 Write the activities of a DBA.

Q.20 Who are End Users? Explain its types.

Q.21 Define View. What are its uses? How it is created?

Q.22 What are the duties of a database designer?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain DBMS Architecture.

Q.24 Define Normalisation. Explain various normal forms.

Q.25 Explain the following commands

a) Create

b) Insert

c) Delete

d) Select

LID-25/2/23(M)

No. of Printed Pages : 4 180836/170836/82435
Roll No. .....

Computer Engg
Subject:- Programming in C

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Which access specifier is used to indicate float data type (CO6)

a) %d b) %c
c) %f d) %s

Q.2 How many bytes of memory does a integar data type takes for storage (CO6)

a) 1 b) 2
c) 4 d) 8

Q.3 What is the output of 10/3 (CO7)

a) 3 b) 10
c) 1 d) 0

Q.4 Decrement operator, –, decrease value of variable by what number. (CO7)

a) 2 b) 3
c) 0 d) 1

Q.5 Which of the following is not C keyword. (Co6)

a) if b) switch
c) else d) class

Q.6 Every statement in C language should end with a? (CO3)

a) Dot b) Comma
c) Semicolon d) colon

Q.7 ++ is a _____ operator (CO7)

a) Arithmetic b) Unary
c) Relational d) Logical

Q.8 In which year C was developed (CO3)

a) 1972 b) 1986
c) 1995 d) 2001

Q.9 What does the expression float a = 15 / 0 return (CO7)

a) 0 b) 1
c) Infinity d) not a number

Q.10 What is the extension of C File. (CO6)

a) .c b) .java
c) .txt d) .class

SECTION-B

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

Q.11 Who developed C. (CO6)

Q.12 What is the purpose of Break statement. (CO6)

Q.13 How a pointer is declared. (CO8)

Q.14 Define Constant. (CO3)

Q.15 Define Structure. (CO5)

Q.16 Write the syntax of For Loop. (CO2)

Q.17 Define Algorithm. (CO1)

Q.18 Name any two Keywords. (Co6)

Q.19 Name any two Header Files. (CO6)

Q.20 Define Recursion. (CO8)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Explain input/outpur statements available in C. (CO6)

Q.22 Difference between while & do-while loop. (CO2)

Q.23 Explain Switch statement. (CO2)

Q.24 Explain If statement with example. (CO2)

Q.25 Explain various types of array. (CO4)

Q.26 Difference between high level & low level language (CO3)

Q.27 How comments are written in C. (CO6)

Q.28 Define string. Write any two string related functions. (CO9)

Q.29 Write an algorithm to calculate area of rectangle. (CO1)

Q.30 Write a program to even numbers upto 20 (CO8)

Q.31 Write a program to print factorial of a number.(CO8)

Q.32 Difference between Structure & Union. (CO5)

Q.33 Explain various operators available in C. (CO6)

Q.34 Explain various data types available in C. (CO6)

Q.35 Define flowchart. Draw various symbols used in flowchart. (CO1)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Explain various steps in development of a program. (CO3)

Q.37 Explain various Loops available in C. (CO2)

Q.38 Define Function. Explain its types with example. (Co9)

(**Note:** Course outcome/CO is for office use only)

L 113 - 15/2/23(M)

No. of Printed Pages : 4 180851/170851/120851
Roll No. ..... /030851

Comp, IT, GE
Subject:- Computer Networks

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 WAN stands for_____

a) World area network b) Wide area network
c) Wirelessarea network d) Wide access network

Q.2 Which is not a type of topology?

a) Bus Topology b) Ring Topology
c) Root Topology d) Mesh Topology

Q.3 IP address consist of two parts; these are_____

a) Net ID, Host ID b) Net ID, Class ID
c) Class ID, Host ID d) Class ID, Host ID

Q.4 Which of the following is/are the drawbacks of ring topology?

a) Failure of one host, can affect whole network
b) If the central hub fails, whole network fails.
c) Adding or removing the host disturb the network
d) Both (a) & (c)

Q.5 What is the full form of UDP?

