



UNIVERSITY OF THE PUNJAB

Roll No.

First Semester 2018
Examination: B.S. 4 Years Programme

PAPER: Computer-I
Course Code: COMP-101

TIME ALLOWED: 30 mins.
MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

Choose correct option.

1. Central Processing Unit (CPU) consists of							
A.	control unit	B.	arithmetic and logic unit	C.	main store	D.	all of above
2. Input and Output devices such as monitors and keyboards are classified as							
A.	arithmetic units	B.	control unit devices	C.	peripheral devices	D.	main store devices
3. Which one of the following is a non-impact printer?							
A.	Active matrix Printer	B.	Line Printer	C.	Dot-Matrix	D.	Laser Printer
4. _____ computers represent data as variable points along a continuous spectrum of values							
A.	Analog	B.	Digital	C.	Precise	D.	Mainframe
5. The term -----refers to the sharpness or clarity of an image.							
A.	Width	B.	Resolution	C.	Dot pitch	D.	Depth
6. The _____ is the electronic pathway between components in the computer.							
A.	CPU	B.	Bus	C.	RAM	D.	Register
7. Secondary storage memory is basically							
A.	volatile memory	B.	non volatile memory	C.	backup memory	D.	impact memory
8. High resolution means							
A.	Greater number of pixels	B.	Larger pixel size	C.	Accurate voice recognition	D.	Bigger picture
9. Microsoft Excel is a _____							
A.	Word Processing	B.	Database Management System	C.	Spread Sheet Software	D.	None of above
10.Both station can transmit and receive data simultaneously in							
A.	simplex mode	B.	Half duplex mode	C.	Full duplex mode	D.	None of Above



UNIVERSITY OF THE PUNJAB

First Semester 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Computer-I
Course Code: COMP-101

TIME ALLOWED: 2 hrs. & 30 mins.
MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

Answer the following short questions. Each question carries equal marks. (2 x 10) 20

1. What are Super Computers?
2. Differentiate between software and hardware?
3. What are Reports in Access?
4. What does mean by Device Driver Software?
5. Differentiate between Data and Information.
6. Differentiate between Excel Work Book and Work Sheet.
7. What is Solid State Memory?
8. What is Slide Animation in MS Power Point?
9. What is the function of Drop Cap in MS Word?
10. What are Ink Jet Printers?

Answer following Long Questions. (10 x 3) 30

1. What is Memory? Describe ROM with its types.
2. Define output devices, explaining all major types of input devices?
3. Describe and explain IF- ELSE formula in MS Excel with example. Also Write any two features of MS Power point with their uses and applications?



UNIVERSITY OF THE PUNJAB

Roll No.

First Semester 2018
Examination: B.S. 4 Years Programme

PAPER: Computer (Introduction and Applications)
Course Code: COMP-111/ CMP-11019

TIME ALLOWED: 30 mins.
MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

Section I: Objective

Q1. Chose at least one correct answer

Marks: 10

- The brain of the computer. This part does the calculation, moving and processing of information
A. CPU B. RAM C. Motherboard D. Hard Drive
- Part of a computer that allows a user to put information into the computer
A. Output Device B. Software C. Operating System D. Input Device
- The difference between memory and storage is that memory is and storage is ...
A. Temporary, permanent B. Permanent, temporary C. Slow, fast D. All of above
- A worldwide network of computers
A. CPU B. Internet C. RAM D. Network
- The technology used to read pencil or pen marks on a multiple choice answer sheet is
A. OCR B. OMR C. POS D. ORM
- A Simulated experience generated by computer, like visiting the surface of the sun is called
A. Artificial Solar visitation C. Extended experience
B. Virtual reality D. Vicarious actuality
- A part of the computer that all other parts are connected to. It allows all of the parts to communicate so they work together
A. Operating System B. Disk Drive C. Motherboard D. Output Device
- The output quality of a printer is measured by
A. Dot per sq. inch C. Dot per inch
B. Dots printed per unit time D. All of the above
- Which is valid statement
A. 1 KB = 1024 Bytes
B. 1 MB = 1024 Bytes
C. 1 KB = 1000 Bytes
D. 1 MB = 1000 Bytes
- ___ software performs functions specific to a business or industry.
A. Retail
B. Open source
C. Shareware
D. Custom



UNIVERSITY OF THE PUNJAB

First Semester 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Computer (Introduction and Applications) TIME ALLOWED: 2 hrs. & 30 mins.
Course Code: COMP-111/ CMP-11019 MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

Section II: Subjective

Q2. Give brief answers to the following questions (Short Questions). Marks: (10*2=20)

1. Differentiate between SSD and HDD.
2. Define data and information.
3. Define Internet. How does the Internet work?
4. What are the major components of a computer networks?
5. Define network and protocol.
6. Differentiate between intranet and internet.
7. Define web Browser with two examples.
8. What do you mean by multitasking?
9. What are the advantages of using database?
10. Differentiate between Volatile and non-volatile memory.

