

14. ICT EDUCATION (COMPUTER EDUCATION)

(a) Computer Fundamentals & Programming (ICT.Ed.311)

Exam 2068

Computer Fundamentals & Programming (ICT.Ed.311) Interdisciplinary

Group 'A'

10

Attempt ALL the questions. Tick (✓) the best answers.

- Which of the following technology is used in first generation computers?
a) Transistors
b) IC
c) Vacuum tube
d) Magnetic tape
- Which of the following is an electrically alterable read-only memory?
a) ROM
b) EAROM
c) EPROM
d) ROM
- Program that copies itself over network connection, moving from one computer to another computer is usually called
a) Worm
b) Virus
c) Trojan horse
d) Trap door
- Which of the following is not a transmission medium?
a) Modem
b) Coaxial cable
c) Telephone line
d) Optical fiber
- The numerical 0, 1 in the data is known as
a) Bit
b) Data
c) Half byte
d) Nibble
- ASCII stands for
a) American static code for Information Interchange
b) American Standard Code for Information Interchange
c) American Standard Code for Interchange Information
d) American Standard Code for Information Innerchange
- The correct HTML for inserting an image is
a) ``
b) ``
c) ``
d) `<IMAGE SRC = "IMAGE.GIF">`
- What does MOD mean?
a) Modulus division
b) Modular division
c) Modulation
d) All of the above
- What will this code produce?
`Firstword$="book"`
`Secondword$="keeper"`
`PRINT firstword$+secondword$`
a) "bookkeeper"
b) error message
c) `firstword$+secondword$`
d) compile error
- If the English language follows formats and rules on grammar, what does QBASIC follows as counterpart?
a) Strings
b) Syntax
c) Semantic
d) Coding

Attempt ALL the questions.

Group 'B'

4x7=28

- What are the characteristics of computer? Differentiate between digital and analog computer.
OR
What are the differentiate between primary and secondary memory?
- Describe the `<A>` and `` in HTML.
- What is database management system (DBMS)?
- What is variable? How do you declare the variable in QBASIC?
OR
What is looping concept? Explain with example.

5. Draw a block diagram of computer system. Describe the components of computer system.

OR

Write a program to check if the given number is prime or not using QBASIC programming language.

Exam 2069

Group "A"

10

Attempt all the questions. Tick (✓) the best answers.

- Which of the following devices measure storage capacity in megabytes or gigabytes?
 - Hard drive
 - NIC card
 - CPU
 - Modem
- Which of the following connectors is used for hard drives?
 - Parallel
 - SATA
 - HDMI
 - TTFN
- What kind of computer memory is both static and nonvolatile?
 - RAM
 - ROM
 - Cache
 - Virtual
- The way of manipulating data into information is called
 - storing
 - processing
 - deletion
 - organizing
- MS Access belongs to
 - Relational Data Base Management system
 - Data Base Management System
 - Data Base Management Software
 - Data Base Manipulating System
- Windows is an example of a (n)
 - Programming language
 - operating system
 - local area network card.
 - printer driver
- Which of the following performs modulation and demodulation?
 - Satellite
 - Optical fiber
 - Switch
 - Modem
- How to insert an image?
 - `<img=...>`
 - ``
 - ``
 - ``
- Which one of the following postfix symbols represents a string variable in Basic?
 - %
 - !
 - #
 - \$
- What is the output of following code?


```
LET x=0
DO WHILE x<=5
LET x+1
LOOP
PRINT x
```

 - 0
 - 1
 - 5
 - 6

Attempt all the questions.

Group "A"

4×7=28

- What is a secondary memory? Describe the Hard Disk.
OR
What are the different types of printer? Describe Laser Printer.
- Explain <Table> tag with 5 attributes and value in HTML.
- What do you mean by Relational Database Management System?
OR
What is Internet? Describe the use of Internet.
- What are the different between function and sub in QBASIC?
OR
What is a flow chart? Draw a flow chart to print 1 to 10

Group "C"

12

- What is the Computer Architecture? Describe with block diagram.

OR

Write a program to open data file cited. Data that contain the name address phone number of 5 students and display all the records.

Exam 2071

Group "A"

10

Attempt ALL the questions. Tick (✓) the best answers.