a) User data Protocol
b) User Datagram Process
c) User datagram Protocol
d) Uninterrupted Datagram Protocol

Q.6 Router is used in which layer of OSI model?

a) Physical Layer b) Datalink Layer
c) Network Layer d) Transport Layer

Q.7 In 10base 5 standard, 10 represents the_____ of the Ethernet network.

a) Cable length b) Cable type
c) Data Rate d) None of the above

Q.8 NIC stands for_____

a) Network internet Card
b) Network identification Card
c) Network interface connection
d) Network Interface Card

Q.9 Which of the following is a troubleshoot technique?

a) Ping b) ipconfig
c) traceroute d) All of the above

Q.10 The another name of IEEE 802.3 standard is_____

a) CSMA/CD b) Wi-Fi
c) WiMax d) Bluetooth

SECTION-B

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

Q.11 What is computer network?

Q.12 On the basic of geographical area, how we can classify the network?

Q.13 Name different modes of transmission.

Q.14 What are the advantages of subnetting?

Q.15 In TCP/IP model, IP address is of how many bytes?

Q.16 What is SNMP?

Q.17 What is the use of router in computer networks?

Q.18 What is the full form of HTTP?

Q.19 Define the term "encryption".

Q.20 PING Command displays network connections. Is this statement being True or False?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What is a computer network? What is services are provided by computer networks?

Q.22 Explain functions of networks layer of OSI model.

Q.23 Explain the packet switching with the help of an example.

Q.24 What is mesh topology? What are its advantages and disadvantages?

Q.25 What is an IP address? What are its types?

Q.26 Compare server client and peer to peer network models.

Q.27 What is multiplexing ? Explain its various types.

Q.28 What is IEEE standard 802.3? Explain its working principle.

Q.29 What is a Hub? What are its types?

Q.30 Differentiate between IPv4 and IPv6.

Q.31 Explain briefly about server management.

Q.32 What is troubleshooting in computer networks? What steps are followed in troubleshooting?

Q.33 Discuss the role of cryptography in computer networking.

Q.34 How PING and TRACEROUTE are used in network troubleshooting?

Q.35 What are the advantages and disadvantages of Wi-Fi?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Explain TCP/IP model with diagram in detail.

Q.37 What is Ethernet? Explain its working principle. Also give the electrical specifications of Ethernet.

Q.38 Write a short note on any two of the following:

a) Gateway

b) Ring topology

c) Bluetooth technology

LID-20/2/23 (M)

No. of Printed Pages : 4 180852/170852/120852B
Roll No. .....

Computer Engg.
Subject:- Web. dev. Using PHP / PHP

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Which is not the attribute of frame tag.

a) Frame border b) Frame slider
c) Margin width d) Scrolling

Q.2 Cell spacing attribute defines the_____ of the border.

a) Spacing b) Height
c) Width d) None of the above

Q.3 How many data types available in PHP.

a) 4 b) 9
c) 5 d) 8

Q.4 Which function is use to convert first letter of string into capital letters.

a) Ucfirst b) Strupper
c) Strtoupper d) Strupl

Q.5 Which function is used to create a cookie.

a) create_cookie() b) createcookie()

c) Setcookie () d) Set_cookie()

Q.6 What is the use of $_SESSION variable?

a) to set session b) to destroy session

c) to reset session d) to create session

Q.7 Which is not the name of database.

a) Mysql b) Cyber base

c) Sybase d) Mango DB

Q.8 Which keyword is use to create a function in PHP

a) create b) func

c) function d) None of the above

Q.9 An array with Numeric index is called as

a) Numeric array

b) Multidimensional array

c) Associative array

d) All of the above

Q.10 === is known as_____Operator in PHP

a) Assignment operator

b) Equal to operator

c) Identical Comparison operator

d) Relational operator

SECTION-B

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

Q.11 What is session?

Q.12 What is the use of array-keys() function?

Q.13 What is TCL?

Q.14 How to set table heading.

Q.15 How many types of links in HTML?

