

Question 1: Which of the following source code is highly protected and is only available to trusted employees?

- A) Open-source
- B) Closed-source
- C) Machine code
- D) Both (a) and (c)
- E) None of these

Question 2: Which of the following disk can store more than 25 GB of data with a very high speed, in less amount of time?

- A) Blu-ray disk
- B) Digital versatile disk
- C) Floppy disk
- D) Hard disk
- E) Other than those given in options

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Question 3: Which utility helps the user to arrange used and free space on the hard disk which in turn increases the processing speed of the disk?

- A) Encryption
- B) Scan disk
- C) Compression utilities
- D) Disk Defragmentation

E) Backup utility

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Question 4: Which of the following computer is used to solve problems involving quantum mechanical physics, weather forecasting, climate research as well as molecular modelling?

- A) Super computer
- B) Mainframe computer
- C) Micro computer
- D) Mini computer
- E) Tablet

Question 5: IBM notebooks, Pentium PC, PARAM 1000 are the examples of which generation of computer?

- A) Third generation
- B) Fifth generation
- C) Second generation
- D) Fourth generation
- E) First generation

Question 6: _____ is a style sheet language used for describing the look and formatting the document written in a markup language.

- A) Document object model
- B) Multimedia filters
- C) Cascading style sheets

- D) DHTML
- E) Extensible Stylesheet Language

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Question 7: Which is a tool designed for large organisations, where employees need to connect to a server from different locations to access key files and information?

- A) Enterprise software
- B) Virtual private network
- C) Content access software
- D) Simulation software
- E) Driver software

Question 8: Which hardware device is attached to our personal computer through SCSI port?

- A) Keyboard
- B) Scanner
- C) Printer
- D) Mouse
- E) Monitor

Question 9: A programming language used almost exclusively to manipulate the content on a web page is_____.

- A) JavaScript
- B) HTML

- C) JAVA
- D) C language
- E) Python

Question 10: Which is the type of ROM in which the chip can be erased & reprogrammed on the board easily byte by byte?

- A) EPROM
- B) PROM
- C) EEPROM
- D) Flash memory
- E) None of these

Question 11: Which of the following is the primary requirement to boot a computer system?

- A) Compiler
- B) Interpreter
- C) Assembler
- D) Operating System
- E) Other than those given in options

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Question 12: Which term is used to refer the visual movements when one slide changes to another in MS PowerPoint?

- A) Slide Transformation
- B) Slide Transition

- C) Slide Movement
- D) Slide Change
- E) Slide Master

Question 13: Which of the following feature of Excel provides the visual representation of data in the form of charts?

- A) Macros
- B) Sparkline
- C) Slicer
- D) Pivot Table
- E) Flash Fill

Question 14: Which of the following input device converts bitmap images of the characters to equivalent ASCII codes?

- A) MICR
- B) Scanner
- C) OCR
- D) OMR
- E) Bar code reader

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Question 15: Which layer of the OSI Model is responsible for the transmission and reception of unstructured raw data between a device and a physical transmission medium?

- A) Network layer

- B) Session layer
- C) Transport layer
- D) Data-Link layer
- E) Physical layer

Question 16: _____ is the process of finding and resolving defects or problems within a computer program that prevent correct operation of computer software.

- A) Debugging
- B) Hacking
- C) Proofing
- D) Authenticating
- E) Bugging

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Question 17: _____ is the on-demand delivery of computer power, database, storage, applications, and other IT resources through internet.

- A) Distributed computing
- B) Cloud computing
- C) Parallel computing
- D) Virtual computing
- E) Cluster computing

Question 18: A new version of IP - IPv6 using how many bits for the IP address which was standardized in the year 1998?

- A) 128
- B) 32
- C) 64
- D) 192
- E) 255

Question 19: Which among the following is a hardware component without which a computer cannot be connected over a network?

- A) Gateway
- B) Bridge
- C) Network Interface card
- D) Router
- E) Repeater

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Question 20: Which of the following shortcut key can be used to add a hyperlink to your worksheet in Excel?

- A) Ctrl + H
- B) Ctrl + C
- C) Ctrl + X
- D) Ctrl + Shift + K
- E) Ctrl + K

प्रश्न

1: निम्नलिखितमेंसेकौनसास्रोतकोडअत्यधिकसंरक्षितहैऔरकेवलविश्वसनीयकर्मचारियोंकेलिएउपलब्धहै?

