

SYLLABUS OF COMPUTER / IT OLYMPIAD

Computer Science : Introduction of computer, Main Parts of Computers, Uses of computer, Introduction to Keyboard and Mouse, Starting and Shutting down Computer, Introduction to MS Paint

CLASS

1

1. Words and sentences are typed using _____ keys.
(A) Number (B) Special
(C) Alphabet (D) Control

2. CPU is called the brain of the computer. What does CPU stand for ?
(A) Control Processing Unit (B) Calculations Processing Unit
(C) Central Processing Unit (D) Computer Processing Unit

3. How many alphabet keys are there on a keyboard ?
(A) 10 (B) 20
(C) 25 (D) 26

4. Pressing and releasing the mouse button means _____.
(A) Typing (B) Clicking
(C) Hitting (D) Pushing

5. A computer is a machine which helps us to _____.
(A) Solve sums (B) Draw pictures
(C) Listen to music (D) All of these

6. Which one of the following figures is NOT an Output Device?
(A) Printer (B) Monitor (C) Speaker (D) Scanner



7. A computer needs_____ to work.
(A) Air (B) Food (C) Electricity (D) Fan

8. Which one is a light weight and compact Computer.
(A) Laptop (B) Monitor



(C) Computer (D) CPU



9. Which one of the following devices helps you to listen to music using Computer?

(A) Speaker (B) Microphone



(C) Monitor (D) Joystick



10. Which one of the following is commonly used in CPU to connect different parts?

(A) CD-ROM (B) Printer



(C) Data cable (D) Scanner



SPACE FOR ROUGH WORK

ANSWERS





(1) C (2) C (3) D (4) B (5) D (6) D (7) C (8) A (9) A (10) C

SYLLABUS OF COMPUTER / IT OLYMPIAD

Computer Science : Types of computer, Parts of computer, Working of computer, Keyboard and mouse usage, Uses of computer in our world, Notepad, MS-Paint, WordPad

CLASS 2





- What does a PC stand for ?
(A) Private Computer (B) Public Computer
(C) Personal Computer (D) Pencil Computer

- Which of the following is a storage device in a computer ?
(A)  (B) 
(C)  (D) 

- Which of the following is a processing unit of a computer ?
(A) Keyboard (B) Mouse
(C) Monitor (D) CPU

- ALU stands for:
(A) Arithmetic Local Unit
(B) Arithmetic Logic Unit
(C) Arrangement of Logic Unit.
(D) Arithmetic Lengthy Unit

- Which one of the following keys cannot work independently ?
(A) Delete key (B) Space bar key
(C) Shift key (D) Enter key

- To use numeric keys, which of the following keys must be on ?
(A)  (B) 
(C)  (D) 

- The menu bar contains:
(A) File (B) Edit
(C) Format (D) All of these

- In notepad, menu bar is located:
(A) above the Title bar
(B) below the Title bar
(C) at the bottom of the notepad window
(D) Both A and B

- On a computer monitor, a small arrow that moves as you move the mouse is known as _____.
(A) Pointer (B) Icon
(C) Screen (D) None of these

- What is the extension of a WordPad file ?
(A) .txt (B) .rtf
(C) .doc (D) .ppt

SPACE FOR ROUGH WORK

ANSWERS

(1) C (2) C (3) D (4) B (5) C (6) C (7) D (8) B (9) A (10) C

SYLLABUS OF COMPUTER / IT OLYMPIAD

Computer Science : Introduction to Hardware and Software, Introduction to Windows 10, MS-Paint, MS-Word 2016, WordPad, Internet, Notepad

CLASS
3

1. Which of the following is not an application software ?
(A) Windows (B) MS-Excel
(C) MS-Word (D) VLC player

2. What is the function of a folder ?
(A) To save files (B) To delete file
(C) To move files (D) All of these

3. The computer parts which cannot be seen or touched are called:
(A) Hardwares (B) Softwares
(C) Input devices (D) Output devices

4. The long horizontal bar located at the bottom of the screen is called:
(A) desktop (B) taskbar
(C) recycle bin (D) None of these

5. The icons may represent a:
(A) file (B) folder
(C) software (D) All of these

6. Which bar is usually located below the Title Bar that provides categorized options ?
(A) Menu bar (B) Status bar
(C) Toolbar (D) Scroll bar

