

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)

(Accredited by NAAC with 'B' Grade)

ODD SEMESTER [2020-2021]

INTERNAL ASSESSMENT TEST – II

Programme : II B.Sc(IT) (A&B)

Course Code : 17UITA31

Course Title : Digital Principles and Computer Organization

Date: 23.11.20

Time:10 -12am

Max Marks: 50

Section A

[Answer ALL the Questions]

9X1=9

1. The addition of 2 binary digits is done by_____ circuit.
a)half adder b)full adder c)BCD adder d)Parallel adder
- 2.The binary subtraction of two numbers 10-1 produces result as _____
a)10 b)11 c)1 d)0
- 3.The 1's complement of $(101100)_2$ is
a)101101 b)010010 c)001111 d)010011
- 4.16 to 1 MUX which has ___input bits, 4 control bits.
a)0 b)4 c)8 d)16
- 5.An Encoder has _____ input lines and _____ output lines.
a) $2^n, n$ b) n^2, n c) $n, 2$ d) n, n^2
- 6.Parity bit is used for _____ errors.
a)Generating b)Detecting c)Defining d)Correcting
- 7._____ has a high output only when an odd number of inputs is high.
a)OR b)NOR c)XOR D)POR
- 8.A _____ is a logic circuit with one input and many outputs.
a)Multiplexers b)Demultiplexers c)parity checker d)parity generators
- 9._____ encoder gives priority to the highest order input.
a)IC 74147 b)IC74154 c)IC74150 d)IC 74146

Section B

[Answer ALL the following]

3X7=21

10. a)Write down the four rules for binary addition.. [OR]
b)How is 2's complement representation used to perform subtraction?
- 11.a)What is Multiplexer? Draw a diagram for 4 to 1 MUX and explain it. [OR]
b)Discuss the XOR gates with its truth tables.
- 12.a)Write short notes on Decoder. [OR]
b)Discuss about Parity checker and parity generator.

Section C

[Answer ANY TWO of the following]

2X10=20

- 13.Explain about the Half adder and Full adder.
- 14.Describe about 1 -of-16 decoder in detail.
- 15.Explain seven segment decoder.

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ODD SEMESTER [2020-21]
INTERNAL ASSESSMENT TEST – II

Programme	: II IT (A&B)	Date : 19.11.2020
Course Code	: 17UITC31	Time : 10.00 am -12.00 pm
Course Title	: Object Oriented Programming Using C++	Max Marks : 50

Section A

[9 x 1 = 9]

[Answer **ALL** the questions]

1. Which of the following operators cannot be overloaded ?
a) ++ b) << c) -- d) ?:
2. Which of the following access specifier is used as a default in a class definition?
a) Private b) Friend
c) Public d) Protected
3. Which of the following is a mechanism of static polymorphism?
a) Pointers b) Operator overloading
c) Objects d) Class
4. A base class may also be called a
a) Child class b) derived class
c) sub class d) parent class
5. Which is an indirection operator among the following
a) & b) << c) * d) ?
6. Which is the correct example of a binary operator?
a) + b) -- c) + d) *
7. overloaded by means of a member function, take no explicit arguments and return no explicit values.
a) Binary Operator b) Unary operator
c) Arithmetic Operator d) Function Operator
8. What we can't do on a void pointer?
a) pointer arithmetic b) pointer function
c) pointer objects d) pointer
9. Overloading is otherwise called as
a) virtual polymorphism b) transient polymorphism
c) pseudo polymorphism d) ad-hoc polymorphism

Section B

[3 x 7 = 21]

[Answer **ALL** the questions]

- 10.a) Briefly explain pointer with example program. [OR]
b) Explain Function Overloading with one example.
- 11.a) When is a friend function? Give an example. [OR]
b) What is a virtual function? Give an example.
- 12.a) Write short notes on dynamic binding and protected members. [OR]
b) Explain Member functions with examples .

Section C

[2 x 10 = 20]

[Answer **ANY TWO** question]

13. Define Inheritance .Explain various types of Inheritance with examples.
14. Define Polymorphism .Explain types of polymorphism with examples.
15. Explain Formatted I/O.

INTERNAL ASSESSMENT TEST – II

Programme : **II IT (A&B)**
Course Code : **17UITC32**
Course Title : **Data Structures**

Date : 20.11.2020
Time : 10.00 am -12.00
Max Marks : **50**

Section A

[9x 1 = 9]

[Answer **ALL** the questions]

1. The number of edges from root to the node is called _____ of the tree
 - a. height
 - b. depth
 - c. length
 - d. width
2. What is full binary tree?
 - a. each node has exactly zero or two children
 - b. each node has exactly two children
 - c. all the leaves are at the same level
 - d. each node has exactly one or two children
3. What is the average case time complexity for finding the height of the binary tree?
 - a. $h=O(\log \log n)$
 - b. $h=O(n \log n)$
 - c. $h=O(n)$
 - d. $h=O(\log n)$
4. In a full binary tree if number of internal nodes is l , then number of leaves L are?
 - a. $L=2^{*}l$
 - b. $L=l+1$
 - c. $L=l-1$
 - d. $L=2^{*}l-1$
5. Descending priority queue can be implemented using _____
 - a. max heap
 - b. Min heap
 - c. min-max heap
 - d. trie
6. Min heap can be used to implement selection sort
 - a. true
 - b. false
7. Which of the following is not a stable sorting algorithm
 - a. Insertion sort
 - b. selection sort
 - c. Bubble sort
 - d. Merge sort
8. Which of the following is the stable sorting algorithm
 - a. Merge sort
 - b. heap sort
 - c. selection sort
 - d. Shell sort
9. If the number of records to be sorted is small, then _____ sorting can be efficient
 - a. Merge
 - b. Heap
 - c. Selection
 - d. Bubble

Section B

[3 x 7 = 21]

[Answer **ALL** the questions]

10. a. How to represent a binary explain. (or)
b. Draw a tree for the following expression and write a post order traversal for the expression
 $a+b*c*d*e/f-x+y+z$
11. a. Write a short note on Max heap tree (or)
b. Describe how deletion affects a min heap tree with example
12. a. Define sorting with example (or)
b. Explain Insertion sort with example

Section C

[2 x 10 = 20]

[Answer **ANY TWO** question]

13. Write a detailed note about Binary tree traversal
14. Write an algorithm for creation and insertion of a Binary search tree
15. Explain in detail about Selection sort with example.

Reg. No:

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ODD SEMESTER [2020-2021]
 INTERNAL ASSESSMENT TEST – II

Programme : **III IT(A&B)**
 Course Code : **17UITC51**
 Course Title : **Data Communication and Computer Networks**

Date : 17.11.2020
 Time : 10.00 am -12.00 pm
 Max Marks : **50**

Section A

[9 x 1 = 9]

[Answer **ALL** the questions]

1. _____ is a network that this technology connects sites that are in diverse locations.

a) LAN	b) MAN
c) WAN	d) SAN
2. In a _____ connection, three or more devices share a link.

a) multipoint	b) point-to-point
c) protocol	d) peer-to-peer
3. In wireless ad-hoc network _____

a) access point is not required	b) access point is must
c) nodes are not required	d) all nodes are access points
4. Which multiple access technique is used by IEEE 802.11 standard for wireless LAN?

a) CDMA	b) CSMA/CA
c) ALOHA	d) CSMA/CD
5. In wireless distribution system _____

a) only one access point exists	b) access points are not required
c) there is no access point	d) multiple access point are inter-connected with each other
6. Next-Hop Method is used to reduce contents of a _____.