Q.16 Names the scopes available in PHP.

Q.17 Write the syntax of for-each loop.

Q.18 Write the names of methods use to send the data in form tag.

Q.19 How cookie is deleted.

Q.20 Who is the father of html?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What is Cookie and how it is set?

Q.22 What is MySQL. Write its features?

Q.23 What is the difference between call by value and reference?

Q.24 What is the difference between Get and Post method.

Q.25 Discuss the procedure of create and destroy session.

Q.26 What is associative array. Give example.

Q.27 Explain for loop with example.

Q.28 Write a note on PHP. INI file.

Q.29 What is CSS? Explain.

Q.30 How functions are created in PHP.

Q.31 What is various data types of variables.

Q.32 What is the use of frames in HTML? Explain.

Q.33 What do you understand by Colspan and Rowspan?

Q.34 Write the name of various form controls in html.

Q.35 Discuss switch case statement.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Discuss the type of operators in PHP with examples

Q.37 Discuss array and its types with suitable example.

Q.38 Design any webpage using CSS.

LIB- 11/2/23(M)

No. of Printed Pages : 4 180853/170853
Roll No. .....

Comp. Engg.
Subject:- Comp. Prog. Using. Python

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Python Programming Language is developed by _____ (CO1)

a) Guido Van Rossum b) Wick Van Rossum
c) Niene Stom d) Richard

Q.2 Which of the following is not a string method in Python? (CO2)

a) Lower() b) upper ()
c) Capitilize () d) void main ()

Q.3 Which of the following is a decision making statement in Python? (CO3)

a) for b) if-else-statement
c) while d) do-while

Q.4 How to access a value in List? (CO5)

a) mylist () b) mylist[]
c) mylist {} d) none

Q.5 Lambda function can have_____ (CO5)

a) any no. of argument and any no. of expression
b) one argument and one expression

c) any no. argument and only one expression
d) one argument and any no. of expression

Q.6 The following is not the standard module-math function. (CO6)
a) math.sqrt() b) math.log()
c) math.pow () d) math.datetime()

Q.7 Which of the following is not a common exception in Python. (CO7)
a) zero division error b) indentation error
c) name error d) Syntax error

Q.8 Which function is used to open a file in Python? (CO8)
a) file () b) new()
c) open() d) none of the above

Q.9 _____is an real world entity that has state and behavior. (CO9)
a) class b) object
c) method d) constructor

Q.10 Which module in Python supports regular expression ? (CO10)
a) re b) regx
c) Pyregx d) none of above

SECTION-B

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

Q.11 IDLE stands for_____ (CO1)

Q.12 *is a _____string operator. (CO2)

Q.13 Looping is used to execute the statement again and again . (T/F) (CO3)

Q.14 Functions in Python will always return a value. (T/F) (CO5)

Q.15 Give the purpose of print function. (CO5)

Q.16 Name two types of scope of variables in Python. (CO4)

Q.17 How many except statement can a try block have? (CO7)

Q.18 Syntax of creating a class in python is_____ (CO9)

Q.19 Define object. (CO9)

Q.20 Write greedy match quantifiers used in Python. (CO10)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Write down key features of Python programming language? (CO1)

Q.22 Explain any five string functions used in Python. (CO2)

Q.23 What are various decision making statement. Give example. (CO3)

Q.24 Write a program to print the table of the given number? (CO3)

Q.25 Define list. Explain any four list function. (CO4)

Q.26 Difference between list and tuple. (CO4)

Q.27 Explain Dictionary and how it is created in Python? (CO1)

Q.28 What is function ? Why functions are required? (CO6)

Q.29 What is module? Write down importance of module in python. (CO6)

Q.30 Explain assert statement with example. (CO7)

Q.31 How you can create a file in Python? Explain with example. (CO8)

Q.32 Difference between Object-Oriented Programming and Procedural Programming. (CO9)

Q.33 Explain the concept of Greedy Match. (CO10)

Q.34 Write down the special character used in regular expression ? (CO10)

Q.35 What is exception and how it is handled in Python? (CO7)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Write short notes with example on (CO3)

a) for loop

b) while loop

Q.37 Write different ways to pass argument to function using example. (CO5)

Q.38 Explain inheritance and its types with example. (CO9)

(**Note:** Course outcome/CO is for office use only)

2/3/23 (M)

No. of Printed Pages : 4 180854A/170854A
Roll No. .....