Q3. Give detail answers to the following questions (Long Questions) Marks: 30

1. What are the main types of computers? Describe in detail with their usage in real life.
2. Define malware and its type in detail?
3. How to safeguard your personal information?
4. Write down the procedure to create the following Table also write to change the table background color, border color, border style columns height and rows width.

UNIVERSITY OF THE PUNJAB			
MS WORD		MS EXCEL	
THEORY	PRACTICAL	THEORY	PRACTICAL
77	79	98	33



UNIVERSITY OF THE PUNJAB

First Semester - 2017

Examination: B.S. 4 Years Programme
(Special Examination)

Roll No.

PAPER: Computer (Introduction and Applications)
Course Code: COMP-111/ CMP-11106 / 11019

TIME ALLOWED: 30 mins.
MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

Choose correct option.

Marks: 10

1. A graphic tablet is commonly activated by

- A. Finger B. Joystick C. Stylus D. Trackball

2. Laser printer is an example of

- A. Non impact B. Impact C. Inkjet D. Dot matrix

3. The top most layer of OSI model is

- A. Network B. Session C. Transport D. Presentation

4. Which of the following is NOT a category of network

- A. LAN B. MAN C. WAN D. NAN

5. Analog signal is measured in

- A. Volt B. Hertz C. WATTS D. Digits

6. Each location in primary storage is assigned a unique

- A. Data B. Field C. Name D. Address

7. All are types of Memory EXCEPT.

- A. DRAM B. SRAM C. FRAM D. ROM

8. Which one is faster

- A. RAM B. Cache C. Register D. Hard Disk

9. Another word for pointer

- A. Cursor B. Pixel C. Mouse D. None

10. The brain of any computer system is

- A. ALU B. Memory C. CPU D. Control Unit



UNIVERSITY OF THE PUNJAB

First Semester 2017

Examination: B.S. 4 Years Programme
(Special Examination)

Roll No.

PAPER: Computer (Introduction and Applications) TIME ALLOWED: 2 hrs. & 30 mins.
Course Code: COMP-111/ CMP-11106 / 11019 MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

Answer the following short questions. Each question carries equal marks. (2 x 10)20

1. Describe the function of Arithmetic and Logic Unit.
2. RAM is called volatile memory. Justify.
3. State the use of Copy Paste Function in MS Word.
4. What is EEPROM?
5. What is Modem also name its types?
6. What are super computers?
7. Differentiate between system software and application software?
8. Explain Modes of Data Transmission?
9. What are Nested Functions in Excel?
10. Differentiate between Analog and Digital Computers?

Answer following Long Questions. (10 x 3) 30

1. Explain different types of Non-Impact Printers.
2. Define Storage devices, explaining all major types of storage devices?
3. Explain how you create and manipulate charts in MS Excel. Also Explain Slide Animations and Animation Effects of MS Power point?



UNIVERSITY OF THE PUNJAB

First Semester 2018
Examination: B.S. 4 Years Programme

Roll No.

PAPER: Computer Applications in Business
Course Code: COMP-121 / CMP-11019

TIME ALLOWED: 2 hrs. & 30 mins.
MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

SUBJECTIVE TYPE

Q.2 Answer the following short questions.

(20)

- I. Define RAM. What are different types of RAM?
- II. Define mechanical and electronic data processing.
- III. What is the difference between procedural and non-procedural programming languages?
- IV. What are the uses of super computer?
- V. Define control unit. What is the importance of control unit in data processing?
- VI. What is slide transition?
- VII. What so you mean by slide design?
- VIII. Write down syntax of average formula.
- IX. Define network topology.
- X. Define computer program.