a) Revolving table	b) Rotating Table
c) Routing Table	d) Re-allocate table
7. Which of the following is not applicable for IP?

a) Error reporting	b) Handle addressing conventions
c) Datagram format	d) Packet handling conventions
8. Network addresses are a very important concept of _____.

a) Routing	b) Mask
c) IP Addressing	d) Classless Addressing
9. Which type of Ethernet framing is used for TCP/IP and DEC net?

a) Ethernet 802.3	b) Ethernet 802.2
c) Ethernet II	d) Ethernet SNAP

Section B

[3 x 7 = 21]

[Answer **ALL** the questions]

- 10.a) Describe the WAN Transmission methods. [OR]
- b) What is fast Ethernet and gigabit Ethernet?
- 11.a) Explain WLAN Applications. [OR]
- b) Explain about IEEE standards.
- 12.a) Describe FDDI.[OR]
- b) Explain about Distributed Queue Dual Bus(DQDB)

Section C

[2 x 10 = 20]

[Answer **ANY TWO** question]

13. What is IPv4 ? Explain class full addressing scheme of IPv4 ?
14. Explain the multi path routing algorithm.
15. Explain wireless LAN in details.

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ODD SEMESTER [2020-2021]

INTERNAL ASSESSMENT TEST – II

Programme : III B.Sc(IT) (A&B)

Course Code : 17UITC52

Course Title : SOFTWARE ENGINEERING

Date: 18-11-20

Time: 10.00 -12.00

Max Marks: 30

Section A

[Answer ALL the Questions]

9X1=9

2. Which notations are based on the concepts of entities and attributes.
 - a) Formal
 - b) State
 - c) Informal
 - d) Relational
3. Which expressions can be used to specify the syntactic structure of symbol strings.
 - a) Logical
 - b) Regular
 - c) Irregular
 - d) Arithmetic
3. _____ tables are used to specify changes in the state of a system as a function of driving forces.
 - a) Petri nets
 - b) Event
 - c) Decision
 - d) Transition
4. _____ coupling involves the use of parameter lists to pass data items between routines.
 - a) Content
 - b) Control
 - c) Stamp
 - d) Data
5. _____ cohesion occurs when the elements within a module have no apparent relationship to one another.
 - a) Logical
 - b) Coincidental
 - c) Temporal
 - d) Logical
6. Expansion of HIPO
 - a) Hierarchy-Process-Input-Output
 - b) Higher-Process-Input-Output
 - c) Hierarchy-Process-Inter-Outer
 - d) Hierarchy-Preparation-Input-Output

Section B

[Answer ALL the following]

3X7=21

- 10.a) List out the software requirements specification and explain it. [OR]
 - b) Discuss about structured analysis and design techniques.
- 11.a) List out steps preparation of GIST. [OR]
 - b) Discuss about any two fundamental design concepts.
- 12.a) Explain about Dataflow diagram.[OR]
 - b) Explain about structure charts and HIPO diagrams.

Section C

2X10=20

[Answer ANY TWO question]

13. Discuss in details about PSL/PSA
14. Explain about any three state oriented notations.
15. Explain various types of coupling and cohesions

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ODD SEMESTER [2020 - 2021] INTERNAL

ASSESSMENT TEST – II

Programme : III B.Sc(IT) (A&B)
Course Code : 17UITC53
Course Title : JAVA PROGRAMMING

Date: 19.11.20
Time:10 -12am
Max Marks: 50

Section A

[Answer ALL the Questions]

9X1=9

1. What does AWT stands for?
(a) All Writing Tools (b) Abstract Window Toolkit
(c) Abstract Writing Toolkit (d) All Window Tools
2. Which package provides many event classes and Listener interfaces for event handling?
a) java.awt b) java.awt.Graphics c) java.awt.event d) None of the above
3. In Graphics class, which method is used to draws a rectangle with the specified Width and height?
(a) public void draw Rect(int x, int y, int width, int height)
(b) public abstract void fillRect (int x, int y, int width, int height)
(c) public abstract void drawLine(int x1, int y1, int x2, int y2)
(d) public abstract void drawOval(int x, int y, int width, int height)
4. In which layout NORTH, SOUTH, EAST, WEST regions available?
(a) FlowLayout (b) GridLayout (c) BorderLayout (d) CardLayout
5. Java applet are used to create _____ applications.
(a) graphical (b) user interactive
(c) both (a) and (b) (d) none of the above
6. Which of the following is used to interpret and execute Java Applet Classes Hosted by HTML?
(a) Appletviewer (b) Appletscreen
(c) Appletwatcher (d) Appletshow
7. When applet is dead, it automatically invokes the _____ method when We quit the browser.
(a) Paint() (b) Stop()
(c) Destroy() (d) Final()
8. In applet, which of the following is used for accepting user defined parameter?
(a) Body (b) Centre
(c) Applet (d) Param
9. In which package, thread class is available?
(a) Java.util (b) Java.io
(c) Java.lang (d) Java.awt

Section B

[Answer ALL the following]

3X7=21

10. a) Differentiate between the component and container class [OR]
b) Discuss the use of any two AWT controls with examples
11. a) Explain any four methods in graphics package with examples [OR]
b) Write an applet to draw the human face. [OR]

12. a) Explain the life cycle of applet. [OR]
b) What are the benefits of multi-threaded programming?

Section C

[Answer ANY one of the following]

2X10=20

13. What is an event? List out the different mouse event.
14. Discuss the method for passing parameters to applets with illustrative program.
15. How can we create a Thread in Java? What are different states in lifecycle of Thread? How does thread communicate with each other?



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ODD SEMESTER [2020-21]
INTERNAL ASSESSMENT TEST – II

Programme : **III IT (A&B)**
 Course Code : **17UITE52**
 Course Title : **Cryptography and
 Network security**

Date : 20.11.2020
 Time : 10.00 am -12.00
 Max Marks : **50**

Section A

[9x 1 = 9]

[Answer **ALL** the questions]

- When a hash function is used to provide message authentication , the hash function value is referred to as
 a. Message field b. Message Digest c. Message Score d. Message Leap
- Message authentication code is also known as
 a. key code b. Hash code c. Keyed hash function d. message key function
- Which one of the following is not an application of hash function
 a. one-way password file b. key wrapping c. virus detection d. Intrusion detection
- SHA-1 produces a hash value of
 a. 256 bits b. 160bits c. 180bits d. 128bits
- Another name of message authentication code is
 a. cryptographic code break b. cryptographic code sum
 c. cryptographic checksum d. cryptographic checkbreak
- Digital signature is a mathematical technique which validates?
 a. authenticity b. Integrity c. Non repudiation d. all
- How many algorithm digital signatures consists of?
 a. 2 b. 3 c. 4 d. 5
- For each _____ the kerberos key distribution center (KDC) maintains a database of the realm’s principal and the principal’s associated “secret keys”
 a. key b. Realm c. document d. none
- For a client -server authentication , the client request from the KDC a _____ for access to a specific asset
 a. ticket b. local c. Token d. user

Section B

[3 x 7 = 21]

[Answer **ALL** the questions]

- 10.a. What are the requirements of Hash function? (or)
 b. Explain in detail about ElGamal.
- 11.a. What is the order of finding two message having the same message digest? (OR)
 b. List out the design objective of HMAC.
- 12.a. Explain the authentication procedure defined by X.509 (or)
 b. What are the main features of Kerberos version 5

Section C

[2 x 10 = 20]

[Answer **ANY TWO** question]

13. Describe the steps in finding Message digest using SHA-512 Algorithm
14. Describe the various digital signature schemes
15. Write a detailed note on E-mail security.