- Which of the following is used as a primary storage device?
a. magnetic tape
b. PROM
c. Floppy disk
d. all of the above
- A megabyte is
a. 1,024 bytes
b. 1,000 bytes
c. 1 million bytes
d. 1 trillion bytes
- Which of these is not an example of an input device?
a. keyboard
b. mouse
c. hard drive
d. scanner
- Which of the following device can be used to directly input printed text?
a. OCR
b. Mouse
c. MIC
d. Joystick
- Which device that amplifies a signal transmitted over the network?
a. Bridge
b. Repeater
c. Modem
d. Multiplexer
- The process of digital signal to Analog signal is called
a. Modulation
b. Frequency
c. Modem
d. Demodulation
- Cell Address \$B\$6 in an excel formula means
a. Relative Cell Reference
b. Absolute Cell Reference
c. Mixed Cell Reference
d. Calling Cell Reference
- Which of the following tag does not require a terminator?
a. <H|>
b.

c.
d. <U>
- Which statement is to Print the 24th item of the array B?
a. PRINT B*24.
b. PRINTB(24)
c. PRINT 'B(24)'
d. PRINT B
- What is the output of following code?
LETC = 0
DO WHILE C <= 5
LET C = C + 1
LOOP
PRINT C
a. 0
b. 1
c. 5
d. 6

Attempt ALL the questions.

Group "B"

4*7=28

- What is Flash Memory? Describe with example.
- Explain and tag in HTML with example.
- What is Internet? How does search engine work to search the information?
OR
What is computer network? Explain about Star topology.
- Write a function procedure using FUNCTION-END FUNCTION statement to display the prime number from 2 to 20.
OR
What is flow chart? Draw a flow chart and program to check given , number is odd or even.

Group "C"

12

- What are the different types of output device? Describe the functional structure of CRT and LCD monitor.

OR

What is file handling in QBASIC? Write a program to read the information from data file "EMP.DAT" which consists many records with the many fields name (NAME, POST, DOB and Salary). Write a program to display the records having salary greater or equal to 32000 or having POST "MANAGER".

(c) Basic Hardware, Software & C programming (ICT.Ed.312)

Exam 2068

Group 'A'

[10]

Attempt ALL the questions. Tick the best answers.

- What is the $(1001)_2 = (?)_{10}$
 - 5
 - 11
 - 9
 - 14
- $(XY)' = X' + Y'$ is called Law.
 - communicative
 - associative
 - distributive
 - D & Morgan
- It is part of ALU that does for arithmetic/logic operations and the result is always stored in the
 - Accumulator
 - Program counter
 - Stack of pointer
 - Register
- Which bus is used to transfer the binary information flows both way between the microprocessor and memory or I/O.
 - Data bus
 - Address bus
 - Control bus
 - Common bus
- Which is not the 8085 instruction set of group?
 - Data transfer
 - Arithmetic
 - Transfer
 - Branch and machine control
- is the situation in which a process of waiting on another process, which is also waiting in another process..... which is waiting on the first process. None of the processes involved in this circular wait are making progress.
 - deadlock
 - starvation
 - dormant
 - queue
- int x; * assume x is 16 bits in size *. What is the maximum number that can be printed using printf("%d\n,x), assuming that x is initialized as shown above?
 - 127
 - 225
 - 32,767
 - 65,536
- When you are creating a structure, you need to use which of the following keyword
 - structure
 - struct
 - object
 - record
- Which of the following is an operator in 'C'?
 - &&
 - \$
 - @
 - #
- What will output:-void main() {float a=0.7; if(a<0.7){printf("C");} else {printf("C++");}}
 - C
 - C++
 - 0.7
 - error

Basic Hardware, Software & C Programming (ICT.Ed.312)

Time: 1:30 hrs

Elective Group 'B'

Attempt ALL the questions

Group 'B'

4x7=28

- What is Logic gate? Draw truth table for AND, OR and NAND gate.
- What are the functions of control unit? Draw a block diagram of internal architecture of CPU.

OR

Describe the functional description of register.
- What are the differences between logical and physical address? Describe the paging for memory management.
- What is operator? Explain the importance of operator precedence with a programming example.

OR

Explain with suitable example:

 - Call by value
 - Call by reference

2. Write a flow chart and program to read seven days temperature in an array and print deviation for average temperature for each day.

OR

Write a program to read N numbers of people's age in an array and print minimum, maximum and average age.

Exam 2069

Group "A"

10

Attempt all the questions. Tick (✓) the best answers.