- A) Open-source
- B) Closed-source
- C) Machine code
- D) Both (a) and (c)
- E) None of these

प्रश्न 2: निम्नमेंसेकौनसीडिस्ककमसमयमें 25 GB सेअधिकडेटाकोबहुततेजगतिसेस्टोरकरसकतीहै?

- A) Blu-ray disk
- B) Digital versatile disk
- C) Floppy disk
- D) Hard disk
- E) Other than those given in options

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3: कौनसीउपयोगिताउपयोगकर्ताकोहार्डडिस्कपरप्रयुक्तऔरखालीस्थानकीव्यवस्थाकरनेमेंमददकरतीहैजोबदलेमेंडिस्ककीप्रसंस्करणगतिकोबढ़ातीहै?

- A) Encryption
- B) Scan disk

- C) Compression utilities
- D) Disk Defragmentation
- E) Backup utility

प्रश्न 4: निम्नलिखितमेंसेकौनसेकंप्यूटरकाउपयोगक्वांटमयांत्रिकभौतिकी, मौसमपूर्वानुमान, जलवायुअनुसंधानकेसाथ- साथआणविकमॉडलिंगसेसंबंधितसमस्याओंकोहलकरनेकेलिएकियाजाताहै?

- A) Super computer
- B) Mainframe computer
- C) Micro computer
- D) Mini computer
- E) Tablet

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प्रश्न 5: IBM notebooks, Pentium PC, PARAM 1000 कंप्यूटरकीकौनसीपीढ़ीकेउदाहरणहैं?

- A) Third generation
- B) Fifth generation
- C) Second generation
- D) Fourth generation
- E) First generation

प्रश्न 6: _____

एकस्टाइलशीटभाषाहैजिसकाउपयोगमार्कअपभाषामेंलिखेगएदस्तावेज़केआकार औरस्वरूपणकावर्णनकरनेकेलिएकियाजाताहै।

- A) Document object model
- B) Multimedia filters
- C) Cascading style sheets
- D) DHTML
- E) Extensible Stylesheet Language

प्रश्न 7: कौनसाटूलबड़ेसंगठनोंकेलिएडिज़ाइनकियागयाहै, जहांकर्मचारियोंकोमुख्यफाइलोंऔरसूचनाओंतकपहुंचनेकेलिएविभिन्नस्थानोंकेसर्वरसेजुड़नेकीआवश्यकताहोतीहै?

- A) Enterprise software
- B) Virtual private network
- C) Content access software
- D) Simulation software
- E) Driver software

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प्रश्न 8: कौनसाहार्डवेयरडिवाइस SCSI

पोर्टकेमाध्यमसेहमारेपर्सनलकंप्यूटरसेजुड़ाहोताहै?

- A) Keyboard
- B) Scanner

- C) Printer
- D) Mouse
- E) Monitor

प्रश्न 9: एक web page

पर सामग्री में हेरफेर करने के लिए लगभग अनन्य रूप से उपयोग की जाने वाली प्रोग्रामिंग भाषा _____ है।

- A) JavaScript
- B) HTML
- C) JAVA
- D) C language
- E) Python

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प्रश्न 10: ROM का कौन सा प्रकार है जिसमें chip को मिटाया जा सकता है और byte द्वारा आसानी से बोर्ड पर reprogrammed किया जा सकता है?

- A) EPROM
- B) PROM
- C) EEPROM
- D) Flash memory
- E) None of these

प्रश्न 11: एक computer system

को बूट करने के लिए निम्नलिखित में से कौन सी प्राथमिक आवश्यकता है?

- A) Compiler
- B) Interpreter
- C) Assembler
- D) Operating System
- E) Other than those given in options

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प्रश्न 12: जब MS PowerPoint

में एक स्लाइड दूसरी स्लाइड में बदलती है तो दृश्यगतिको संदर्भित करने के लिए कौन से शब्द का उपयोग किया जाता है?

- A) Slide Transformation
- B) Slide Transition
- C) Slide Movement
- D) Slide Change
- E) Slide Master

प्रश्न 13: Excel

की निम्नलिखित में से कौन सी विशेषता चार्ट के रूप में डेटा का दृश्य प्रतिनिधित्व प्रदान करती है?