7. Which file starts MS word?
(A) word.ext (B) winword.exe
(C) msword.exe (D) wordpad.exe

8. When was WWW invented ?
(A) 1969 (B) 1979
(C) 1985 (D) 1989

9. Who invented WWW ?
(A) Charles Babbage (B) Bill gates
(C) Tim Bernes-Lee (D) Steve Jobs

10. What is the shortcut key for copy ?
(A) Ctrl+C (B) Ctrl+V
(C) Ctrl+X (D) Ctrl+P

SPACE FOR ROUGH WORK

ANSWERS

(1) A (2) A (3) B (4) B (5) D (6) A (7) B (8) C (9) C (10) A

SYLLABUS OF COMPUTER / IT OLYMPIAD

Computer Science : History of computer, Input and Output Devices, Memory and Storage Devices, Windows 10, Software Classification, MS Word 2016, MS-PowerPoint 2016, Internet

CLASS

4

1. Which of the following was also called Pascal's calculator ?
(A) Abacus (B) Napier's bone
(C) Pascaline (D) Jacquard Loom

2. The abacus is a/an _____ device.
(A) automatic (B) mechanical
(C) electromechanical (D) manual

3. Which of the following options will be visible when you right-click on your desktop ?
(A) New (B) Refresh
(C) Personalize (D) All of these

4. Which of the following group of Home tab allow you to change the font size ?
(A) Clipboard (B) Font
(C) Paragraph (D) Editing

5. Which of the following is not an alignment in word ?
(A) Left (B) Right
(C) Justify (D) Top

6. DRAM stands for:
(A) Disk Random Access Memory
(B) Digital Random Access Memory
(C) Direct Random Access Memory
(D) Dynamic Random Access Memory

7. Which of the following is/are the examples of operating system ?
(A) Android (B) iOS
(C) Linux (D) All of these

8. Power Point slides can have ?
(A) Title, Text, Graphs (B) Clipart, Animation
(C) Shapes, Notes (D) All of these

9. Which of the following is the company that provide access to the internet ?
(A) Modem (B) Telephone line
(C) ISP (D) All of these

10. Which of the following shortcut key is used to open task view in windows 10 ?
(A) Windows Key + L
(B) Windows Key + R
(C) Windows Key + tab
(D) Windows Key + X

SPACE FOR ROUGH WORK

ANSWERS

(1) C (2) D (3) D (4) B (5) D (6) D (7) D (8) D (9) C (10) C

SYLLABUS OF COMPUTER / IT OLYMPIAD

Computer Science : Generation of computer, Windows, MS-Word 2016, MS-Excel 2016, PowerPoint 2016, Internet and E-mail

CLASS

5

1. GUI stands for ?
(A) Geographical User Interface.
(B) Graphical User Interface.
(C) Graphical Unit Interface.
(D) Graphics Unit Interface.

2. Drop cap is present in which of the following tab ?
(A) Home (B) Insert
(C) Review (D) View

3. Which tab is used to insert a column in a table ?
(A) Design (B) Layout
(C) Home (D) None of these

4. What is the shortcut key for saving a worksheet ?
(A) Ctrl+V (B) Ctrl+P
(C) Ctrl+C (D) Ctrl+S

5. Single point in an image is called:
(A) Element (B) Pixel
(C) Grid (D) All of these

6. Which of the following is not a browser ?
(A) Microsoft Edge (B) G-mail
(C) Internet Explorer (D) Google Chrome

7. Maximum how many columns can you insert in a word document ?
(A) 40 (B) 63
(C) 50 (D) 55

8. Which type of file can be attached to an e-mail ?
(A) Worksheet (B) Document
(C) Presentation (D) All of these

9. FORTRAN stands for:
(A) For Translation (B) Format Transformation
(C) Fork Transformation (D) Formula Translation

10. Which of the following is an inbuilt feature in Windows ?
(A) Quick heal (B) Avast
(C) Firewall (D) All of these

SPACE FOR ROUGH WORK

ANSWERS

(1) B (2) B (3) B (4) D (5) B (6) B (7) B (8) D (9) D (10) C

SYLLABUS OF COMPUTER / IT OLYMPIAD

Computer Science : Computer Languages, Small Basic, Algorithm and flow chart,
Mail Merge/MS-Word, MS-Excel/MS-PowerPoint, Internet