- (XY)'=X'+y' is called—law
 - communicative
 - associative
 - distributive
 - DeMorgan
- What is the (III)₂=(?)₁₀?
 - 5
 - 9
 - 15
 - 14
- What does the microprocessor speed depend on?
 - clock speed
 - data bus width
 - address bus width
 - number of pins
- Which is NOT flag in Microprocessor?
 - Zero (Z)
 - Carry (CY)
 - Cache (Ca)
 - Parity (P)
- RISC stands for
 - Reduced instruction Set Computer
 - Resized Instruction Set Computer
 - Reduced Index Set Computer
 - Resized Index Set Computer
- Which of the following is not a condition necessary for, deadlock?
 - Circular wait
 - Starvation
 - Hold and wait
 - Mutual exclusion
- What is the meaning of #?
 - post procedure
 - pre-processor
 - procedure
 - pre-increment
- What types of operators are &&,||,!?
 - conditional operator
 - ternary operator
 - bitwise operator
 - logical operator
- What is the meaning of scanf ()?
 - formatted input statement
 - unformatted input statement
 - formatted output statement
 - unformatted output
- What is the output of the following statement?
`void main () {int i=65; printf("%i,%c", i,i);}`
 - error message
 - 65 65
 - a 65
 - a

Attempt all the questions.

Group "B"

4×7=28

- What is Boolean Algebra? Explain DeMorgan's laws.
- What is Address Bus? Draw a block diagram for Bus System of Micro Processor.

OR

What is assembly language? Explain about Mnemonics.

- Define First Come Serve (FCFS) scheduling algorithms with average waiting time.
- What are the differences between do loop and while loop? Explain with an example.

OR

What are the different types of operators in C? Explain the logical operator with an example.

Group "C"

1×12=12

- Write a flow chart and a program to find out the largest number among three given numbers.

OR

Write a program to read N number of person's age using array and print maximum age.

Attempt ALL the questions. Tick (✓) the best answers.

- Which of the following is/are the universal gate?
a. AND, OR
b. NAND, NOR
c. XOR, XNOR
d. NOT
- The bit pattern 1010 in 1's complement notation is
a. 1111
b. 0101
c. 1101
d. 0111
- It is a part of ALU that used for arithmetic / logic operations and the result is always stored in the
a. accumulator
b. program counter
c. stack pointer
d. register
- Which bus is used to transfer the binary information flows both ways between the microprocessor and memory or I/O?
a. data bus
b. address bus
c. control bus
d. common bus
- Which is not the 8085 instruction set of group?
a. data transfer
b. arithmetic
c. transfer
d. branch and machine control
- FIFO scheduling is _____
a. Preemptive Scheduling
b. Non Preemptive Scheduling
c. Deadline Scheduling
d. Fair Share Scheduling
- Which of the following is the correct output of the following?
void main()
{int i=5; i=i-- + ++ + i++;
printf("%d", i);
a. 18
b. 20
c. 24
d. 15
- C name was suggested by
a. Rrick Mascitti
b. Bjarne Stroustrup
c. Donald Knuth
d. Dennis Ritchie
- Which of the following is NOT an operator in 'C'?
a. &&
b. >>
c. +=
d. #
- Which of the following they word is used when there is not any return type?
a. long
b. double
c. void
d. int

Attempt ALL the questions.

Group "B"

4×7=28

- Draw truth table, logical diagram and algebraic expression for AND, OR and NAND gate.
 - Define Microprocessor. Draw a block diagram of internal architecture of 8085 Microprocessor.
- OR
- Define the Register with functional description.
 - What are the functions of Operating System? Explain.
 - What is data type in C Programming Language?

What is array? Explain with suitable example.

Group "C"

1×12=12

- Write a flow chart and program to read five subject marks using array and find out average marks.
- OR
- Write a program to print Fibonacci series using while loop (1, 1, 2, 3, 5.....n).

(c) Graphics, Numerical Methods, and Software Project Management (ICT.Ed.331)

Exam 2069

Group "A"

14

Attempt all the questions. Tick (✓) the best answers

1. model is source of conventional software process
a. Prototype
b. Iterative
c. Waterfall
d. Spiral
2. To reduce the size of the line of the code of software we should use
a. higher order languages
b. object oriented analysis and design
c. commercial components
d. all of the above
3. Which is not the phase of the software life cycle process?
a. development
b. elaboration
c. construction
d. transition
4. Which activity does not lie under the engineering set of the software process?
a. requirement
b. design
c. implementation
d. development plan
5. The project environment evolves through prototype, and maintenance
a. Planning
b. development
c. testing
d. implementation
6. Which is not a basic geometrical transformation?
a. drawing
b. translation
c. scaling
d. rotation
7. Which one is a polygon rendering method?
a. Scaling
b. Ambient
c. Octree
d. Phong
8. Which one is the hidden surface removal method from following?
a. diffuse
b. constant intensity
c. depth-buffer
d. fast-Phong
9. The input device is a ball that can be rotated with the fingers or palm of the hand.
a. Digitizer
b. Joysticks
c. Trackball
d. Mouse
10. Graphics object are presented as a collection of discrete picture element called ...
a. Bit
b. Pixel
c. Line
d. Stroke
11. Which one is the numerical error of the following?
a. truncation error
b. missing information
c. data error
d. wrong assumption
12. Which one is not an open ended method or extrapolation method of solving non-linear equation?
a. Newton Raphson
b. Secant
c. Fixed method
d. bisection
13. If $y = x^3 + 1$ then $\frac{dy}{dx} = ? \cdot Dx$
a. $3x^4$
b. x^2
c. $3x^2$
d. $3x + 1$
14. Which one is the linear equation from the following?
a. $2\cos x - x = 0$
b. $y = 7x + 15$
c. $x^3 - 4x^2 + 4x + 4 = 0$
d. both a and b