G.T.N. ARTS COLLEGE (Autonomous), Dindigul
Odd Semester (2020 – 2021)
OBE Regulation – 2020
Continuous Internal Assessment Test – II

Programme : B.Sc Information Technology

Semester:I

Class : I

Date: 8.1.2021

Course Title : Introduction to Programming

Time: 10 To 12

Course Code: 20UITC11

Max. Marks: 45

Course Outcomes (COs):

CO1	Explain the Linux files systems, Linux Commands and process status.
CO2	Classify various Control structures and Operators.
CO3	Explain Functions and Arrays.
CO4	Experiment Structures and Union.
CO5	Make use of Pointers and Files in various programs.

Qn. No.	Section – A Answer ALL the Questions (6 x 1 = 6)	CO(s)	K – Level
1	Which of the following function declaration is illegal? a. int 1fun(int); b. int 1fun(int a); c. int 2fun(int*,int[]); d. all	CO3	K1
2	The value obtain in the function is given back to main by using _____ keyword a. return b. static c. new d. volatile	CO3	K2
3	Which of the following operation is illegal in structures a. typecasting of structure b. pointer to variable of the same structure c. dynamic allocation of memory for structure d. all the mentioned above	CO4	K2
4	Member of a union are accessed as _____ a. union-name.member b. union-pointer->member c. both d. none	CO4	K2
5	Comment on the following pointer declaration int *ptr,p; a. ptr is a pointer to integer, p is not b. ptr and p, both are pointer to integer c. ptr is a pointer to integer, p is may or may not be d. ptr and p, both are not pointer to integer	CO5	K2
6	Which of the following is correct syntax to send an array as a parameter function? a. func(&array) ; b. func (#array); c. func(*array); d. func(array[size]) ;	CO5	K2
Qn. No.	Section – B Answer ALL the Questions (5 x 3 = 15)	CO(s)	K – Level

7	A	Describe recursion function with example	CO3	K2
	OR			
	B	Write a C program using array concept to sort 10 numbers.	CO3	K3
8	A	Define user defined data type with example	CO4	K1
	OR			
	B	Explain Union with example program	CO4	K2
9	A	Write a program and describe the Structure concept	CO4	K1
	OR			
	B	Discuss in detail about passing structure to function	CO4	K2
10	A	Describe the pointer concept.	CO5	K2
	OR			
	B	Explain command line arguments	CO5	K1
11	A	Write a note on pointers with function	CO5	K1
	OR			
	B	Write a c program for pointer with array	CO5	K2

Qn. No.		Section – C Answer ALL the Questions (3 x 8 = 24)	CO(s)	K – Level
12	A	Define passing array to function with example	CO3	K1
	OR			
	B	Write a c program to implement multi-dimensional array concept for matrix addition	CO3	K3
13	A	Explain in detail about nested structures with example program	CO4	K2
	OR			
	B	Discuss in detail about structure to function with suitable example	CO4	K3
14	A	Write a C program pointers with structures	CO5	K2
	OR			
	B	Determine how opening and closing of a file performed in C programming	CO5	K3



G.T.N. ARTS COLLEGE (Autonomous), Dindigul
Odd Semester (2020 – 2021)
OBE Regulation – 2020
Continuous Internal Assessment Test – II

Programme : BBA

Semester: I

Class : I

Date: 11.1.2021

Course Title: Fundamental of Information Technology

Time: 10 TO 12

Course Code: 20UITN11

Max. Marks: 45

Course Outcomes (COs):

CO1	Relate the basics of computer system and its architecture.
CO2	Describe the Central Processing Unit and Memory.
CO3	Classify the various Input and Output Devices
CO4	Explain about Computer software and its type.
CO5	Make use of Internet and Build the Web documents.

Qn. No.	Section – A Answer ALL the Questions (6 x 1 = 6)	CO(s)	K – Level
1	Picture elements are known as _____ a)Pixels b)Picelement c)pigment d)picment	CO3	K1
2	ppm stands for a) packet per minute b)pages per minute c)program per minute d)process per minute	CO3	K1
3	_____ transforms the high-level languages into machine code. a)Loader b)Linker c)Compiler d)Assembler	CO4	K1
4	Application software also called as _____ a)Debuggers b)Utilities c)Interpreter d)End user Programs	CO4	K1
5	_____ topology consists of a main run of cable with a terminator at each end. a)Linear bus b)Star c)Ring d) Tree	CO5	K1
6	_____ are used to access pages of the world wide web a)GitHub b)Web Browsers c)HTML d)Web apps	CO5	K1
Qn . No.	Section – B Answer ALL the Questions (5 x 3 = 15)	CO(s)	K – Level
7	A Explain different type of monitors based on color.	CO3	K2

	OR			
	B	Compare between laser printer and an LCD printer	CO3	K2
8	A	What is computer software? Why does computer need both hardware and software.	CO4	K1
	OR			
	B	Define different types of software?	CO4	K1
9	A	Explain the Concept of Interrupts.	CO4	K2
	OR			
	B	Write short notes on: a)Operating System b)Compiler and Interpreters	CO4	K2
10	A	Explain the term network topology.	CO5	K2
	OR			
	B	Explain about Network Architecture	CO5	K2
11	A	Explain about IP Addressing.	CO5	K2
	OR			
	B	What is browsers and how does it work?	CO5	K2
Qn. No.	Section – C Answer ALL the Questions (3 x 8 = 24)		CO(s)	K – Level
12	A	What are the different types of printers and write its characteristics.	CO3	K1
	OR			
	B	Explain the working principles of CRT and flat panel monitors.	CO3	K2
13	A	Explain how the computer executes a high level program.	CO4	K2
	OR			
	B	What is Fetch-Decode-Execute cycle? Explain.	CO4	K2
14	A	Explain the star network topology with a diagram?	CO5	K2
	OR			
	B	Describe the world wide web	CO5	K2

G.T.N. ARTS COLLEGE (Autonomous), Dindigul
Odd Semester (2020 – 2021)
OBE Regulation – 2020
Continuous Internal Assessment Test – II

Programme: B.Sc. Information Technology

Semester: I

Class: I B.Sc. IT (A & B)

Date: 12.01.2021

Course Title: Value Education

Time: 2 Hrs

Course Code: 20UVEV11

Max. Marks: 45

Course Outcomes (COs):

CO1	Trace their personality and social values based on the principles of human values
CO2	Relate a sense of Love, Peace and Brotherhood at the local, national and international level
CO3	Identify the social realities and inculcate essential value system towards building a healthy society
CO4	Employ the knowledge of professional values in life
CO5	Associate the role in social institutions, family and constitutional values

Qn. No.	Section – A Answer ALL the Questions (6 x 1 = 6)	CO(s)	K – Level
1	_____ justice is concerned with equal justice not just in the courts, but in all aspects of society a) secure b) spirit c) service d) social	CO3	K1
2	NHRC Stands for _____ a) National Human Rights Committee b) National Human Rules Committee c) National Human Rights Commission d) National Human Rules Commission	CO3	K2
3	_____ refers to honesty and open mindedness a) integration b) integrity c) truth d) loyal	CO4	K1
4	_____ is defined as an enthusiastic attitude towards working or playing together with other people as a team a) Team spirit b) Empathy c) Reliability d) Sincerity	CO4	K2
5	_____ means any person who serves as an example whose behavior is emulated by others a) Role model b) Nuclear c) Independent d) Quality	CO5	K1
6	A _____ group is a social group consisting of people who are equal in age, education or social class a) teamb) peer c) social d) independent	CO5	K2
Qn. No.	Section – B Answer ALL the Questions (5 x 3 = 15)	CO(s)	K – Level
7	A What is Gender Justice?	CO3	K1
	OR		
	B State the importance of human rights.	CO3	K2
8	A What is social justice?	CO3	K1
	OR		