- A) Macros

- B) Sparkline
- C) Slicer
- D) Pivot Table
- E) Flash Fill

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प्रश्न 14: निम्नलिखित में से कौन सा इनपुट डिवाइस वर्णों की बिट मैपछवियों को समान ASCII कोड में कवर करता है?

- A) MICR
- B) Scanner
- C) OCR
- D) OMR
- E) Bar code reader

प्रश्न 15: OSI Model

की कौन सी परत एक उपकरण और एक भौतिक संचरण माध्यम के बीच असंरचित कच्चे डेटा के संचरण और स्वागत के लिए जिम्मेदार है?

- A) Network layer
- B) Session layer
- C) Transport layer
- D) Data-Link layer
- E) Physical layer

प्रश्न 16: _____

कंप्यूटर प्रोग्राम के भीतर दोषों या समस्याओं को खोजने और हल करने की प्रक्रिया है जो कंप्यूटर सॉफ्टवेयर के सही संचालन को रोकती है।

- A) Debugging
- B) Hacking
- C) Proofing
- D) Authenticating
- E) Bugging

प्रश्न 17: _____ इंटरनेट के माध्यम से कंप्यूटर पावर, डेटाबेस, स्टोरेज, एप्लिकेशन और अन्य आईटी संसाधनों की ऑन-डिमांड डिलीवरी है।

- A) Distributed computing
- B) Cloud computing
- C) Parallel computing
- D) Virtual computing
- E) Cluster computing

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प्रश्न 18: IP का एक नया संस्करण - IPv6 IP address

के लिए कितने बिट्स का उपयोग करता है जिसे वर्ष 1998 में मानकीकृत किया गया था?

- A) 128
- B) 32

- C) 64
- D) 192
- E) 255

प्रश्न

19: निम्नलिखितमेंसेकौनएकहार्डवेयरघटकहैजिसकेबिनाकंप्यूटरकोनेटवर्कसेनहींजोड़ाजासकताहै?

- A) Gateway
- B) Bridge
- C) Network Interface card
- D) Router
- E) Repeater

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प्रश्न 20: Excel मेंआपकीवर्कशीटमें hyperlink जोड़नेकेलिएनिम्नमेंसेकौनसो shortcut key काउपयोगकियाजासकताहै?

- A) Ctrl + H
- B) Ctrl + C
- C) Ctrl + X
- D) Ctrl + Shift + K
- E) Ctrl + K

ANSWER KEYS and SOLUTIONS:

1) - B)	2) - A)	3) - D)	4) - A)	5) - B)	6) - C)
---------	---------	---------	---------	---------	---------

7) - B)	8) - B)	9) - A)	10) - C)	11) - D)	12) - B)
13) - B)	14) - C)	15) - E)	16) - A)	17) - B)	18) - A)
19) - C)	20) - E)				

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Solution 1: B)

- Closed source software refers to the computer software which source code is closed.
- This means public is not given access to the source code.
- In closed source software the source code is protected.
- The only individual or organization who has created the software can only change it.
- Some examples of closed source software are **Skype, Google earth, Java, Adobe Flash** etc.
- On the other hand, in Open source software source is open means the general public can access and use.
- The source code of open source software is public which can be modified by other users and organizations.
- Some examples of open source software are **Firefox, OpenOffice, Gimp, Android** etc.

Solution 2: A)

- A **Blu-ray disk** (BD) is a high-capacity optical disk medium developed for recording, rewriting and playing back high definition video.
- It can store large amounts of data and was designed to replace the DVD.
- The disk can store more than 25 GB of data with a very high speed, in less amount of time.
- Blu-ray was jointly developed by a group of personal computer and consumer electronics companies called the Blu-ray Disc Association.

- Blu-ray disks support higher resolutions and more advanced video and audio formats compared to DVDs.
- Blu-ray discs can hold more information than other optical media because of the blue lasers the drives use.

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Solution 3: D)

- **Disk Defragmentation** is a process of organizing the contents of the disk in a way that all portions of the files are stored in a connecting manner.
- It helps to reduce data access time and also consolidates the free space on the disk.
- The process of defragmentation moves the data blocks on the hard drive around to bring all the parts of a file together.
- Defragmentation reduces file system fragmentation, increasing the efficiency of data retrieval and thereby improving the overall performance of the computer.
- It cleans the storage and provides additional storage capacity at the same time.