CLASS

6

1. _____ generation computers use assembly language.
(A) First generation (B) Third generation
(C) Second generation (D) Fourth generation

2. Assembler is a:
(A) Translator (B) Interpreter
(C) Compiler (D) Exchange

3. Which category allows you to add and remove printers and other hardware, change system sounds, update drivers and more ?
(A) Network and Sharing (B) Hardware and Sound
(C) Clock, Language, and (D) Program
 Region

4. _____ is a feature of MS-Word that enables users to develop personalised letters, greeting cards and other communication with names and addresses stored in a database.
(A) Mail Merge (B) Conditional Formatting
(C) Auto Filter Question (D) All of these

5. What is the name of the column heading for each category in a data source ?
(A) Data field (B) Field
(C) Field name (D) Record

6. A programming language also provides operators that enables you to perform_____ tasks.
(A) computing and manipulating values of variables
(B) comparing values of different variables of same data types
(C) testing multiple condition
(D) All of these

7. A compiler is used to convert _____to object code which can be executed.
(A) high-level language (B) low-level language
(C) assembly language (D) natural language

8. Part of algorithm which is repeated for fixed number of times is classified as:
(A) Iteration (B) Selection
(C) Sequence (D) Reverse action

9. Which of the following is a page orientation in excel ?
(A) Portrait (B) Landscape
(C) Both A and B (D) None of these

10. _____ is a procedure or step-by-step process for solving a problem.
(A) Algorithm (B) Flowchart
(C) Pseudocode (D) All of these

SPACE FOR ROUGH WORK

ANSWERS

(1) C (2) B (3) B (4) A (5) C (6) D (7) A (8) A (9) C (10) A

SYLLABUS OF COMPUTER / IT OLYMPIAD

Computer Science : Memory And Storage, HTML, CSS, Computer Network,
Data Representation and Number System

CLASS
7

1. Which of the following manages memory access for programs in the RAM ?
(A) User interface (B) Memory management
(C) Kernel (D) File management system

2. The OS is a master control program that handles all activities in the computer. Which of the following OS is/are multi-user OS ?
(A) Windows Vista (B) Windows 7
(C) UNIX (D) All of these

3. The digital system usually operates on _____ system.
(A) binary (B) decimal
(C) octal (D) hexadecimal

4. The number 1001012 is equivalent to octal:
(A) 54 (B) 45
(C) 37 (D) 25

5. Which of the following is also called one-way selection statement ?
(A) If statement (B) If-else statement
(C) If-else-if statement (D) For loop

6. Which of the following chart is used to compare value among one or more series of data points ?
(A) Column chart (B) Line chart
(C) Pie chart (D) Bar chart

7. Which of the following types of data can be sorted in excel ?
(A) Textual (B) Numeric
(C) Alphanumeric (D) All of these

8. Computer virus can spread from one computer to another through____
(A) Infected portable disk (B) The Internet
(C) Pirated software (D) All of these

9. Antivirus software is a type of softwares that are designed and developed to protect computers from:
(A) Viruses (B) Computer worms
(C) Spyware (D) All of these

10. Which is a circuit board equipped with microchips ?
(A) Workstation (B) PCB
(C) Switch (D) Router

SPACE FOR ROUGH WORK

ANSWERS

(1) C (2) D (3) A (4) B (5) A (6) A (7) D (8) D (9) D (10) B

SYLLABUS OF COMPUTER / IT OLYMPIAD

Computer Science : Memory And Storage, HTML, CSS, Computer Network,
Data Representation and Number System

CLASS

8

1. A program in HTML can be rendered and read by:
(A) Web browser (B) Server
(C) Interpreter (D) None of these

2. Which of the following tags defines a variable in html ?
(A) <variable> (B) <var>
(C) <varbl> (D) All of these

3. Which of the following property is used to set the opacity of an image ?
(A) border (B) height
(C) width (D) moz-opacity