	B	Explain the covenants of “human Rights”.	CO3	K2
9	A	Define the term Professional Values?	CO4	K3
	OR			
	B	What is meant by “Willingness to learn”? Why “Willingness to learn” important in any profession?	CO4	K1
10	A	Discuss the various aspects of team spirit.	CO4	K2
	OR			
	B	Why should we respect others?	CO4	K1
11	A	Explain the role of family in value formation.	CO5	K2
	OR			
	B	Explain how family helps to inculcate social values among children.	CO5	K2

Qn. No.		Section – C Answer ALL the Questions (3 x 8 = 24)	CO(s)	K – Level
12	A	What are the issues of social integration?	CO3	K1
	OR			
	B	Explain the various agencies of protecting human rights.	CO3	K2
13	A	Why accountability is considered very important in any profession?	CO4	K1
	OR			
	B	Explain the term Integrity and Commitment	CO4	K2
14	A	What is the role of media in spreading social values in society?	CO5	K1
	OR			
	B	Who is your role model? Why did you choose to be so?	CO5	K1

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ODD SEMESTER [2020-2021]
INTERNAL ASSESSMENT TEST – III

Programme : **III IT (A&B)**

Course Code : **17CINF51**

Course Title : **OPEN SOURCE PROGRAMMING WITH LAMP**

Date : 17.12.2020

Time : 02.00 – 04.00 PM

Max Marks : 50

SECTION A

[6 x 5 = 30]

[Answer Any Six questions]

1. Define web server?
2. Differentiate between GET and POST Methods?
3. Write 2 control loops in PHP?
4. Explain 3tier Architecture.
5. Differentiate between Session and Cookies.
6. Write a condition statement in Java Script
7. Explain DDL Queries in MySql.
8. How to combine HTML and PHP code on single page?

SECTION B

2 x 10 = 20]

[Answer Any Two questions]

9. Explain validation form using Javascript.
10. Design College application form website using HTML .
11. Write syntax of Connecting PHP Webpage with MySQL

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ODD SEMESTER [2020-2021]
INTERNAL ASSESSMENT TEST – III

Programme : III B.Sc(IT) (A&B)
Course Code : **17UEVS51**
Course Title : EVS

Date: 16.12.2020
Time: 10.00 -12.00
Max Marks: 50

Section A
[Answer **ANY Five** question]

[5x 4 = 20]

1. Write a note on Components of Environment.
2. Discuss about E-waste and Cloud Bursting.
3. Explain about Producer and Consumer.
4. Brief about Conservation of waste into Wealth.
5. Give a note on Environmental pollution
6. Explain in detail about Types of Bio-diversity
7. Write a note on Hot Sots and Cool Spots In Bio-diversity

Section B
[Answer **ANY Three** question]

[3 x 10 = 30]

8. Write about Global Environmental Issues.
9. Give a detailed note on Energy flow in an Ecosystem.
10. Explain about Energy resource and conservation.
11. Write about Natural resources in detail.
12. Discuss in detail about Loss of Bio-diversity.

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ODD SEMESTER [2020-2021]
INTERNAL ASSESSMENT TEST – III

Programme : II B.Sc(IT) (A&B)
Course Code : 17UITA31
Course Title : Digital Principles and Computer Organization

Date: 15.12.2020
Time: 10.00 -12.00
Max Marks: 50

Section A

[Answer ALL the Questions]

9X1=9

1. BCD input 1000 is fed to a seven segment display through a BCD to 7 segment decoder/driver. The segment which will lit up one____
a) a,b,d b) a,b,c c) all d) a,b,g,c,d
2. Which device has one input and many outputs?
a) multiplexer b) demultiplexer c) counter d) flip-flop
3. The Indirect address bit mode is specified using I = _____.
a) 0 b) 2
c) 1 d) 3
4. The mode in which the effective address is equal to the address part of instruction is _____.
a) Indirect b) Direct c) Immediate d) Absolute
5. INR control input is used as a _____.
a) INPUT b) INCREMENT
c) INPUT REGISTER d) INPUT LOAD
6. DR and AC registers are combined to work on _____ Micro operations.
a) ALU b) Control
c) Memory d) Cache
7. A control unit whose binary control variables are stored in memory is called a _____.
a) Micro programmed Control Unit b) Arithmetic Operation Unit
c) Memory unit d) Input control Unit
8. _____ does not need a reference to memory and is recognized by 1111.
a) Memory reference b) Register Reference c) Input output instruction d) control
9. The clock pulses do not change the state of a register unless the register is enabled by a _____.
a) control signal b) Micro control
c) pulser d) register functional

Section B

[Answer ALL the following]

3X7=21

10. a) Illustrate the function of BCD to decimal decoder with neat diagram. [OR]
b) Write short note on.
i) EX-OR gate and its function ii) Encoders
11. a) Describe about computer register for the basic computer [OR]
b) Explain all type of Instruction Codes
12. How Instruction Cycle is defined? [OR]
b) How address sequencing is done?

Section C

2X10=20

[Answer ANY TWO question]

15. Explain in detail about Seven segment Decoder with neat diagram.
16. Discuss and explain control-memory and address sequencing in micro programmed control.
17. Describe about Symbolic MicroInstruction.

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ODD SEMESTER [2020-21]
INTERNAL ASSESSMENT TEST – III

Programme : **II IT (A&B)** Date : 12.12.2020
Course Code : **17UITC31** Time : 10.00 am -12.00
Course Title : **Object Oriented Programming in C++** Max Marks : **50**

Section A

[9 x 1 = 9]

[Answer **ALL** the questions]

1. Which is used to describe the function using placeholder types?
 - a) template parameters
 - b) template type parameters
 - c) template type
 - d) type parameters
2. What can be passed by non-type template parameters during compile time?
 - a) int
 - b) float
 - c) constant expression
 - d) string
3. Templates simulate which of the following feature?
 - a) Polymorphism
 - b) Abstraction
 - c) Encapsulation
 - d) Inheritance
4. Which keyword is used for the template?
 - a) Template
 - b) template
 - c) Temp
 - d) temp
5. Which operator is used to insert the data into file?
 - a) <
 - b) >>
 - c) >
 - d) <<
6. Which header file is used for reading and writing to a file?
 - a) #include<iostream>
 - b) #include<fstream>
 - c) #include<file>
 - d) #include<fe>
7. What is the correct syntax of defining function template/template functions?
 - a) template <class T> void(T a){cout<<a;} b) Template <class T> void(T a){cout<<a;}
 - c) template <T> void(T a){cout<<a;} d) Template <T> void(T a){cout<<a;}
8. How many types of output stream classes are there in c++?
 - a)1
 - b)2
 - c)3
 - d)4
9. What is meant by ofstream in c++?
 - a) Writes to a file
 - b) Reads from a file
 - c) Writes to a file & Reads from a file
 - d) delete a file

Section B

[3 x 7 = 21]

[Answer **ALL** the questions]

- 10.a) Define Manipulators in C++ with examples. [OR]
- b) Describe unformatted I/O operations in C++.
- 11.a) Explain command line arguments? Give an example. [OR]
- b) Explain virtual class with examples.
- 12.a) . Explain Pure Virtual Functions. [OR]
- b) Define a function template giving its syntax.