Solution 4: A)

- A **supercomputer** is a computer with a high level of performance as compared to a general-purpose computer.
- They are primarily are designed to be used in enterprises and organizations that require massive computing power.
- These computers are used to solve problems involving quantum mechanical physics, weather forecasting, climate research and molecular modelling.
- Mainframe computer are a type of computer that are primarily used by large organizations for mission-critical applications requiring high volumes of data processing.

- A microcomputer is a computer with a central processing unit (CPU) as a microprocessor and it has been designed for individual use.
- Minicomputers are mainly used as small or mid-range servers operating business and scientific applications.

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Solution 5: B)

- The **fifth-generation** computer system was begun by Japan's Ministry of International Trade and Industry in 1982.
- In this generation, the VLSI technology has advanced and become ULSI (Ultra Large-Scale Integration) technology.
- This generation is based on parallel processing hardware and AI (Artificial Intelligence) software.
- All the high-level languages like C and C++, Java, .Net etc., are used in this generation.
- The primary objective to propose this system is to achieve progress in artificial intelligence and include this for further advancement.
- IBM notebooks, Pentium PC, PARAM 1000 are the examples of fifth generation of computer.

Solution 6: C)

- **Cascading Style Sheets (CSS)** is a stylesheet language used to describe the presentation of a document written in HTML or XML.
- It is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.
- CSS describes how elements should be rendered on screen, on paper, in speech, or on other media.
- It is designed to enable the separation of presentation and content, including layout, color, and fonts.

- CSS is easy to learn and understand but it provides powerful control over the presentation of an HTML document.

Solution 7: B)

- VPN stands for “**virtual private network**”. It is a service that protects your internet connection and privacy online.
- It enables users to send and receive data across shared or public networks.
- It is a tool designed for large organisations, where employees need to connect to a server from different locations to access key files and information.
- VPNs can be used to hide a browsing history of the user, Internet Protocol (IP) address and geographical location, web activity or devices being used.
- VPN tunneling creates a point-to-point connection that cannot be accessed by unauthorized users.

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Solution 8: B)

- A **small computer systems interface** (SCSI) is a standard interface for connecting peripheral devices to a personal computer.
- In other words, it is a set of standards for physically connecting and transferring data between computers and peripheral devices.
- It can connect up to 16 peripheral devices using a single bus including one host adapter.
- SCSI is used to increase performance, deliver faster data transfer transmission and provide larger expansion.
- It is used to connect devices such as CD-ROM drives, scanners, DVD drives and CD writers.

Solution 9: A)

- **JavaScript** is among the most powerful and flexible programming languages of the web.
- It is one of the core technologies of web development and can be used on both the front-end and the back-end.
- It is a scripting language that enables to create dynamically updating content, control multimedia, animate images etc.
- JavaScript is a lightweight, interpreted programming language which is designed for creating network-centric applications.
- JavaScript is very easy to implement because it is integrated with HTML.
- Thus, it is one of the core technologies of the World Wide Web alongside HTML and CSS.

Solution 10: C)

- EEPROM stands for **Electrically Erasable Programmable Read-Only Memory**.
- It is a non-volatile ROM chip which is used for storing a small amount of data in computers or some other electronic devices.
- It is the type of ROM in which the chip can be erased & reprogrammed on the board easily byte by byte.
- EEPROM, with the help of an electric field, is erasable and reprogrammable, but with a shorter lifetime.
- It used as a replacement for PROM (Programmable Read-Only Memory) and EPROM (Erasable Programmable Read-Only Memory).
- EEPROM was developed by **George Perlegos** in 1978 at Intel.

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Solution 11: D)

- Booting is the process of starting a computer which can be initiated by hardware such as a button press, or by a software command.

- It is a start-up sequence that starts the operating system of a computer when it is turned on.
- A boot sequence is the initial set of operations that the computer performs when it is switched on.
- Both hard and soft booting can be initiated by hardware such as a button press or by software command.
- Booting is complete when the operative runtime system, typically operating system and some applications, is attained.
- Thus, **Operating System** is the primary requirement to boot a computer system.

Solution 12: B)

A **slide transition** is the visual effect that occurs when you move from one slide to the next during a presentation. The following steps are to be used to apply Slide transition in Power Point presentation.

Step: #1 Select the slide you want to add a transition to.