4. A _____ WAN can be developed by using any other transmission facility.
(A) Multi-peer (B) Peer-to-peer
(C) Two-tiered (D) Three-tiered

5. In which of the following fonts all the letters have the same fixed width ?
(A) Monospace (B) Fantasy
(C) Serif (D) Sans-serif

6. Which storage device is mounted on reels ?
(A) Hard disk (B) Floppy disk
(C) CDRom (D) Magnetic Tapes

7. Which one of the following tags is used to define reference for the resources in HTML ?
(A) <base> (B) <link>
(C) <meta> (D) <style>

8. The mobile app Pokemon Go was introduced in:
(A) 2014 (B) 2015
(C) 2016 (D) 2018

9. 1 Nibble equals to:
(A) 1 bits (B) 2 bits
(C) 4 bits (D) 8 bits

10. Which of the following memory has faster access time ?
(A) Primary memory (B) Secondary memory
(C) Both have same access time (D) None of these

SPACE FOR ROUGH WORK

ANSWERS

(1) A (2) B (3) D (4) B (5) A (6) D (7) B (8) C (9) C (10) A

SYLLABUS OF COMPUTER / IT OLYMPIAD

Information Technology : Communication Skills, Self-Management Skills, Computer Fundament, Introduction to IT-Ites industry, Data Entry and Keyboard Skills, Digital Documentation, Electronic Spreadsheet, Digital Presentation, Cyber Safety

CLASS

9

- Which of the following keys do you use to select part of a text ?
(A) Enter (B) Arrow key
(C) Shift + Arrow key (D) Shift key
- Which of the following property is used to make a font italic or oblique ?
(A) Font-family (B) Font-style
(C) Font-variant (D) Font-weight
- The domain extension .org refers to which of the of following type of websites ?
(A) Commercial (B) Government
(C) Non-profit organization (D) Educational
- Which HTML tag would be used to display power in expression $(A+B)^2$?
(A) <SUP> (B) <SUB>
(C) (D) <P>
- The output of an AND gate with three inputs, A, B and C, is HIGH when _____.
(A) A = 1, B = 1, C = 0 (B) A = 0, B = 0, C = 0
(C) A = 1, B = 1, C = 1 (D) A = 1, B = 0, C = 1
- Which of the following database objects produces the final result to present ?
(A) Forms (B) Reports
(C) Queries (D) Tables
- What is the binary value of $(14)_{10}$?
(A) 1011 (B) 1100
(C) 1110 (D) 1111
- Which of the following cables can transmit data at high speed ?
(A) Coaxial Cable (B) Fiber Optic Cable
(C) Twisted pair Cable (D) UTP Cable
- Which of the below is the correct way to set a background image ?
(A) `body {background - image : url (paper.gif);}`
(B) `body {background - image : url ('paper.gif');`
(C) `body {background - image : url ('paper.gif')}`
(D) `body {background - image : url ('paper.gif');`
- Which one of the following converts the entire source program into machine language before executing it ?
(A) Object program (B) Assembler
(C) Compiler (D) Translator

SPACE FOR ROUGH WORK

ANSWERS

(1) C (2) B (3) C (4) A (5) C (6) B (7) C (8) B (9) D (10) C

SYLLABUS OF COMPUTER / IT OLYMPIAD

Information Technology : Communication Skills, Self-Management Skills, Digital Documentation, Electronic Spreadsheet, Database Management System, Web Applications and Security, Cyber Safety

CLASS
10

1. What does a protocol defines in networking ?
(A) How data is communicated.
(B) What data is communicated.
(C) When data is communicated.
(D) All of these

2. The octal equivalent of the decimal number $(417)_{10}$ is:
(A) $(641)_8$ (B) $(619)_8$
(C) $(640)_8$ (D) $(598)_8$

3. Every table in RDBMS should have a ____ key.
(A) null (B) foreign
(C) candidate (D) primary

4. Which of these specifies the direction in which the browser should present the text ?
(A) `<HTML dir = rtl>` (B) `<HTML lang = en>`
(C) `<link>` (D) `<script>`

5. The output of an AND gate with three inputs A, B and C is high when _____.
(A) A = 1, B = 1, C = 1 (B) A = 1, B = 0, C = 1
(C) A = 0, B = 0, C = 0 (D) A = 1, B = 1, C = 0