Section C

[2 x 10 = 20]

[Answer **ANY TWO** question]

13. What are class templates? How are they created?
14. Explain C++Stream Classes.
15. Explain different operations on File in C++



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ODD SEMESTER [2020-21]
INTERNAL ASSESSMENT TEST – III

Programme : **II IT (A&B)**
Course Code : **17UITC32**
Course Title : **Data Structures**

Date : 14.12.2020
Time : 10.00 am -12.00
Max Marks : **50**

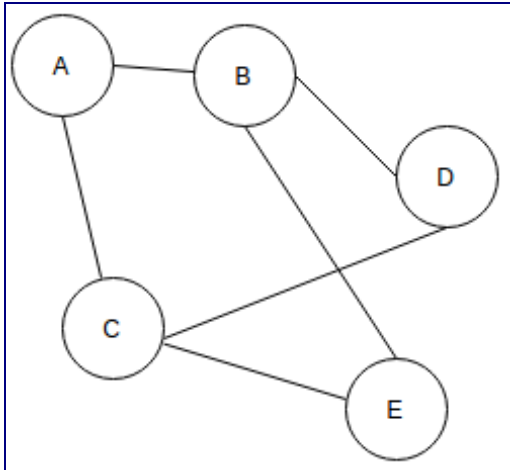
Section A

[9x 1 = 9]

[Answer **ALL** the questions]

1. Merge sort uses which of the following technique to implement sorting?
a) backtracking b) greedy algorithm c) divide and conquer d) dynamic programming
2. Which of the following is not a variant of merge sort?
a) in-place merge sort b) bottom up merge sort
c) top down merge sort d) linear merge sort
3. Which of the following sorting algorithms is the fastest?
a) Merge sort b) Quick sort c) Insertion sort d) Shell sort
4. Which of the following methods is the most effective for picking the pivot element?
a) first element b) last element c) median-of-three partitioning
d) random element
5. Which of the following statements for a simple graph is correct?
a) Every path is a trail b) Every trail is a path
c) Every trail is a path as well as every path is a trail
d) Path and trail have no relation
6. The number of elements in the adjacency matrix of a graph having 7 vertices is _____
a) 7 b) 14 c) 36 d) 49
7. For the given conditions, which of the following is in the correct order of increasing space requirement?
i) Undirected, no weight ii) Directed, no weight
iii) Directed, weighted iv) Undirected, weighted
a) ii iii i iv b) i iii ii iv c) iv iii i ii d) i ii iii iv
8. A graph having an edge from each vertex to every other vertex is called a _____
a) Tightly Connected b) Strongly Connected
c) Weakly Connected d) Loosely Connected

9. For the given graph(G), which of the following statements is true?



- a) G is a complete graph
- b) G is not a connected graph
- c) The vertex connectivity of the graph is 2
- d) The edge connectivity of the graph is 1

Section B

[3 x 7 = 21]

[Answer **ALL** the questions]

10.a. Explain the Quick sort with your own example(or)

b. Explain the Radix sort with your own example

11. a. Discuss the following with reference to graph

i) Directed Graph ii) Undirected Graph iii) Degree of vertex (or)

b. Define spanning tree with example

12.a. Explain Breadth First Search traversal of Graph using an example(or)

b. Explain Depth First Search traversal of Graph using an example

Section C

[2 x 10 = 20]

[Answer **ANY TWO** question]

13. Write a detailed note Merge sort with example

14. What is Graph? Explain matrix and linked list representation of a graph.

15. Formulate an algorithm to find the shortest path using Dijkstra's algorithm and explain with example.

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ODD SEMESTER [2020-2021]

INTERNAL ASSESSMENT TEST – II

Programme : **III IT(A&B)** Date : 10.12.2020
Course Code : **17UITC51** Time : 10.00 am -12.00 pm
Course Title : **Data Communication and Computer Networks**
Max Marks : **50**

Section A

[9 x 1 = 9]

[Answer **ALL** the questions]

1. A TCP Packet is called a _____.
 - a) user datagram
 - b) segment
 - c) datagram
 - d) protocol
2. An IP address is _____ bits.
 - a) 32
 - b) 16
 - c) 8
 - d) 128
3. Which protocol layer uses the protocols are www,HTTP,FTP etc.
 - a) Transport Layer Protocol
 - b) Hardware Layer protocol
 - c) Internet Layer protocol
 - d) Application Layer protocol
4. Which of the following TCP/IP protocol is used for remote terminal connection service?
 - a) TELNET
 - b) ARP
 - c) FTP
 - d) SNMP
5. Transmission of computerized data from one location to another is called _____.
 - a) data flow
 - b) data communication
 - c) data transfer
 - d) data management
6. In _____ routing, the destination address is a network address in the routing tables.
 - a) next-hop
 - b) host-specific
 - c) network-specific
 - d) system-specific
7. TCP is _____.
 - a) Reliable
 - b) Connection-oriented
 - c) application
 - d) connection-less
8. What is the port number of the HTTP?
 - a) 80
 - b) 25
 - c) 53
 - d) 21
9. The Internetworking protocols is known as
 - a) SMTP
 - b) UDP
 - c) TCP/IP
 - d) NNTP

Section B

[3 x 7 = 21]

[Answer **ALL** the questions]

- 10.a) Explain about UDP. [OR]
- b) Explain SNMP?
- 11.a) Write about peer-to-peer model. [OR]
- b) Explain about Electronic Mail.
- 12.a) Describe WWW.[OR]
- b) Write detailed note on File Transfer Protocol.

Section C

[2 x 10 = 20]

[Answer **ANY TWO** question]

13. Discuss the transport service primitives. What do you understand by 3 way hand shake Technique?
14. What is Domain Name System? Discuss the three main divisions of the domain name Space.
15. Explain Client and Server Models.

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ODD SEMESTER [2020-2021]

INTERNAL ASSESSMENT TEST – III

Programme : III B.Sc(IT) (A&B)
Course Code : 17UITC52
Course Title : SOFTWARE ENGINEERING

Date: 11.12.2020
Time: 10.00 -12.00
Max Marks: 50

Section A

[Answer ALL the Questions]

9X1=9

1. Stepwise refinement is also known as _____.
a) Development b) Stepwise Program Development
c) Algorithm d) Procedure
2. Integrated top down development integrates _____.
a) Analysis, Testing and Implementation b) Design, Implementation and Testing
c) Design, Implementation and Maintenance d) Design, analysis and Testing
3. A systematic technique for mapping the structure of a problem into a program structure to solve problem _____.
a) Jackson Structured Programming b) Levels of Abstraction
c) Stepwise Refinement d) Integrated top down development
4. The _____ is held near the end of architectural design and prior to detailed design.
a) DIJ76 b) PDR
c) HIPO d) CDR
5. "Are we building the product right?".
a) Formal b) Verification
c) Informal d) Validation
6. _____ is used to investigate the structural properties of source code.
a) Symbolic Execution b) Static analysis
c) Execution histories d) Assertion Driven
7. A _____ tests are concerned with exercising the internal logic of a program and traversing particular execution paths.
a) Fuctional b) Performance
c) Stress d) Structural
8. _____ is the process of isolating and correcting the cause of known as errors.
a) Execution b) Debugging
c) Evaluation d) Tracing
9. A _____ is a machine level representation of the partial or total program state at a particular point in the execution sequence.
a) Diagnostic output b) Snapshot dumps
c) Decision d) Selective Trace

Section B

[Answer ALL the following]

3X7=21

- 10.a) Illustrate about Integrated top down development design technique. [OR]
b) Explain about Stepwise refinement of design technique.
- 11.a) Discuss about various types of test plans. [OR]
b) Detailed discuss about walkthroughs and inspections.
- 12.a) Discuss about static analysis. [OR]
b) List out explain the steps of debugging.

