Computer Operator (BS-15) — 2026 · Solved Past Paper

Body: Punjab Public Service Commission (PPSC) · **Post:** Computer Operator (BS-15) · **Year:** 2026 · **Questions:** 100 in the original paper — **99 solved and verified**, 1 excluded as defective (Q93) · **Price:** Free

> **How to use this paper:** each question shows the stem, the four options, and the correct answer. Click “Why each option?” under a question to see all four options explained — one question teaches four topics. General Knowledge answers are as of the 2026 sitting.

Source note: GK360 reproduction 'Computer Operator Past Paper 2026' (100 MCQs, February 2026 per the GK360 page; no sitting date or case number on the page). Filed by year 2026 with paper_date null. 1 DEFECTIVE-excluded (Q93: GK360 keys A '=SUM(A1:A10)' as the invalid formula, but that is a valid formula; B and D lack '=' so two options are invalid — no single correct answer). Sibling slug computer-operator-2026-paper-2 is a re-serve (variant) of this paper. Dedup 1/34 @0.90/0.55 vs any built paper. Decisions by the assistant under the owner's 8 Nov 2026 delegation.

Question 1 Computer Science

Android OS was primarily developed by:

- A. Apple
- B. Samsung
- C. Microsoft
- D. Google ✓ **Correct answer**

A. Apple makes iOS and the iPhone, but it did not develop Android.

builds phones that run Android, but it did not develop the operating system.

C. Microsoft makes Windows, not Android.

D. Google developed Android (it bought Android Inc. in 2005) and maintains it.

Question 2 Computer Science

Which of the following is a necessary condition for a deadlock to occur?

- A. Mutual exclusion
- B. No preemption
- C. Hold and wait
- D. Circular wait ✓ **Correct answer**

A. Mutual exclusion is one of the four Coffman conditions, and it IS necessary for deadlock, so it is also a defensible answer.

B. No preemption is likewise a necessary Coffman condition.

C. Hold and wait is likewise a necessary Coffman condition.

D. Circular wait is the fourth necessary Coffman condition and the one the printed key intends; all four conditions are necessary, so this is a PICK-ONE (see verification summary).

Question 3 Computer Science

Where is virtual memory stored?

- A. Cache
- B. Hard disk ✓ **Correct answer**
- C. RAM
- D. ROM

A. Cache is small, fast memory inside or near the CPU, not where virtual-memory pages are stored.

memory pages are stored on the hard disk (the paging/swap area) and loaded into RAM when needed.

C. RAM is physical memory; virtual memory is the technique that extends it using disk space.

D. ROM holds firmware and is read-only, not virtual-memory storage.

Question 4 Computer Science

Who proposed the stored-program architecture?

- A. Alan Turing
- B. Charles Babbage
- C. John von Neumann ✓ **Correct answer**
- D. Blaise Pascal

A. Turing worked on computability and the Turing machine, not the stored-program architecture.

B. Babbage designed the Analytical Engine, which came before stored-program computers.

C. Von Neumann proposed the stored-program architecture, where instructions and data share the same memory.

D. Pascal built an early mechanical calculator, not the stored-program design.

Question 5 Computer Science

Which of the following is NOT a component of the classic Von Neumann architecture?

- A. Memory unit
- B. ALU
- C. CPU
- D. I/O interface ✓ **Correct answer**

ory unit IS a core part of the classic von Neumann architecture.

B. The arithmetic logic unit IS a core part of the classic architecture.

C. The CPU (control unit plus ALU) IS the processing heart of the classic architecture.

D. The printed key treats the I/O interface as outside the classic core units (memory, ALU, control unit); the wording is loose, since input/output units do appear in the classic diagram, so this is a PICK-ONE (see verification summary).

Question 6 Computer Science

Which memory type is the fastest in the hierarchy?

- A. SRAM
- B. Cache
- C. DRAM
- D. Registers ✓ **Correct answer**

A. SRAM is fast static RAM used in caches, but it is still slower than registers.

B. Cache memory is very fast, but it sits outside the CPU and is slower than registers.

C. DRAM is main memory and is much slower than cache or registers.

D. Registers sit inside the CPU itself, so they are the fastest memory in the hierarchy.

Question 7 Computer Science

The Internet is which type of network?