Give answers of the following questions:

(30)

- Q.3 Explain different types of digital computer in detail.
- Q.4 Write down steps to insert charts in MS-Excel.
- Q.5 Define software. What are the different types of System Software and Application Software? Explain with examples.



Attempt this Paper on this Question Sheet only.

(OBJECTIVE)

Q.1 Encircle the appropriate answer from the options given against each question. (10)

1. MS-Excel is an example of _____:
 - a. Application Software
 - b. Presentation Software
 - c. Operating System
 - d. Utility Program
2. Which of the following is a type of impact printer?
 - a. Inkjet printer
 - b. Laser printer
 - c. Photo printer
 - d. Dot matrix printer
3. _____ converts analog signals into digital signals and digital signals into analog signals.
 - a. Router
 - b. MODEM
 - c. Hub
 - d. Switches
4. _____ is sequential access device
 - a. Tape storage
 - b. CD
 - c. RAM
 - d. DVD
5. The IC (integrated circuit) was used in _____ generation of computers for the first time.
 - a. 1st
 - b. 2nd
 - c. 3rd
 - d. 4th
6. A _____ is a computer that controls a computer network.
 - a. Laptop
 - b. Desktop
 - c. Server
 - d. Client
7. Which of the following is a mechanical machine?
 - a. Desktop Computer
 - b. Photocopy Machine
 - c. Laptop Computer
 - d. Mainframe
8. _____ is the process of obtaining data from input device during a machine cycle.
 - a. Fetch
 - b. Decode
 - c. Execute
 - d. Store
9. _____ is not a communication device.
 - a. NIC
 - b. Modem
 - c. Cable Modem
 - d. Coaxial cable
10. _____ option file all open program windows side-by-side on the screen.
 - a. Split
 - b. Freeze panes
 - c. Arrange all
 - d. None of the above is true



UNIVERSITY OF THE PUNJAB

Second Semester - 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Computer -II

TIME ALLOWED: 2 Hrs. & 45 Mints.

Course Code: COMP-103 Part – II

MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

Q2. Give Short answer of the following questions.

Marks (2*10=20)

1. Define super key?
2. What is Database Management System?
3. How many components of the DBMS?
4. Define Weak Entities and Strong Entities?
5. Define the term entity?
6. Difference between Generalization and Specialization?
7. Explain the term of Data integrity?
8. Difference between secondary Key and alternate Key?
9. Difference between file processing system and database system?
10. Difference between data and information?

Subjective Type

Marks(3*10=30)

Q3.What is Relationship Cardinality? Discuss different cardinalities in detail? Give example for each?

Q4.Discuss Normalization and its steps in detail?

Q5.Define an attribute? Discuss different types of attributes in detail?



UNIVERSITY OF THE PUNJAB

Second Semester - 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Computer -II

Course Code: COMP-103 Part – I (Compulsory)

TIME ALLOWED: 15 Mints.

MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Each MCQ carries 1 Mark. This Paper will be collected back after expiry of time limit mentioned above.

Q1: Choose the best answer

(10*1=10)

- i) All records in a file have the same:**
- a) contents
 - b) structure
 - c) both a and b
 - d) none
- ii) SQL stands for:**
- a) short-query-list
 - b) seek-qualify-label
 - c) structure-query-language
 - d) none
- iii) which of three schemas used in three-scheme model is a complete logical view of database:**
- a) external
 - b) internal
 - c) implementation
 - d) conceptual
- iv) which of the following is not a major area for the database administrator?**
- a) planning
 - b) programming
 - c) implementation
 - d) security
- v) A person name, birthday, and social security number are all example of:**
- a) attributes
 - b) entities
 - c) relationships
 - d) descriptors
- vi) A relationship is an association between _____.**
- a) objects
 - b) entities
 - c) databases
 - d) fields
- vii) Every relation must have :**
- a) primary key
 - b) candidate key
 - c) secondary key
 - d) b and c
- viii) In 3NF, a non-key attribute must not depend on a:**
- a) non-key attribute
 - b) key attribute
 - c) composite key
 - d) short key
- ix) A relation is considered a:**
- a) column
 - b) one-dimensional table
 - c) two-dimensional table
 - d) three-dimensional table
- x) DB Stands for:**
- a) Decision Base
 - b) Declaration Base
 - c) Data Base
 - d) Both a & C



UNIVERSITY OF THE PUNJAB

Second Semester - 2018
Examination: B.S. 4 Years

Roll No.