Attempt all questions.

Group "B"

6×7=42

1. Write an algorithm of Bisection method to calculate the root of non-linear equation

OR

Use Simpson's 3/8 rule to compute the integral

2. Estimate the value of $\sin Q$ at $Q = 25^\circ$ using the Newton backward difference formula with the help of following data:

Q	10	20	30	40	50
SinQ	0.1736	0.3420	0.5000	0.6428	0.7660

3. Write the different graphics input devices. Explain any two of them.
 4. Explain Raster scan principle.

OR

Explain the basic two-dimensional geometric transformations.

5. What are the necessary improvements required to waterfall model to work? Explain briefly.

Group "C"

2×12=24

7. Write the Bresenham's line drawing algorithm for $|m| < 1$.

OR

Explain the types of visible surface detection methods.

8. Explain the software process life-cycle phases with their objectives.

Exam 2071

Group "A"

14

Attempt ALL the questions. Tick (✓) the best answers.

- Which one is the principle of modern software management?
 - architecture - first
 - iterative process
 - component based development
 - all of the above
- Which one is the essential activity done in the elaboration phase of the software life-cycle?
 - elaborating scope
 - elaborating plan
 - elaborating vision
 - elaborate testing
- Which one is software costing parameter form of the following?
 - size
 - environment
 - quality
 - all of the above
- Which one is not a phase of software lifecycle process?
 - inception
 - elaboration
 - construction
 - risk mitigation
- Which is not a staffing principle given by Boehm?
 - job matching
 - top talent
 - no phase-out
 - career progression
- Which is not the visible surface detection algorithm?
 - Backface
 - Scan-line
 - Octree
 - Ambient
- Which graphic hardware works as input as well as output device?
 - digitizer
 - OCR
 - touch screen
 - light pen
- Which is not an illumination model of the following?
 - ambient
 - diffuse
 - phong
 - specular
- Which is not a basic geometrical transformation?
 - drawing
 - translation
 - scaling
 - rotation
- Which is the line clipping algorithm of the following?
 - Cohen - Sutherland
 - Liang - Brsky
 - Bresenham's
 - both 'a' and V
- Possible solution of linear equation is
 - unique solution
 - no solution
 - ill condition
 - all of the above
- Which is not related to Newton cotes formula of integration?
 - Simpson
 - Trapezoidal
 - Colesky
 - Boole
- Which one of the following is not interpolation formula?
 - Newton's forward difference method
 - Newton's backward difference method
 - Secant method
 - Newton's divided difference method
- Trapezoidal rule is formula of integration

- a. two-point
c. four-point

- b. three-point
d. five-point

Attempt ALL the questions.

Group "B"

6×7=42

1. Solve the following 3×3 system using the basic Gauss Elimination Method.

$$\begin{aligned} 3a + 6b + c &= 16 \\ 2a + 4b + 3c &= 13 \\ a + 3b + 2c &= 9 \end{aligned}$$

OR

Find the square root of 2.5 using the second order Lagrange Interpolation Polynomial from the following data:

X	1	2	3	4	5
F(x)	1	1.4142	1.7321	2	2.2361

2. Write Newton-Raphson algorithm to calculate the root of non-linear equation.
3. Define Computer Graphics. Write the application areas of Computer Graphics.
4. List and explain basic illumination models.

OR

- List the hidden surface removal methods and explain any two of them.
5. What are the objectives of Work Breakdown Structure? Write the conventional WBS issues.
6. List and explain software life-cycle phases.

OR

Write major improvements in next-generation software cost

Group "C"

2×12=24

7. Explain the difference between Raster and Vector scan display principle with suitable diagram.

OR

8. Explain basic two-dimensional geometric transformation with example.
8. Explain the principles of modern software management.

Exam 2072

Group "A"

14

Attempt ALL the questions. Tick (✓) the best answer.