Computer Engineering
Subject:- Cloud Computing

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Which of the following are the features of cloud computing? (CO9)

a) Security
b) Scalability
c) Large Network Access
d) All of the mentioned

Q.2 Cloud computing is an abstraction based on the notion of pooling physical resources and presenting them as a _____resource. (CO9)

a) Real b) Virtual
c) Cloud d) None of the mentioned

Q.3 Which of the following is not a property of cloud computing? (CO9)

a) Virtualization b) Composability
c) Scalability d) all of the mentioned

Q.4 Which of the following service is provided by Google for online storage? (CO7)

a) Drive b) Sky drive
c) Dropbox d) All of the mentioned

Q.5 In Scheduling, MLFQ is : (CO6)

a) Multiple Level Form Queue
b) Multi Level Full Queue
c) Multiple Level Full Queue
d) Multi Level Feedback Queue

Q.6 Which of the following subject area deals with pay-as-you-go usage model? (CO2)

a) Accounting Management
b) Compliance
c) Data Privacy
d) All of the mentioned

Q.7 Which one of the following is a kind of technique that allows sharing the single physical instance of an application or the resource among multiple customers? (CO5)

a) Virtualization
b) Service-oriented Architecture
c) Grid Computing
d) Utility Computing

Q.8 In order to participate in cloud computing, you must be using: (CO9)

a) Linux b) Mac OS
c) Windows d) All of the mentioned

Q.9 Through which one of the following models, SaaS supports multiple users and offers a shared data model? (CO1)

a) Single-tenancy b) Multiple-instance
c) Multi-tenancy d) None of the mentioned

Q.10 Storing and accessing data over the internet is called (CO1)

a) Cloud b) Scheduling
c) Virtualization d) Grid

SECTION-B

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

Q.11 Public cloud is most secure.(True/False) (CO8)

Q.12 PaaS stands for_____. (CO2)

Q.13 Private cloud is bigger than public cloud.(True /False) (CO3)

Q.14 Name any two cloud service providers. (CO3)

Q.15 FCFS is a type of scheduling in cloud. (True/False) (CO6)

Q.16 AWS stands for_____. (CO3)

Q.17 SAN stands for_____.. (CO7)

Q.18 Name any two deployment models. (CO3)

Q.19 What is name of Amazon cloud? (CO3)

Q.20 Azure cloud platform is provided by_____ (CO3)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Discuss about evolution of cloud computing. (CO1)

Q.22 Explain any five characteristics of cloud computing. (CO1)

Q.23 Explain IaaS model along with its advantages.(CO2)

Q.24 List various advantages and disadvantages of SaaS service model. (CO2)

Q.25 Give overview of service level agreement. (CO4)

Q.26 Explain SLA life cycle along with suitable block diagram. (CO4)

Q.27 Discuss in brief about different types of vertualization. (CO5)

Q.28 Define hypervisor. Explain different types of hypervisors. (CO5)

Q.29 Discuss about infrastructure security in cloud computing. (CO8)

Q.30 Explain about various legal issues in cloud computing. (CO8)

Q.31 Discuss storage as a service. List various benefits of cloud storage. (CO7)

Q.32 Explain storage area networks. (CO7)

Q.33 Describe scheduling problem in cloud. (CO6)

Q.34 Discuss about scheduling of independent and dependent tasks. (CO6)

Q.35 Explain static scheduling in cloud. (CO6)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Explain cloud computing. Write its applications and benefits. (CO1)

Q.37 Explain various deployment models in detail. Discuss which model is best for private organization and why? (CO3)

Q.38 Explain different types of scheduling in cloud computing. (CO6)

(**Note:** Course outcome/CO is for office use only)