PAPER: Computer (Introduction and Applications)
Course Code: COMP-111 Part – I (Compulsory)

TIME ALLOWED: 15 Min.
MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Each MCO carries 1 Mark. This Paper will be collected back after expiry of time limit mentioned above.

Q. 1

(10x1=10)

1. An example of optical read/write medium is

- A. CD-RW B. Zip disk C. Hard disk D. Floppy disk

2. Which one of the following is a non-impact printer?

- A. Line Printer B. Ink-jet Printer C. Dot-matrix D. Active matrix Printer

3. The top most layer of OSI model is

- A. Network B. Session C. Transport D. Presentation

4. Which of the following is NOT a category of network

- A. LAN B. MAN C. WAN D. NAN

5. Analog signal is measured in

- A. Volt B. Hertz C. WATTS D. Digits

6. Each location in primary storage is assigned a unique

- A. Data B. Field C. Name D. Address

7. All are types of Memory EXCEPT.

- A. DRAM B. SRAM C. FRAM D. ROM

8. The smallest addressable unit of storage on a disk is called a

- A. Cluster B. Sector C. Cylinder D. Track

9. Another word for pointer

- A. Cursor B. Pixel C. Mouse D. None

10. Which of the following is not a communication media.

- A. UTP B. Twisted Pair Cable C. Microwave D. Modem



UNIVERSITY OF THE PUNJAB

Second Semester - 2018
Examination: B.S. 4 Years

Roll No.

PAPER: Computer (Introduction and Applications)
Course Code: COMP-111 Part – II

TIME ALLOWED: 2 Hrs. & 45 Min.
MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

Q.2

Answer the following short questions. Each question carries equal marks. (2 x 10)20

1. Define Operating system?
2. What does mean by Device Driver Software?
3. What is Data communication?
4. What are super computers?
5. Differentiate between Analog and Digital Computers?
6. Describe the function of Arithmetic and Logic Unit.
7. RAM is called volatile memory. Justify.
8. State the use of Copy Paste Function in MS Word.?
9. Explain DBMS?
10. What are Nested Functions in Excel?

Q.3

Answer following Long Questions. (10 x 3) 30

1. Explain different types of Non Impact Printers.
2. Define Input devices, explaining all major types of Input devices?
3. Explain how you create slides in MS Power Point. Also Write any two features of MS Power point with their uses and applications



UNIVERSITY OF THE PUNJAB

Second Semester - 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Introduction to Computers (Revised)
Course Code: COMP-121 Part – I (Compulsory)

TIME ALLOWED: 15 Mints.
MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Each MCQ carries 1 Mark. This Paper will be collected back after expiry of time limit mentioned above.

Q.1

(10x1=10)

1. Which of the following is not inside the system unit

- A. RAM B. Monitors C. Hard Disk D. Adapter Cards

2. High resolution means

- A. Greater number of pixels B. Larger pixel size C. Accurate voice recognition D. Bigger picture

3. Which one of the following is a non-impact printer?

- A. Line Printer B. Ink-jet Printer C. Dot-matrix D. Active matrix Printer

4. _____ computers represent data as variable points along a continuous spectrum of values

- A. Analog B. Digital C. Precise D. Mainframe

5. A type of storage that does not accept new information ?

- A. Hard Drive B. Removable Media C. Random Access Memory D. Read Only Memory

6. A _____ is an example of a solid-state memory device.

- A. flash memory drive B. CD-RW C. floppy disk D. hard disk

7. The _____ is the electronic pathway between components in the computer.

- A. CPU B. bus C. RAM D. register

8. _____ is a collection of unprocessed items, which can include text, numbers, images, audio and video.

- A. Data B. Computer C. Information D. Instruction

9. The term _____ refers to the sharpness or clarity of an image.

- A. Width B. Resolution C. Dot pitch D. Depth

10. GB is approximately

- a. 1,000KB b. 1,024MB c. 100TB d. B & C



UNIVERSITY OF THE PUNJAB

Second Semester - 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Introduction to Computers (Revised)

Course Code: COMP-121 Part – II

TIME ALLOWED: 2 Hrs. & 45 Mints.

MAX. MARKS: 50

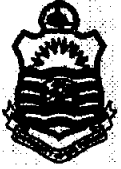
Attempt this Paper on Separate Answer Sheet provided.