1. Which one is the principle of modern software management?
a. Architecture-first
b. Iterative process
c. Component based development
d. All of the above
2. Which one is the essential activity done in the elaboration phase of the software life-cycle?
a. Elaborating scope
b. Elaborating Plan
c. Elaborating vision
d. Elaborate Testing
3. Which one is software costing parameter form following?
a. Size
b. Environment
c. Quality
d. All of the above
4. Which is not a phase of software lifecycle process?
a. Inception
b. Elaboration
c. Construction
d. Risk mitigation
5. Which is not a staffing principle given by Boehm?
a. Job matching
b. Top talent
c. No phase-out
d. Career progression
6. Which is not the visible surface detection algorithm?
a. Backface
b. Scan-line
c. Octree
d. Diffuse
7. Which graphic hardware works as input as well as output device?
a. Digitizer
b. OCR
c. Touch screen
d. Light pen
8. Which is not and illumination Model from following?
a. Ambient
b. Diffuse
c. Phong
d. Specular
9. Which is not a Basic geometrical transformation?
a. Drawing
b. Translation
c. Scaling
d. Rotation
10. Normal vector interpolation shading is a... shading.
a. Flat
b. Gouraud
c. Phong
d. Fast Phong
11. Possible solution of linear equation is...
a. Unique Solution
b. No Solution
c. Ill Condition
d. All of the above

12. Which is not related to Newton cotes formula of integration?
 a. Simpson b. Trapezoidal c. Dolittle d. Boole
13. Integral of $\int_1^2 (x^2 + 1) dx$ is ...
 a. 6.25 b. 4.75 c. 9.75 d. None of the above
14. Trapezoidal rule is ... formula of integration.
 a. two-point b. three-point c. four-point d. five-point

Attempt ALL the questions.

Group "B"

6×7=42

1. Write a bisection algorithm to calculate the root of non-linear equation.

OR

Find the square root of 3.5 using the second order Lagrange Interpolation Polynomial from the following data:

X	1	2	3	4	5
F(x)	1	1.4142	1.7321	2	2.2361

2. Write Newton-Rapshon algorithm to calculate the root of non-linear equation.
 3. Explain Raster scan display principle.
 4. List and explain basic shading models.

OR

List the visible surface detection methods and explain any two of them.

5. What are the objectives of Work Breakdown Structure? Write the conventional WBS issues.
 6. List and explain software life-cycle workflows.

OR

Write major improvements in next-generation software cost models.

Group "C" 2×12=24

7. Explain the difference between Raster and Vector scan display principle.

OR

Explain Basic two-dimensional geometric transformation with example.

8. Explain the principles of modern software management.

(d) JAVA and Dot Net Technology (ICT.Ed. 334)

Exam 2069

Attempt all the questions. Tick (✓) the best answers.

1. What was the original name of Java?
 a. Gosling mania b. Oak
 c. JavaScript d. Lisp 2.0
2. What are the primitive data types?
 a. byte, short, int, long b. float, double
 c. Boolean d. char
3. What is the output of this code fragment? `int X=3; int Y=10; system.out.print ln(y%X);`
 a. 0 b. 1
 c. 2 d. 3
4. You want a class to have access to members of another class in the same package. Which is the most restrictive access the accomplishes this objective?
 a. Public b. Private
 c. Protected d. Default access
5. Two methods with the same name but with different parameters is called
 a. overloading b. loading
 c. multiplexing d. duplexing
6. Find the keyword which is not used to implement exception
 a. try b. catch
 c. finally d. duplexing
7. The following java program can be embedded in a web page
 a. final code b. browser
 c. applets d. package

8. Which is not a main component of the visual studio IDE?
 a. solution Explorer
 b. Tool Box
 c. Start Menu
 d. Properties window
9. System 10 is an example of
 a. Namespace
 b. MSI
 c. CLR
 d. Class
10. Which of the following control can contain other controls?
 a. Group Box
 b. TabPage
 c. Panel
 d. all of the above
11. _____ method that converts the value to its equivalent string representation using the specified format
 a. to String
 b. to Call
 c. to Modifier
 d. to Change
12. What are the argument of inputbox?
 a. Prompt, Title, default-text, x-position and y-position
 b. Prompt, Title, default-text
 c. Prompt, default-text
 d. Prompt, Title
13. What are the core components of the Net framework data provider model?
 a. Data Adapter and Data Reader
 b. Connection and Command
 c. Data Adapter, connection and command
 d. Data Adapter, Data Reader, connection and command
14. Which of the following object is used by the Data Adapter to retrieve the data from database?
 a. command
 b. connection
 c. Data Reader
 d. Selection

Attempt all the questions.