- A. LAN
- B. MAN
- C. WAN ✓ **Correct answer**
- D. PAN

A. A LAN covers a small area such as one building, not the whole world.

vers a city, not the whole world.

C. The Internet spans countries and continents, which makes it a wide area network.

D. A PAN covers only a person's immediate surroundings, such as a phone and its earphones.

Question 8 Computer Science

What is the standard capacity of a CD-ROM?

- A. 1.44 MB
- B. 700 MB ✓ **Correct answer**
- C. 4.7 GB
- D. 8.5 GB

A. 1.44 MB is the capacity of a standard floppy disk, not a CD-ROM.

B. A standard CD-ROM holds about 700 MB of data.

C. 4.7 GB is the capacity of a single-layer DVD.

D. 8.5 GB is the capacity of a dual-layer DVD.

Question 9 Computer Science

What is the file extension for a PowerPoint presentation?

- A. docx
- B. pdf
- C. xlsx
- D. pptx ✓ **Correct answer**

A. .docx is the extension for a Word document.

B. .pdf is the Portable Document Format, not a PowerPoint file.

e extension for an Excel workbook.

D. .pptx is the extension for a PowerPoint presentation.

Question 10 Computer Science

Which shortcut key is used to repeat the last action in Excel?

- A. F2
- B. F3
- C. F4 ✓ **Correct answer**
- D. F5

A. F2 edits the active cell in Excel; it does not repeat an action.

B. F3 pastes a defined name; it does not repeat an action.

C. F4 repeats the last action in Excel.

D. F5 opens the Go To dialog; it does not repeat an action.

Question 11 Computer Science

Which shortcut key is used to undo the last action?

- A. Ctrl+Z ✓ **Correct answer**
- B. Ctrl+A
- C. Ctrl+C
- D. Ctrl+V

A. Ctrl+Z undoes the last action.

B. Ctrl+A selects all, it does not undo.

C. Ctrl+C copies, it does not undo.

D. Ctrl+V pastes, it does not undo.

12 Computer Science

In which view are headers and footers visible in MS Word?

- A. Draft view
- B. Web layout
- C. Print layout ✓ **Correct answer**
- D. Outline

A. Draft view hides headers and footers to show plain text.

B. Web layout shows the document as a web page, without page headers and footers.

C. Print layout shows the page exactly as it will print, including headers and footers.

D. Outline view shows the heading structure, not headers and footers.

Question 13 Computer Science

From which menu can you insert a header or footer in MS Word?

- A. Home menu
- B. Insert menu ✓ **Correct answer**
- C. Design menu
- D. View menu

A. The Home tab holds everyday formatting, not header and footer commands.

B. The Insert tab contains the Header and Footer commands.

C. The Design tab holds themes and document formatting.

D. The View tab changes how the document is displayed.

Question 14 Computer Science

Which shortcut key starts a slideshow from the current slide?

- B. Ctrl+F5
- C. Shift+F5 ✓ **Correct answer**
- D. Alt+F5

A. F5 starts the slideshow from the beginning, not from the current slide.

B. Ctrl+F5 is not the shortcut for starting from the current slide.

C. Shift+F5 starts the slideshow from the current slide.

D. Alt+F5 opens Presenter View, not a slideshow from the current slide.

Question 15 Computer Science

What does GUI stand for?

- A. General user interface
- B. Graphical unified interface
- C. Graphical user interface ✓ **Correct answer**
- D. General unified interface

A. The first word is Graphical, not General.

B. The third word is User, not Unified.

C. GUI stands for Graphical User Interface.

D. Both General and Unified are wrong words here.

Question 16 Computer Science

What does ASCII stand for?

- A. Advanced standard code
- B. American standard code for information interchange ✓ **Correct answer**
- C. American system code

A. The expansion does not begin with Advanced.

B. ASCII stands for American Standard Code for Information Interchange.

C. The word is Standard, not System, and the rest of the expansion is missing.

D. Wrong, because B is the correct expansion.

Question 17 Computer Science

Which of these is an open-source operating system?