Q.2 Answer the following short questions. Each question carries equal marks. (2 x 10)20

1. What are plotters?
2. What is Modem also name its types?
3. Differentiate between low level language and high level language?
4. What does mean by Device Driver Software?
5. Differentiate between Memory and Storage?
6. What is computer Bus?
7. Differentiate between system software and application software?
8. Differentiate between Analog and Digital Computers?
9. What are the features of Windows XP?
10. What is Use of Computers in Business/Commerce?

Q.3 Answer following Long Questions. (10 x 3) 30

1. What is Computer Memory Explain types of RAM?
2. Define output devices, explaining all major types of input devices?
3. Describe and explain IF- ELSE formula in MS Excel with example. Also Write any two features of MS Power point with their uses and applications?



UNIVERSITY OF THE PUNJAB

Third Semester 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Computer-III

TIME ALLOWED: 2 hrs. & 30 mins.

Course Code: COMP-201/CMP-21316

MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

SUBJECTIVE

ANSWER THE FOLLOWING SHORT QUESTIONS

[5 * 4 Marks]

- 2) What is the difference between use of a <div> and a <frame> tag in the HTML?
- 3) Do all HTML elements need both opening and closing tags? Give suitable examples.
- 4) What are CSS preprocessors and why do we use them?
- 5) What are three benefits which exceptions bring to Object-Oriented Programming?
- 6) Describe difference between features Abstraction and Encapsulation as per Java Language.

ANSWER THE FOLLOWING LONG QUESTIONS

[10 * 3 Marks]

- 7) Write a method in Java, called mySubString that takes 2 strings as arguments and returns a boolean value: true, only if one of the strings is a substring of the other. Do NOT use any manipulation methods of the String class other than length().
- 8) Explain the difference between how method parameters are passed for variables that contain object references and variables that contain primitive data types.
- 9) What is JDBC Connection? Explain steps to get Database connection in a simple java program and also write the java code as example.



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Roll No.

Third Semester 2018
Examination: B.S. 4 Years Programme

PAPER: Computer-III
Course Code: COMP-201/CMP-21316

TIME ALLOWED: 30 mins.
MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

OBJECTIVE

1) **SELECT THE CORRECT OPTION AS ANSWER** [2 * 5 Marks]

- a) Which component is responsible for converting byte code into machine specific code?
a. a) JVM b) JDK c) JIT d) JRE
- b) Which of the below is not a memory leak solution?
a. a) Code changes b) JVM parameter tuning
b. c) Process restart d) GC parameter tuning
- c) Which of these interfaces is implemented by Thread class?
a. a) Runnable b) Connections c) Set d) MapConnections
- d) Which tag should be used to pass information from JSP to included JSP?
a. a) Using <%jsp:page> tag b) Using <%jsp:param> tag
b. c) Using <%jsp:import> tag d) Using <%jsp:useBean> tag
- e) What is it called where child object gets killed if parent object is killed?
a. a) Aggregation b) Composition
b. c) Encapsulation d) Association



UNIVERSITY OF THE PUNJAB

Third Semester 2018
Examination: B.S. 4 Years Programme

Roll No.

PAPER: Computer Science-I
Course Code: COMP-211/IT-21335

TIME ALLOWED: 2 hrs. & 30 mins.
MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

SUBJECTIVE

Q.2.	<p>Write short answers of the following Questions:</p> <ol style="list-style-type: none"> 1 What is the difference between input and output devices? Write an algorithm to calculate cube of a number (e.g., $y = x^3$) 2 Give decimal equivalent of binary number: 11001010. 3 Differentiate between computer Printer and Display unit. Write examples for each. 4 What is difference between a LAPTOP and Desktop computer? 5 Comment on the following in C++: while and for. 	20= 4x5
Q.3.	<p>How the steps input, process and output are graphically shown in a flow chart? Differentiate between an algorithm and a flow chart? Write an algorithm to calculate and print square of a number (i.e., $c = (a^2 + b^2)$). Write C++ program to print the series and also display corresponding average and sum of even numbers in the range from 2 to 88. How you can print only odd numbers in the above series?</p>	10
Q.4.	<p>Write program to read from the user a value of t and prints out y1, y2 and y3 in C++ such that:</p> $y1 = \sin(e^{\sqrt{2t}}) , y2 = e^{\frac{2t-4}{4}} \text{ and } y3 = \cos(\sin e^t).$	10
Q.5.	<p>a) For an object thrown at an angle “Θ” and initial velocity “u”, the horizontal range “R” is given by:</p> $R = \frac{u^2 \sin(2\theta)}{g}, \text{ where } g=9.8 \text{ m/s}^2 \text{ and } u= 120\text{m/s.}$ <p>Write a program to print out R against angle Θ values. Take angle varies from 30^0 to 60^0 in step size of 3^0.</p> <p>b) Comment on the following: int, main() and getch(),</p>	10



UNIVERSITY OF THE PUNJAB

Roll No.