Group "B"

6×7=42

1. What do you mean by Common Language Runtime (CLR)?
 OR
 Describe the different types of operators in VB. Net.
2. What are the different types of Loop statement in VB. Net?
 Describe with suitable example.
3. What is an object oriented programming? List major feature of the object oriented programming language.
 OR
 Describe the set and get properties with example.
4. How to read user input from Console in Java using Scanner?
 Explain with suitable example.
5. Explain with an example, how we implement an applet into a webpage using applet tag.
6. Name three standard packages supported by Java discuss them briefly.
 OR
 What are the different types of inheritance in Java?

Group "C"

2×12=24

7. What is ADO.Net? Describe the database connection using OLEDB and Sq1Client with example.
 OR
 What is an inheritance? Describe the different types of inheritance with example in VB.Net.
8. How do you define package in Java? Create a package and sub package in Java with suitable examples.

Exam 2071

Group "A"

14

Attempt ALL the questions. Tick (✓) the best answers.

1. Which of the programming language is developed with Write Once, Run Anywhere (WORA) principle?
 a. Java
 b. c#
 c. VB.Net
 d. c++

2. Consider the following program

```
public class Show SomeClass
{
//code for the class...
}

```

What is the name of the Java file containing this program?
a. myLibrary.java
b. ShowSomeClass
c. ShowSomeClass.java
d. ShowSomeClass.class
3. Which is a valid declarations of a String?
a. String s1 = null;
b. String s2 = "null";
c. String s3 = (String) 'abc';
d. String s4 == (String) Weed;
4. All the standard classes of Java are included within package called
a. java. lang
b. Java.IO
c. Java.*
d. All of the above
5. What is the ways to create threads in Java?
a. By extending Threads class
b. By embed with class
c. By implementing Runnable interface
d. Both (a) and (c)
6. Which of the Java program can be embedded in a Web page?
a. Applets
b. Browser
c. package
d. final code
7. C# belong to which framework?
a. Java
b. NET
c. MVC
d. Open Framework
8. Which are the standard prefixes for the Button and Gombo box controls respectively?
a. btn and chb
b. btn and cbo
c. bto and chb
d. bto and cbo
9. System.IO is the example of
a. Namespace
b. MSI
c. CLR
d. class
10. Which of the following is a comparison operator?
a. And
b. >
c. +
d. &
11. MDI is an acronym that stands for
a. Multiple Device Interface
b. Many Document Interlink
c. Multiple Document Interface
d. Match Document Interlink
12. How does VB .NET instantiates the .NET object?
a. Using NEW keyword
b. Using GETOBJECT keyword
c. Using CREATEOBJECT keyword
d. Both A and B
13. Which of the following is the object of .NET data provider?
a. Connection
b. Command
c. Data Reader
d. All of the above
14. Which of the following is not true for ADO.NET DataSet?
a. DataSet provides a disconnected view of a data source
b. DataSet enables to store data from multiple tables and multiple sources
c. We can create relationship between the tables in a DataSet
d. All of the above are true

Attempt ALL the questions.

Group "B"

6×7=42

1. What are the major feature of .NET Framework?
OR
What are the different data types in VB.Net?
2. Write a short note on MsgBox and InputBox.
3. What is the role of the DataSet object in ADO.NET?
OR
What are the different types of access specifier? Explain with suitable example.
4. Explain with an example how we implement an applet into a web page using applet tag.
5. Explain the try, catch and finally exception handling keyword with example.
6. Write a short note on switch statement with example.

OR

How do you define the methods in Java class?

Group "C"

2x12=24

7. What is an inheritance? Describe the different types of inheritance with example in VB.Net.

OR

What is an ADO.Net? Describe with its architecture.

8. What are the difference between while and do while loop in Java? Explain with suitable example.

Exam 2072

Group "A"

14

Attempt ALL the questions. Tick (✓) the best answer.