- A. Windows
- B. Mac OS
- C. iOS
- D. Linux ✓ **Correct answer**

A. Windows is proprietary Microsoft software, not open source.

B. macOS is proprietary Apple software, not open source.

C. iOS is proprietary Apple software, not open source.

D. Linux is open-source software, freely available under the GPL.

Question 18 Computer Science

What is the shortcut key to insert a new slide in PowerPoint?

- A. Ctrl+N
- B. Ctrl+S
- C. Ctrl+M ✓ **Correct answer**
- D. Ctrl+I

A. Ctrl+N creates a new presentation, not a new slide.

es the presentation.

C. Ctrl+M inserts a new slide in PowerPoint.

D. Ctrl+I applies italic formatting.

Question 19 Computer Science

Git is used as a:

- A. Centralized version control
- B. File sharing tool
- C. Distributed version control system (DVCS) ✓ **Correct answer**
- D. Project management tool

A. Centralized version control (like SVN) keeps one central repository; Git does not work that way.

B. Git tracks changes in code, it is not a general file-sharing tool.

C. Git is a distributed version control system: every user holds a full copy of the repository.

D. Git manages code versions, not project tasks and schedules.

Question 20 Computer Science

Which function in Excel is used to transpose rows and columns?

- A. Pivot
- B. Filter
- C. Sort
- D. Transpose ✓ **Correct answer**

A. A PivotTable summarises data; it does not swap rows and columns.

B. Filtering hides rows that do not match a condition; it does not transpose.

orders rows, it does not swap rows and columns.

D. Transpose (in Paste Special) swaps rows and columns.

Question 21 Computer Science

Which software is used for file compression?

- A. VLC
- B. Adobe Reader
- C. WinZip ✓ **Correct answer**
- D. MS Word

A. VLC is a media player, not a compression tool.

B. Adobe Reader opens PDF files, it does not compress files.

C. WinZip compresses files into archives such as .zip.

D. MS Word is a word processor, not a compression tool.

Question 22 Computer Science

CPU speed is measured in:

- A. Bytes
- B. Kilobytes
- C. Megabytes
- D. Gigahertz ✓ **Correct answer**

A. Bytes measure storage size, not processor speed.

B. Kilobytes measure storage size, not processor speed.

C. Megabytes measure storage size, not processor speed.

D. CPU speed is measured in gigahertz, the number of clock cycles per second.

23 Computer Science

What was the first search engine?

- A. Yahoo
- B. AltaVista
- C. Google
- D. Archie ✓ **Correct answer**

A. Yahoo came later (1994) and began as a directory, not the first search engine.

B. AltaVista (1995) came after the first search engine.

C. Google (1998) came much later.

D. Archie (1990) is regarded as the first search engine, indexing FTP archives.

Question 24 Computer Science

What is the name of the first computer virus?

- A. Melissa
- B. Trojan
- C. Creeper ✓ **Correct answer**
- D. Brain

A. Melissa (1999) was a later macro virus, not the first.

B. A Trojan is a type of malware, not the name of the first virus.

C. Creeper (1971) is regarded as the first computer virus, spreading on ARPANET.

D. Brain (1986) was the first PC virus, but Creeper came fifteen years earlier.

Question 25 Computer Science

A computer cannot boot without:

- B. Loader
- C. Operating system ✓ **Correct answer**
- D. Assembler

A. A compiler translates code; a computer can boot without one.

B. A loader loads programs, but booting depends on the operating system being loaded.

C. A computer cannot boot into a usable state without an operating system.

D. An assembler translates assembly language; it is not needed to boot.

Question 26 Computer Science

What is the correct path to select all items in Microsoft Word?

- A. View > Select All
- B. File > Select All
- C. Insert > Select All
- D. Home > Editing > Select > Select All ✓ **Correct answer**

A. The View tab does not hold the Select All command.

B. The File tab holds file operations, not Select All.

C. The Insert tab adds objects, it does not select all.

D. Select All is reached from the Home tab, Editing group, Select, Select All.

Question 27 Computer Science

Who were the co-founders of Microsoft?