Third Semester 2018
Examination: B.S. 4 Years Programme

PAPER: Computer Science-I
Course Code: COMP-211/IT-21335

TIME ALLOWED: 30 mins.
MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

OBJECTIVE

Q1: Each question has FOUR possible answers. Select the correct answer and encircle it.

1x 10 = 10

- i. Which one of the following is not an output device?
(a) Monitor (b) Web-cam (c) Digital projector (d) Printer
- ii. Decimal number 48 has its equivalent binary that is equal to:
(a) 110000 (b) 110100 (c) 011000 (d) 0111010
- iii. For `int a, A;` which of the following is true in C++:
(a) Your variable: A (b) Your variable: a (c) Your variable: a and A (d) false
- iv. Which of the following is true for choosing variable name in C++ program:
(a) numeric (b) alphabet (c) alphanumeric (d) both b and c
- v. The graphical representation of arranged numbers of steps written to solve for a particular problem is called:
(a) solution (b) pseudo code (c) algorithm (d) flow chart
- vi. The file extension of C++ program is:
(a) .cpp (b) .c++ (c) c program (d) .doc
- vii. In case of for loop, it is:
(a) fixed iterations loop (b) condition control loop (c) easy loop (d) incremental
- viii. In case of while loop it is:
(a) fixed iterations loop (b) condition control loop (c) easy loop (d) incremental
- ix. C++ is run under:
(a) interpreter (b) compiler (c) translator (d) both a and b
- x. The series of input, process and storage of data in a computer process is:
(a) Presentation program (b) information cycle (c) application program (d) All



UNIVERSITY OF THE PUNJAB

Fourth Semester - 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Computer -IV

TIME ALLOWED: 15 Mints.

Course Code: COMP-203 / CMP-22316 Part – I (Compulsory) MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Each MCQ carries 1 Mark. This Paper will be collected back after expiry of time limit mentioned above.

Question #: 1

(1x10=10)

1. Visual Basic was developed to support GUI baed _____ driven applications.
a. Event b. Machine c. Algorithm d. control
2. Objects contains data and _____.
a. Events b. Methods c. Control d. Structure
3. In Visual Basic a form is another name for a(n).
a. Object b. Window c. Label d. Property
4. Forms and controls are collectively recognized as _____.
a. Properties b. Methods c. Objects d. Events
5. Which form event is used to assign the default values to form and controls on the form
a. Load b. Unload c. Activate d. Terminate
6. Which form property will put text in the title bar of the form?
a. Title b.BorderText c. Header d. Caption
- 7.Which data type is used to handle a Yes or No response?
a. Boolean b. Integer c. Short d. Date
8. Relational Operator are used to _____ numbers.
a. compare b. Add c. multiply d. divide
9. Debug window is the same as _____ window.
a. Object b. Form c. Procedure d. code
10. _____ box provides a set of choices to the user.
a. command b. list c. combo d. text



UNIVERSITY OF THE PUNJAB

Fourth Semester - 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Computer -IV

Course Code: COMP-203 / CMP-22316 Part – II

TIME ALLOWED: 2 Hrs. & 45 Mints.

MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

Question #: 2 short questions.

(2 x 10)20

1. Differentiate between Procedural and Non Procedural languages.
2. What is Properties Window?
3. What is the use of KeyDown and KeyUp events?
4. Explain Multidimensional Arrays?
5. Differentiate between Properties and Methods.
6. What is the purpose of Val function?
7. What are Control Structures?
8. What is the use of AND operator?
9. When should you use Do..Until Loop?
10. What is control Array?

Question #: 3 LongQuestions. (10 x 3) 30

1. Explain the various control tools in the toolbox.
2. Write a program to display first 5 numbers with their squares and cubes.
3. Write a program that get ten numbers from user in an array and display maximum number.