6. Which one of the following is not a type of list supported by HTML ?
(A) Unordered list (B) Ordered list
(C) Definition list (D) Numbered list

7. What is used to specify the space between the boundary and content in a cell ?
(A) Spacing (B) Cellpadding
(C) Cellspacing (D) Align

8. What is the correct HTML for making a text area ?
(A) `<input type="textbox" />`
(B) `<input type="textarea" />`
(C) `<textarea>`
(D) Both (A) and (B)

9. Which of the following attribute is used to control the speed of the moving text in `<Marquee>` Tag ?
(A) Speed (B) Speed-rate
(C) Rate (D) Scrollamount

10. In PowerPoint, how to select one hyperlink after another during a slide presentation ?
(A) F1 (B) Shift
(C) Tab (D) Ctrl + D

SPACE FOR ROUGH WORK

ANSWERS

(1) D (2) A (3) D (4) A (5) A (6) D (7) B (8) C (9) D (10) C

SYLLABUS OF COMPUTER / IT OLYMPIAD

Computer Fundamental : Computer Fundamental

Programming Language : Programming Language (C++ /Java /Python /Multimedia
and Web Technology)

CLASS

11

- Which of the following is known as the language made up of binary-coded instructions ?
(A) High level (B) BASIC
(C) C (D) Machine
- Which of the following computers are lower than mainframe computers in terms of speed and storage capacity ?
(A) Mainframes (B) Hybrid
(C) Mini (D) Super
- Which of the following is a type of technique in which dumb terminals are connected to a central computer system ?
(A) Time Sharing (B) Message passing
(C) Batch environment (D) User environment
- ICT stands for ?
(A) Interaction, Communication and Technology
(B) Information, Communication and Technology
(C) Interaction, Communication and Text
(D) Information, Communication and Text
- A type of VR environment in which subjects are visually isolated from the real environment.
(A) Immersive (B) Semi immersive
(C) Non immersive (D) Augmented
- Is Python code compiled or interpreted ?
(A) Python code is both compiled and interpreted
(B) Python code is neither compiled nor interpreted
(C) Python code is only compiled
(D) Python code is only interpreted
- Which of the following character is used to give single-line comments in Python ?
(A) // (B) #
(C) ! (D) /*
- Find the output of the following code.
int Integer = 24;
char String = 'I';
System.out.print(Integer);
System.out.print(String);
(A) Compile error (B) Throws exception
(C) I (D) 24 I

SPACE FOR ROUGH WORK

ANSWERS

(1) D (2) C (3) A (4) B (5) A (6) A (7) B (8) D

SYLLABUS OF COMPUTER / IT OLYMPIAD

Computer Fundamental : Computer Fundamental

Programming Language : Programming Language (C++ /Java /Python /Multimedia
and Web Technology)

CLASS
12

1. The 1's complement of 10 is:
(A) 10 (B) 11
(C) 110 (D) 01

2. _____ is a computer that has been designed so that it is as compact as possible.
(A) Supercomputer (B) Mini
(C) Mainframe (D) Microcomputer

3. Which header file do we use for the generation of random numbers ?
(A) <random> (B) <generator>
(C) <distribution> (D) <gen_dist>

4. Which of these mathematics libraries is used in C++ for vector manipulation ?
(A) blitz++ (B) stac++
(C) vec++ (D) cli+++

5. Out of these packages, which one contains an abstract keyword ?
(A) java.util (B) java.lang
(C) java.system (D) java.io

6. Out of these methods, which one can be used for converting all the characters present in a String into an Array of characters ?
(A) both getChars() & toCharArray()
(B) both charAt() & getChars()
(C) charAt()
(D) all of the mentioned

7. Identify the incorrect HTML tag among the following
(A) <input> (B) <select>
(C) <list> (D) <textarea>

8. Identify the empty or void element in HTML.
(A) <sup> (B)

(C) <p> (D) <abbr>

SPACE FOR ROUGH WORK

ANSWERS

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| (1) D | (2) D | (3) A | (4) A | (5) B | (6) A | (7) C | (8) B |
|-------|-------|-------|-------|-------|-------|-------|-------|