Section C

[Answer ANY TWO question]

2X10=20

13. Discuss in details about Jackson structured programming design technique.
14. Explain about quality assurance
15. Explain about two kinds of system testing.

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ODD SEMESTER [2020-2021]
INTERNAL ASSESSMENT TEST – III

Programme : III B.Sc(IT) (A&B)
Course Code : 17UITC53
Course Title : JAVA PROGRAMMING

Date: 12.12.2020
Time: 10.00 -12.00
Max Marks: 50

Section A

[Answer ALL the Questions]

9X1=9

1. The java _____ specification defines an application programming interface between the web server and the application program.
a) program b) Servlet c) Randomise d) Server
2. What is the difference between servlets and applets?
 - i. Servlets execute on Server; Applets execute on browser
 - ii. Servlets have no GUI; Applet has GUI
 - iii. Servlets creates static web pages; Applets creates dynamic web pages
 - iv. Servlets can handle only a single request; Applet can handle multiple requests

a) i, ii, iii are correct b) i, ii are correct c) i, iii are correct d) i, ii, iii, iv are correct.
3. Which of the following is the correct order of filter life cycle phase methods?
a) init(), service(), destroy() b) initialize(), service(), destroy()
c) init(), doFilter(), destroy() d) init(), service(), delete()
4. The doGet() method in the example extracts values of the parameter's type and number by using _____
a) response.getAttribute() b) response.getParameter() c) request.getParameter()
d) request.setParameter()
5. How many JDBC driver types does sun define?
a) one b) Two c) Four d) Three
6. Which class provides stream to read binary data such as image etc. from the request object?
a. ServletInputStream b. ServletOutputStream c. Both A & B d. None of the above
7. What type of servlets use these methods doGet(), doPost(), doHead, doDelete(), doTrace()?
a. Generic Servlets b. HttpServlets c. All of the above d. None of the above
8. Which cookie it is valid for single session only and it is removed each time when the user closes the browser?
a. Persistent cookie b. Non-persistent cookie c. All the above d. None
9. Which packages represent interfaces and classes for servlet API?
a. javax.servlet b. javax.servlet.http c. Both A & B d. None

Section B

[Answer ALL the following]

3X7=21

10. a)) Explain in detail the Generic Servlet class..[OR]
b) Explain several methods in URL Connection.
11. a) Explain the different Database drivers.[OR]
b) What are the basic steps to be followed to access database using JDBC.
12. a) Describe the functions of the File Class. [OR]
b) Write a program that will count the number of characters in a file.

Section C

2X10=20

[Answer ANY TWO question]

13. Write short notes on:
a) ServletRequest b) ServletResponse
14. Differentiate between cookies and sessions. How is session status maintained?
15. Explain in details about Character Stream Classes.

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ODD SEMESTER [2020-21]
INTERNAL ASSESSMENT TEST – III

Programme : **III IT (A&B)** Date : 14.12.2020
Course Code : **17UITE52** Time : 10.00 am -12.00
Course Title : **Cryptography and Network security** Max Marks : **50**

Section A

[9x 1 = 9]

[Answer **ALL** the questions]

1. IPSec is designed to provide security at the
a. Transport Layer b. Network layer c. Application Layer d. Data link layer
2. Which component is included in IP security
a. Authentication header b. Encapsulating security payload
c. Internet key exchange d. All of the above
3. What are the different ways to intrude?
a. Buffer overflow b. unexpected combinations and unhandled input
c. Race condition d. All mentioned above
4. _____ infects the master boot record and it is challenging and a complex task to remove this virus.
a. Boot sector virus b. Polymorphic
c. Multipartrite d. Torjons
5. A computer _____ is a malicious code which self-replicates by copying itself to other programs.
a. Program b. Virus
c. Application d. Worm
6. Which of the following is not a type of virus?
a. Boot sector b. Polymorphic c. multipartrite d. Torjons
7. A proxy firewall filters at _____
a. Data link layer b. Network layer c. Session Layer d. Application Layer
8. A firewall is installed at the point where the secure internal network and untrusted external network meet which is also known as _____
a. chock point b. meeting point c. firewall point d. secure point
9. Network layer firewall works as a _____
a. Frame filter b. packet filter c. content filter d. virus filter

Section B

[3 x 7 = 21]

Answer **ALL** the questions]

- 10.a. Describe Authentication Header in detail(or)
- b. How Secure Electronic Transaction works.
- 11.a. Write about Password Management.(or)
- b. Explain about Virus and Related Threats.
- 12.a. Describe the Distributed Denial of Service.(or)
- b. Explain The Firewall Design Principles.

Section C

[2 x 10 = 20]

[Answer **ANY TWO** question]

13. Writ a note on IP Security Architecture
14. Describe the functionality of Intrusion Detection
15. Write a detailed note on Trusted System.

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ODD SEMESTER [2020-2021]
INTERNAL ASSESSMENT TEST – I

Programme : II B.Sc(IT) (A&B)
Course Code : 17UITA31
Course Title : Digital Principles and Computer Organization

Date: 24.10.20
Time:10 -11am
Max Marks: 30

Section A

[Answer ALL the Questions]

6X1=6

1. The decimal value of $(1456)_8$
a) 814 b) 804 c)824 d) 841
- 2.Excess 3 code is known as _____
a)weighted code b)CRC code c) self complementing code d)algebraic code
- 3.What is the output state of an AND gate if the inputs are 0 or 1?
a) 0 b) 1 c) 3 d) 2
- 4.The demorgan's theorem $(a+b)'=$
a) $a'+b'$ b) $a'b'$ c) $a+b$ d) $a.b$
5. $a+1=?$.
a)1 b) 0 c) a d) a or 1
- 6.A karnaugh map with 4 variable has _____
a)2 cells b)4 cells c)8 cells d)16 cells

Section B

[Answer ALL the following]

2X7=14

7. Convert the binary 110.001 to a decimal number. [OR]
What are basic gates? Construct the truth tables and diagrams
- 8.State and prove Demorgan's Theorems of Boolean algebra. [OR]
What to you mean by SOP and POS? Explain with example.

Section C

[Answer ANY one of the following]

1X10=10

- 9.Convert the following hexadecimal number to binary number
a) E5 b)B4D c)CAF4
10. Simplify the Boolean function using K map
 $F(A,B,C,D)=\sum(0,1,2,4,5,6,,9,12,13,14)$.

Reg. No:



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ODD SEMESTER [2020-21]
INTERNAL ASSESSMENT TEST – I

Programme : **II IT**
Course Code : **17UITC32**
Course Title : **DATA STRUCTURES**

Date : 23.10.2020
Time : 10-11am
Max Marks : **30**

Section A

[6 x 1 = 6]

[The Answer **ALL** questions]

1. A _____ is a physical representation of an ADT.
a) Queue b) Datastructure c) Root d) Stack
2. An _____ is a well described procedure for solving a problem.
a) Algorithm b) data c) push d) pop
3. A common examples of static allocation is _____.
a) graph b) trees c) linked list d) Array
4. A stack is _____ data structure.
a) linear b) nonlinear c) array d) Linked list.
- 5 Queues are accessed in _____ order.
a) FILL b) FILO c) FIFO d) LIFO
6. _____ allows insertion and deletion at both ends..
a) STACK b) QUEUE c) DOUBLY LIST d) DEQUEUE

Section B

[2 x 7 = 14]

[Answer **ALL** the questions]

- 7.a)) Explain briefly about Data structure ? [OR]
b) Describe Problem solving strategies?
- 8.a) Explain about Any 3 Application of stack ? [OR]
b) Describes about circular queues?