UNIVERSITY OF THE PUNJAB

Fourth Semester - 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Computer Science-II

TIME ALLOWED: 15 Mints.

Course Code: COMP-212 / IT-22335 Part - I (Compulsory)

MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Each MCQ carries 1 Mark. This Paper will be collected back after expiry of time limit mentioned above.

Q.1

(1x10=10)

- i. To pick the odd out in C++ in the following:
(a) array type (b) character type (c) boolean type (d) integer type
- ii. Which of the following is used to data print of 5th row 4th column in a matrix a?
(a) `cout<<a[5,4]` (b) `cout<<a[4][3]` (c) `cout<<a[4,5]` (d) `cout<<a(4)(3)`
- iii. Which data type is used to represent the absence of parameters in C++ ?:
(a) `int` (b) `float` (c) `void` (d) `double`
- iv. What is output for the statements: `for (int i=0; i<=3; i= i+1)`
`cout<<(i-1)<<" "`;
(a) 0 1 2 3 (b) -1 0 1 2 3 (c) 1 2 3 (d) -2 -1 0 1 2 3
- v. What does an escape code `\a` represent?
(a) alert (b) backslash (c) tab (d) form feed
- vi. If `x=2` and `y=-2`, then for statement "`z = -2*x - 5*y`" which result is true
(a) 6 (b) -4 (c) -6 (d) none
- vii. Which type is best suited to represent the logical values?
(a) integer (b) boolean (c) character (d) all of the mentioned
- viii. A function named `S` with void return and argument type, the following call to the function is correct:
(a) `k1 = S(k2)`; (b) `S(k1)`; (c) `S()`; (d) `k1 = S()`;
- ix. if `a = 13` and `b= 26` then for "`b <= 2*a`" the following is correct for:
(a) 13 (b) 0 (c) false (d) true
- x. Pick the odd one out in C++:
(a) integer, character, Boolean, floating (b) for, while (c) if, while (d) All



UNIVERSITY OF THE PUNJAB

Fourth Semester - 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Computer Science-II

TIME ALLOWED: 2 Hrs. & 45 Mints.

Course Code: COMP-212 / IT-22335 Part – II

MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

<p>Q.2.</p> <p>i.</p> <p>ii.</p> <p>iii.</p>	<p>Write short answers of the following Questions:</p> <p>Discuss with example the following terms in C++:</p> <p>a) If-else (b) do-while (c) sqrt()</p> <p>Write C++ program which reads in a number from the user and calculates its factorial.</p> <p>Write C++ program code segment for the following:</p> <p>(a) To sort the data in the array in descending order. (b) To read 10 numbers from user and print them. (c) To read and print cube values of a linear array elements. (d) To read and print a matrix A with 2 rows and 3 columns (e) To determine and print the values for transpose of a matrix</p>	<p>6</p> <p>4</p> <p>10</p>
<p>Q.3.</p>	<p>Write syntax for a user defined function in C++? What is advantage of a user define function?</p> <p>Write program to implement $f(x) = 7x^3 - 42x^2 + 99x + 90$ for [-6 6] using arrays and function, the interval is given by: $h= 0.01$. Also, print values of x and $f(x)$, find out sum, minimum and average of $f(x)$ values.</p>	<p>2+8</p>
<p>Q.4.</p>	<p>Suppose A, B, C, D and E are matrices (3x3). Write C++ program which reads in entries of A and B and prints out the entries of: i) $C = 4A + \frac{1}{4}B$ and (ii) $D = A - B$. (iii) $E = \frac{A+18C'}{2}$. (where C' is transpose of C).</p>	<p>10</p>
<p>Q.5.</p>	<p>Write syntax of for loop in C++? What is advantage of for loop?</p> <p>For an object thrown at an angle “Θ” and initial velocity “u”, the horizontal range “R” is given by:</p> $R = \frac{u^2 \sin(2\theta)}{g}, \text{ where } g=9.8 \text{ m/s}^2 \text{ and}$ <p>$u = [120 \ 160] \text{ m/s, with } h=10$.</p> <p>Write a program to print out R against angle Θ values using arrays. Take angle varies from 30^0 to 60^0 in step size of 3^0. Also calculate maximum value of R at the given data set.</p>	<p>2+8</p>