Step: #2 Select the Transitions tab and choose a transition.

Step: #3 Select Effect Options to choose the direction and nature of the transition.

Step: #4 Select Preview to see what the transition looks like.

Step: #5 To remove a transition, select Transitions > None.

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Solution 13: B)

- A **sparkline** is a tiny chart in a worksheet cell that provides a visual representation of data.
- It shows trends in a series of values, such as seasonal increases or decreases, economic cycles, or to highlight maximum and minimum values.

- In order to create a sparkline chart, following steps are to be followed.

Step: #1 Select the cell where you want the chart to appear.

Step: #2 On the Insert tab, click the Line, Column, or Win/Loss button. The Create Sparklines dialog box appears.

Step: #3 Drag in a row or column of your worksheet to select the cells with the data you want to analyze.

Step: #4 Click OK in the Create Sparklines dialog box.

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Solution 14: C)

- **Optical Character Recognition** is a technology that enables to convert different types of documents, such as scanned paper documents, PDF files or images captured by a digital camera into editable and searchable data.
- It is commonly used to recognize text in scanned documents and images.
- In OCR, scanner is equipped with character recognition software which converts bitmap images of characters to equivalent ASCII codes.
- OCR software processes a digital image by locating and recognizing characters, such as letters, numbers, and symbols.
- OCR is a field of research in pattern recognition, artificial intelligence and computer vision.

Solution 15: E)

- The **physical layer** is the first and lowest layer of the Open System Interconnection Model (OSI Model.)
- This layer manages the reception and transmission of the unstructured raw bit stream over a physical medium.

- The physical layer is aimed at consolidating the hardware requirements of a network to enable the successful transmission of data.
- It provides an electrical, mechanical, and procedural interface to the transmission medium.
- This layer is responsible for the transmission and reception of unstructured raw data between a device and a physical transmission medium.
- It converts the digital bits into electrical, radio, or optical signals.

Solution 16: A)

- **Debugging** is the routine process of locating and removing computer program bugs, errors or abnormalities.
- It is methodically handled by software programmers through debugging tools.
- Debugging checks, detects and corrects errors to allow proper program operation, according to set specifications.
- To prevent incorrect operation of a software or system, debugging is used to find and resolve bugs or defects.
- In the debugging process, complete software programs are regularly compiled and executed to identify and rectify issues.

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Solution 17: B)

- **Cloud computing** is the delivery of different services through the Internet.
- These resources include tools and applications like data storage, servers, databases, networking, and software.
- It is the on-demand delivery of compute power, database, storage, applications, and other IT resources through a cloud services platform via Internet.
- It is a popular option for people and businesses.

- It has various advantages including cost savings, increase in productivity, speed and efficiency, performance, and security.
- Cloud-based storage makes it possible to save files to a remote database and retrieve them on demand.

Solution 18: A)

- An Internet Protocol address is a numerical label assigned to each device connected to a computer network that uses the Internet Protocol for communication.
- An IP address serves two main functions: host or network interface identification and location addressing.
- Internet Protocol version 4 defines an IP address as a 32-bit number.
- However, because of the growth of the Internet and the depletion of available IPv4 addresses, a new version of IP (IPv6), using **128 bits** for the IP address, was standardized in 1998.
- IPv6 deployment has been ongoing since the mid-2000s.

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Solution 19: C)

- A network interface controller is a computer hardware component that connects a computer to a computer network.
- It is a circuit board installed in a computer that provides a dedicated network connection to the computer.
- It is also called network interface controller, network adapter or LAN adapter.
- Each card represents a device and can prepare, transmit and control the flow of data on the network.
- It allows communications between computers connected via **local area network** (LAN) as well as communications over large-scale network through Internet Protocol (IP).

- Thus, **Network Interface card** is a hardware component without which a computer cannot be connected over a network.

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Solution 20: E)

- Hyperlink function creates a shortcut that jumps to another location in the current workbook.
- It opens a document stored on a network server, an intranet, or the Internet
- In an Excel worksheet, select the cell where you want to insert the hyperlink to make it the active cell.
- Type a word to act as anchor text and press Enter.
- Select the cell again make it the active cell.
- Press the Ctrl and K keys on the keyboard to open the Insert Hyperlink dialog box.
- Thus, Ctrl + K can be used to insert hyperlink in your worksheet.

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PRACTICE MOCK