Section C

[1 x 10 = 10]

[Answer **ANY ONE** question]

9. Explain singly Linked list with examples?
10. Explain briefly about operations on stack?

Reg. No:

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EVEN SEMESTER [2020-2021]
INTERNAL ASSESSMENT TEST – I

Programme : **III IT(A&B)**

Date : **21.10.2020**

Course Code : **17UITC51**

Time : **10.00 am -11.00 am**

Course Title : **Data Communication and
Computer Networks**

Max Marks : **30**

Section A

[6 x 1 = 6]

[Answer **ALL** the questions]

2. A Computer Network permits Sharing of _____.
 - a) Resources
 - b) Information
 - c)Both A&B
 - d) Network
2. Which of the following represents the fastest data transmission speed?
 - a) Gbps
 - b) kbps
 - c) mbps
 - d) Bandwidth
3. _____ is the technology that connects the machines and people within a site in a small area.
 - a) MAN
 - b) LAN
 - c) PAN
 - d) WAN
4. ATM networks are
 - a)connectionless
 - b) Interconnected
 - c) Connection Oriented
 - d) Internet
5. Check sum is used for
 - a) Internet
 - b) Error Correction
 - c) Error Free
 - d) Error Detection
6. ISDN stands for
 - a) Integrated Service Digital Network
 - b) Interaction System Digital Network
 - c) Inexpensive System Digital Network
 - d) Interaction Service Digital Network

Section B

[2 x 7 = 14]

[Answer **ALL** the questions]

- 7.a) Describe the Data Transmission modes. [OR]
- b) Discuss about the various types of Transmission media.
- 8.a) What are the different types of networks? Explain in detail. [OR]
- b) Explain High Level Data Link Control (HDLC).

Section C

[1 x 10 = 10]

[Answer **ANY ONE** question]

9. Explain the OSI reference model with neat diagram
10. What is an error? Explain the types of errors?

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ODD SEMESTER [2020-2021]
INTERNAL ASSESSMENT TEST – I

Programme : III B.Sc(IT) (A&B)
Course Code : 17UITC52
Course Title : SOFTWARE ENGINEERING

Date: 22-10-20
Time: 10.00 -11.00
Max Marks: 30

Section A

[Answer ALL the Questions]

6X1=6

3. The ability of a program to perform a required function under stated conditions for a stated period of time.
 - a) Scalability
 - b) Reliability
 - c) Clarity
 - d) Correctness
4. A _____ process goal is system should be delivered within 12 months.
 - a) Qualitative
 - b) Product
 - c) Clearness
 - d) Quantitative
3. _____ is another name of phased life cycle model.
 - a) Flow Model
 - b) Waterfall Chart
 - c) Hierarchical Chart
 - d) Cost Model
4. The _____ cost estimation first estimates the cost to develop each module subsystem.
 - a) Top Down
 - b) Bottom Up
 - c) Left to Right
 - d) Right to Left
5. COCOMO Stands for _____.
 - a) Constructive Cost Model
 - b) Constructive Continue Model
 - c) Cost Constructive Model
 - d) Continue Constructive Model
6. Expansion of DSI
 - a) Distributed Source Identified
 - b) Data Standard Information
 - c) Delivered Source Instruction
 - d) Design Some Information

Section B

[Answer ALL the following]

2X7=14

- 7.a) Describes detailed about phased life cycle model. [OR]
 - b) Discuss various project size categories.
- 8.a) List out steps of Delphi cost estimation technique. [OR]
 - b) Explain estimating software maintenance costs.

Section C

1X10=10

[Answer ANY ONE question]

9. Discuss any five quality and productivity factors?
10. Explain various software cost factors?

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ODD SEMESTER [2020-2021]
INTERNAL ASSESSMENT TEST – I

Programme : III B.Sc(IT) (A&B)
Course Code : 17UITC53
Course Title : JAVA PROGRAMMING

Date: 22-10-20
Time: 2 -3pm
Max Marks: 30

Section A
[Answer ALL the Questions]

6X1=6

1. JAVA was developed by the company.
a)Sun Microsystems b) Microsoft c)Borland d)IBM
- 2.The _____ connects classes and objects.
a)dot b)super c)new d)variable
- 3.Exception that is identified during compile time is called_____ exception.
a)user defined b)defined c)checked d)unchecked
- 4 Wrapper class is a wrapper around a _____ data type.
a)normal b)central c)primitive d)concrete
- 5.To create a subclass, the keyword_____ is used.
a)import b)new c)implements d)extends
- 6.package is a collection of _____ .
a)clsses b)variable c)functions d)concept.

Section B
[Answer ALL the following]

2X7=14

7. What is an object and class? Explain with an example. [OR]
Write note on method overriding in java.
8. How do design a package?. [OR]
Write a java program to illustrate multiple inheritance

Section C
[Answer ANY one of the following]

1X10=10

- 9.Explain indetail about String Handling Function.
10. What are user defined exception in java? Explain with example.

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ODD SEMESTER [2020-2021]
INTERNAL ASSESSMENT TEST – I

Programme : III B.Sc(IT) (A&B)

Date: 23-10-20

Course Code : 17UITE52

Time: 10.00 -11.00

Course Title : CRYPTOGRAPHY AND NETWORK SECURITY

Max Marks: 30

Section A

[Answer ALL the Questions]

6X1=6

1. _____ is an action that compromises the security of information owned by an organization.
a) Security Attack b) Security Mechanism
c) Security Service d) Security Analysis
2. Which is the example of Passive Attack?
a) Masquerade b) Replay
c) Denial of Service d) Traffic Analysis
3. Restoring the Plain Text from the Ciphertext is _____.
a) Enciphering b) Deciphering
c) Encryption d) cryptography
4. The key length in IBM's original LUCIFER algorithm was _____ bits
a) 128 b) 64 c) 196 d) 56
5. The _____ is designed to be resistant to known cryptanalytic attacks.
a) s-box b) shift row c) mix columns d) Feistel structure
6. _____ refers to the ability to change keys quickly and with a minimum of resources.
a) Key Agility b) Encryption c) Decryption d) Cipher

Section B

[Answer ALL the following]

2X7=14

7. a) Explain in details about Security Attack. [Or]
b) Explain any two Substitution techniques with example.
8. a) Discuss about triple DES with two and three keys [OR]
b) Explain about scenario for key distribution.

Section C

[Answer ANY ONE question]

1X10=10

9. Explain in detail about DES algorithm.
10. Explain about modes of operation on block cipher



G.T.N. ARTS COLLEGE (Autonomous), Dindigul
Odd Semester (2020 – 2021)
OBE Regulation – 2020
Continuous Internal Assessment Test – I

Programme : BSc

Semester: I

Class : I

Date: 20.11.20

Course Title : Introduction to Programming

Time: 10 TO 12

Course Code: 20UITC11

Max. Marks: 45

Course Outcomes (COs):

CO1	Explain the Linux files systems, Linux Commands and process status.
CO2	Classify various Control structures and Operators.
CO3	Explain Functions and Arrays.
CO4	Experiment Structures and Union.
CO5	Make use of Pointers and Files in various programs.