1. Which is not a main component of the Visual Studio IDE?
a. Solution Explorer
b. Tool Box
c. Start Menu
d. Properties Window
2. Which is a valid statement for declaring a variable?
a. Const Form As Integer
b. Const my Form As Integer
c. Dim Form As Integer
d. Dim my Form As Integer
3. _____ is a temporary set of data stored in the memory of the computer.
a. Record source
b. Dataset
c. Connector
d. Table adapter
4. Which property does the TextBox, ComboBox, and ListBox controls use to specify a data adapter object?
a. the DataSource property
b. the CurrentCell property
c. the CaptionText property
d. the Advanced DataBinding property
5. SQL statements that select data from a database and return the selected data to your program are called _____ queries.
a. parameterized
b. selection
c. action
d. application
6. Which is/are the argument of inputbox?
a. prompt, Title, default-text, x-position and y-position
b. prompt, Title, default-text
c. prompt, default-text
d. Title, default-text
7. What are the core components of the Net framework data provider model?
a. DataAdapter and DataReader
b. Connection and Command
c. DataAdapter, Connection, and Command
d. DataAdapter, DataReader, Connection, and Command
8. Which is the following object is used by the DataAdapter to retrieve the data from database?
a. Command
b. Connection
c. DataReader
d. Selection
9. What was the original name of Java?
a. Gosligmania
b. Oak
c. JavaScript
d. Lisp 2.0
10. What are primitive data types?
a. byte, short, int, long
b. Boolean
c. float, double
d. char
11. What is the output of this code fragment?
Int X=3; int Y=10; System.println (y%x);
a. 0
b. 1
c. 2
d. 3
12. You want a class to have access to members of another class in the same package. Which is the most restrictive access that accomplishes this objective?
a. public
b. private
c. protected
d. default access
13. Find the keyword which is not used to implement exception.
a. Try
b. catch
c. finally
d. access
14. What must be imported to get most graphics components?
a. Java. Graphics
b. java.awt.*
c. java.util.*
d. java.*

Attempt ALL the questions.

Group "B"

6×7=42

1. What do you understand by variable? Describe Data types, scope, lifetime and visibility of the variable.
2. Describe the set and get properties with example.
OR
Describe the purpose of Text Box, List Box, Combo box Control in VB.net.
3. What is control structure in VB. Net? Explain IF ELSE statement with suitable example.
4. Describe the Color and Font Dialog box. Elaborate by giving the appropriate programming example.
OR
What are the features in .Net Framework?
5. How to read user input from Console in Java using Scanner? Explain with example.
6. Write a program which will show the concept of simple Java applet and implementation of applet.
7. What is Java Exception Handling? What is the difference between Errors, Unchecked Exception and Checked Exception?
OR
What are the different types of inheritance in Java?
Group "C" 2×12=24
8. What is ADO.Net? Describe the database connection using OLEDB and SqlClient with example.
OR
What is ADO.Net? Describe with its architecture.
9. How do you define package in java? Create a package and sub package in java with suitable example.

(e)e-Learning (ICT.Ed.333)

Exam 2069

Group "A"

14

Attempt all the questions. Tick (✓) the best answers.

1. Which are the component frameworks for e-learning?
a. pedagogical, technological, interface design, evaluation, management, resource, support, ethical, institutional
b. logical, pedagogical, technological, interface design, evaluation
c. relational, management, resource support, ethical, institutional
d. none of the above
2. What is the correct syntax for referring to an external script called "ict.js"?
a. <script type="text/javascript" href="ict.js">
b. <script type="text/Javascript" src="ict.js">
c. <script type="text/Javascript" name="ict.js">
d. <script type=" text/Javascript" add="ict.js">
3. How do you write a conditional statement for executing code if "i" is NOT equal to 5?
a. if (i 5)
b. if (i !=5)
c. if=i 5 then
d. if 5
4. Which CSS property controls the text size?
a. font-style
b. text-style
c. font-size
d. text-size
5. What kind of servers make it possible to create Web addresses using words instead of number4s?
a. FTP servers
b. XML servers
c. domain name servers
d. all of the above
6. What is a correct way to add a comment in PHP?
a. <!-- ... -->
b. /* ... */
c. <comment> .. <comment>
d. * .. *
7. How do you get information from a form that is submitted using the "get" method?
a. \$_GET[];
b. Request, Form;
c. Request, Query String;
d. \$GET[];
8. What is the correct way to create a function in PHP?

- a. create my Function ()
 c. new function my Function()
 b. function my Function()
 d. int my Function()
9. When do we use a HAVING clause?
 a. To limit the output of a query
 b. To limit the output of a query using an aggregate function only
 c. When GROUP by is used
 d. both b and c above
10. How do we submit form data without a Submit button?
 a. Using header() function
 b. Using Javascript
 c. Using set_submit - form action function-
 d. Both a and b above
11. What is the correct way to connect to a MySQL database?
 a. dbopen (\$strHostName, \$strUserName, \$strPassword);
 b. mysqlopen(\$strHostName, \$strUserName, \$strPassword);
 c. mysql - connect (\$strHostName, \$strUserName, \$strPassword);
 d. mysqlconnect (\$strHostName, \$strUserName, \$strPassword);
12. Which is not LMS tool?
 a. Joomla
 b. Ruby
 c. moodle
 d. Twitter
13. attacks use fake emails and counterfeit websites to trick you into giving them information like credit card numbers, account usernames, passwords or social security numbers.
14. What is term for the security measure that hides the identity of sensitive information sent across Web servers?
 a. distortion
 b. ciphers
 c. encryption
 d. protection

Attempt all the questions.