Qn. No.	Section – A Answer ALL the Questions (6 x 1 = 6)	CO(s)	K – Level
1	Which command is used to print a file a. print b. tr c. lpr d. none	CO1	K1
2	which command is used to extract a intermediate result in a pipeline a. tee b. extract c. exec d. none	CO1	K1
3	The format identifier ‘ %i ‘ is also used for _____ data type a. char b. int c. float d. double	CO2	K1
4	Which of the following is not an arithmetic operation a. a*=10 b. a/=10 c. a!=10 d. a%10	CO2	K1
5	Which is the following is a correct format for declaration of function a. return-type function-name(argument type); b. return-type function-name(argument type){} c. return-type (argument type)function-name; d. all	CO2	K1
6	The value obtain in the function is given bck to main by using _____ keyword a. return b.static c.new d.volatile	CO3	K1

Qn. No.		Section – B Answer ALL the Questions (5 x 3 = 15)	CO(s)	K – Level
7	A	Define Linux File System	CO1	K1
	OR			
	B	Discuss about the types of users, files and permission.	CO1	K2
8	A	List any 10 Linux basic commands and its purpose	CO1	K1
	OR			
	B	Describe the structure of password file.	CO1	K2
9	A	Write a program and describe the basic elements of C	CO2	K1
	OR			
	B	Discuss in detail about Arithmetic operators in C with example program.	CO2	K2
10	A	Describe for loop.	CO2	K2
	OR			
	B	Explain enum with suitable Example.	CO2	K1
11	A	Write a note on types of functions in C	CO3	K1
	OR			
	B	Write a c program to accept two numbers compute its sum and print the result.	CO3	K2

Qn. No.		Section – C Answer ALL the Questions (3 x 8 = 24)	CO(s)	K – Level
12	A	Define pipeline and filters	CO1	K1
	OR			
	B	Describe the process status of Linux operating system.	CO1	K2
13	A	Explain in detail about control statements in C	CO2	K2
	OR			
	B	Discuss in detail about any 4 string function with suitable example for each	CO2	K2
14	A	Write a C program and show the scope of variable in detail.	CO3	K2
	OR			
	B	Differentiate call by value and call by reference	CO3	K2



G.T.N. ARTS COLLEGE (Autonomous), Dindigul
Odd Semester (2020 – 2021)
OBE Regulation – 2020
Continuous Internal Assessment Test – I

Programme : BBA
 Class : I
 Course Title: Fundamental of Information Technology
 Course Code: 20UITN11
 Course Outcomes (COs):

Semester: I
 Date: 23.11.20
 Time: 10 TO 12
 Max. Marks: 45

CO1	Relate the basics of computer system and its architecture.
CO2	Describe the Central Processing Unit and Memory.
CO3	Classify the various Input and Output Devices
CO4	Explain about Computer software and its type.
CO5	Make use of Internet and Build the Web documents.

Qn. No.	Section – A Answer ALL the Questions (6 x 1 = 6)	CO(s)	K – Level
1	The second generation computers used a) Vacuum tubes b) Transistors c) Microprocessors d) ICs	CO1	K1
2	The first personal computer was introduced by a) IBM b) COMMODORE c) Apple d) motoro	CO1	K1
3	The first personal computer was introduced by a) IBM b) COMMODORE c) Apple d) motoro	CO2	K1
4	_____ refers to set of electronic instruction that tell the hardware what to do . a) Hardware b) Software c) Data d) Users	CO2	K1
5	_____ are the internal storage areas in computer. a) memory b) ALU c) control unit d) hardware.	CO2	K1
6	Supermarkets use a bar code system called the_____ a) UPC b) OCR c) CCD d) POS	CO3	K1
Qn. No.	Section – B Answer ALL the Questions (5 x 3 = 15)	CO(s)	K – Level
7	A What are the Characteristics of a computer?	CO1	K1

	OR		
	B	Write note on super Computer.	CO1 K2
8	A	How are computer system classified?	CO1 K1
	OR		
	B	What are Personal Computers and its features.	CO1 K1
9	A	Explain the components of a computer system with examples.	CO2 K2
	OR		
	B	Write a short notes on Registers.	CO2 K2
10	A	What are the reasons for using ROM?	CO2 K2
	OR		
	B	What is memory cycle time?	CO2 K1
11	A	What are the difference kinds of input devices?	CO3 K1
	OR		
	B	How does a digitizer work?	CO3 K2

Qn. No.	Section – C Answer ALL the Questions (3 x 8 = 24)		CO(s)	K – Level
12	A	Explain in detail about generation of computers.	CO1	K2
	OR			
	B	Define uses of computer with example.	CO1	K1
13	A	Explain about RAM and its type.	CO2	K2
	OR			
	B	What are Instruction and Execution cycles? Explain.	CO2	K2
14	A	Describe the OMR process of data entry	CO3	K2
	OR			
	B	Explain the working of a digital camera.	CO3	K2



G.T.N. ARTS COLLEGE (Autonomous), Dindigul
Odd Semester (2020 – 2021)
OBE Regulation – 2020
Continuous Internal Assessment Test – I

Programme: B.Sc. Information Technology

Semester: I

Class: I B.Sc. IT (A & B)

Date: 24.11.2020

Course Title: Value Education

Time: 2 Hrs

Course Code: 20UVEV11

Max. Marks: 45

Course Outcomes (COs):

CO1	Trace their personality and social values based on the principles of human values
CO2	Relate a sense of Love, Peace and Brotherhood at the local, national and international level
CO3	Identify the social realities and inculcate essential value system towards building a healthy society
CO4	Employ the knowledge of professional values in life
CO5	Associate the role in social institutions, family and constitutional values

Qn. No.	Section – A Answer ALL the Questions (6 x 1 = 6)	CO(s)	K – Level
1	Most important human value is _____ a) Truth b) jealous c) hate d) violence	CO1	K1
2	Values are classified into _____ heads a) 4 b) 5 c) 6d) 7	CO1	K2
3	_____ is one of the values of Hinduism a) Toleranceb) dishonestc) hated) violence	CO2	K1
4	_____ is the world's second largest religion a) Christianity b) Hinduism c) Islam d) Buddhism	CO2	K2
5	_____ is the most popular form of government in modern world a) faith b) belief c) democracy d) moral	CO3	K1
6	_____ is one of the characteristics of socialism a) inequality b) injustice c) competition d) social welfare	CO3	K2

Qn. No.		Section – B Answer ALL the Questions (5 x 3 = 15)	CO(s)	K – Level
7	A	What is Value?	CO1	K1
	OR			
	B	Discuss in detail about the significance of value education.	CO1	K1
8	A	What is the need for Values Education?	CO1	K1
	OR			
	B	List out the characteristics of Individual Values.	CO1	K1
9	A	Illustrate about Karma Yoga in Hinduism	CO2	K2
	OR			
	B	Explain Selfless service in Sikhism.	CO2	K2
10	A	Describe ahimsa in Jainism.	CO2	K2
	OR			
	B	Explain the values of islam.	CO2	K2
11	A	Define Society	CO3	K3
	OR			
	B	Write short notes on Socialism	CO3	K3

Qn. No.		Section – C Answer ALL the Questions (3 x 8 = 24)	CO(s)	K – Level
12	A	Describe the classification of values	CO1	K1
	OR			
	B	Explain the values of individual in detail	CO1	K1
13	A	Explain love and justice in Christianity	CO2	K2
	OR			
	B	Discuss the need for religious harmony	CO2	K2
14	A	Briefly explain Democracy	CO3	K3
	OR			
	B	Elucidate Secularism.	CO3	K3