Group "B"

6×7=42

1. What are the different between Web 2.0 and e-Learning 2.0?
 Describe the 5 characteristics of e-Learning 2.0.
 OR
 Describe the different e-Learning paradigms.
2. Write Java script to find and display the greatest number among 10 different number that are enter into your browser screen from prompt dialog box.
 OR
 How do you define and call function in the Java Script? Explain with suitable example.
3. Define a CSS. Explain the different types of style sheet.
4. What is an Array? How do you use in PHP?
 OR
 Describe the use of function in PHP.
5. What are major components of LMS? Describe.
6. What is counter measures on online channel of e-Learning?

Group "C"

2×12=24

7. Discuss about MYSQL database function to connect with PHP script with Login form management i.e. if user id and password are correct to display next page.
 OR
 What is an Array in PHP? Describe the string manipulation function with example.
8. What are different types of looping structures in Java Script?

Exam 2071

Group "A"

14

Attempt ALL the questions. Tick (✓) the best answers.

1. What are the difference between wiki and blog?
 a. Wiki constructing knowledge, a blog distributing news
 b. blog constructing knowledge, a wiki distributing news
 c. Blog is Web 1.0 and Blog is web 2.0
 d. both handle American Government
2. What is the correct JavaScript syntax to write "Hello World"?
 a. ("Hello World")
 b. response.write("Hello World")
 c. document.write("Hello World")
 d. "Hello World"
3. Which pair of events is commonly used to create rollovers?
 a. onLoad/onUnload
 b. onMouseOver/onMouseOut

- c. onClick/onMouseDown d. Swap Image/Swap Image Restore
- What is the correct HTML syntax for referring to an external style sheet?
 a. <stylesheet>mystyle.css</stylesheet>
 b. <link rel="stylesheet" type="text/css" href="mystyle.css">
 c. <style src="mystyle.css"/>
 d. <style rel="mystyle.css">
 - Which is the correct CSS syntax?
 a. body (color:black)
 b. {body;color=black(body)}
 c. {body;color:black}
 d. body.xolor=black
 - Which is NOT Web server?
 a. Apache
 b. Microsoft-IIS
 c. Nginx,
 d. Mozilla
 - How do you get information from a form that is submitted using the "get" method?
 a. \$_GET[];
 b. Request.Form;
 c. Request.QueryString;
 d. \$GET[];
 - What is the correct way to include the file "time.inc"?
 a. <?phpinclude file ("time.inc")
 b. <?php require("time.incM");?
 c. <!--include file="time.inc"-->
 d. <% include file="time.inc"%>
 - What is the correct way to add-1 to the Scout variable?
 a. count++;
 b. \$count++;
 c. Scout+=1
 d. ++count
 - What is the correct way to connect a MySQL database?
 a. dbopen("localhost");
 b. connect_mysql("localhost");
 c. mysql_open("localhost");
 d. mysql_connect("localhost");
 - How can we get the number of records or rows in a table?
 a. Using COUNT
 b. Using NUM
 c. Using NUMBER
 d. Both a and c above
 - What are feature of a LMS?
 a. centralize and automate administration
 b. use self-service and self-guided services
 c. consolidate training initiatives on a scalable web-based platform
 d. all of the above
 - Which is the most popular LMS tool?
 a. Facebook
 b. wiki
 c. moodle
 d. RSS
 - is a type of malicious software that installs itself on your computer without your informed consent and uses your computer to generate a profit for the software makers.
 a. Spyware b. Trojan c. Virus d. Spam

Attempt ALL the questions.

Group "B"

6×7=42

- What are the different types of e-Learning Methods? Describe it.
 OR Describe the e-learning framework.
- What looping structures are there in JavaScript?
 OR How do you define and call function in Java Script? Explain with example.
- What is CSS? Explain.
- What are the differences between Get and Post methods in form submitting?
 OR What are the different types of errors in the PHP?
- Write a short on LMS. List out most popular e-learning tools.
- How do you protect the online channel?
 Group "C"
 2×12=24
- How can we create a database using PHP and MySQL? Explain with suitable example.
 OR What are the different types of control structure in PHP? Explain with suitable example.
- What is a Java Script? Create three mouse control events to control the client side form.