- A. Steve Jobs
- B. Bill Gates & Paul Allen ✓ **Correct answer**
- C. Larry Page

A. Steve Jobs co-founded Apple, not Microsoft.

B. Bill Gates and Paul Allen founded Microsoft in 1975.

C. Larry Page co-founded Google, not Microsoft.

D. Elon Musk founded companies such as SpaceX and Tesla, not Microsoft.

Question 28 Computer Science

What command starts the PowerPoint application?

- A. Excel
- B. Outlook
- C. Winword
- D. powerpnt.exe ✓ **Correct answer**

A. Excel is the spreadsheet program, not the PowerPoint command.

B. Outlook is the email program, not the PowerPoint command.

C. Winword is the Word program file, not PowerPoint.

D. powerpnt.exe is the executable that starts PowerPoint.

Question 29 Computer Science

What is the primary purpose of a compiler?

- A. Execute programs
- B. Manage memory
- C. Translate code into machine code ✓ **Correct answer**
- D. Debug errors

A. Executing programs is the operating system's job, not the compiler's.

management belongs to the operating system, not the compiler.

C. A compiler translates high-level source code into machine code.

D. A debugger finds errors; a compiler only reports them while translating.

Question 30 Computer Science

What is the second step in macro creation in MS Office?

- A. Save macro
- B. Name macro ✓ **Correct answer**
- C. Record macro
- D. Assign shortcut

A. Saving comes after the macro is created, not as the second step.

B. The printed key makes naming the macro the second step (after opening the Record Macro dialog); sources differ on the step order, so this is a PICK-ONE (see verification summary).

C. Recording is the step that captures the actions, not the second step as keyed.

D. Assigning a shortcut is an optional later step, not the second step.

Question 31 Computer Science

Which tab is used to apply a theme in PowerPoint?

- A. Insert tab
- B. Animations tab
- C. Design tab ✓ **Correct answer**
- D. Home tab

A. The Insert tab adds pictures, tables and shapes, not themes.

B. The Animations tab adds motion effects, not themes.

n tab applies themes to a presentation.

D. The Home tab holds slides and basic formatting, not themes.

Question 32 Computer Science

What language is used for macros in MS Word?

- A. Python
- B. Java
- C. C++
- D. Visual Basic ✓ **Correct answer**

A. Python is a general-purpose language, not the macro language of MS Word.

B. Java is a general-purpose language, not Word's macro language.

C. C++ is a systems language, not Word's macro language.

D. Word macros are written in Visual Basic for Applications (VBA).

Question 33 Computer Science

What is the function of the IF statement in Excel?

- A. Format data
- B. Logical test and return value ✓ **Correct answer**
- C. Sum values
- D. Range selection

A. Formatting changes appearance; IF does not format.

B. IF performs a logical test and returns one value if true and another if false.

C. Summing is the SUM function's job, not IF's.

D. IF does not select a range.

34 Computer Science

Which network protocol is used for sending emails?

- A. FTP
- B. SSH
- C. POP3
- D. SMTP ✓ **Correct answer**

A. FTP transfers files; it does not send email.

B. SSH gives secure remote shell access; it does not send email.

C. POP3 receives (downloads) email; it does not send it.

D. SMTP (Simple Mail Transfer Protocol) sends email between hosts.

Question 35 Computer Science

Which device is used to connect different networks?

- A. Router ✓ **Correct answer**
- B. Switch
- C. Topology
- D. Primary network

A. A router connects different networks and forwards packets between them.

B. A switch connects devices within one network.

C. Topology is the layout of a network, not a device.

D. This is not a device that connects networks.

Question 36 Computer Science

Which of these is NOT a SQL keyword?

- B. Delete
- C. Update
- D. Submit ✓ **Correct answer**

A. INSERT is a standard SQL keyword for adding rows.

B. DELETE is a standard SQL keyword for removing rows.

C. UPDATE is a standard SQL keyword for changing rows.

D. SUBMIT is not a SQL keyword.

Question 37 Computer Science

What is the default paragraph alignment in MS Word?

- A. Right
- B. Justify
- C. Center
- D. Left ✓ **Correct answer**

A. Right alignment is chosen deliberately; it is not the default.

B. Justify spreads text evenly; it is not the default.

C. Center alignment is chosen deliberately; it is not the default.

D. Word aligns paragraphs to the left by default.

Question 38 Computer Science

Which key is the shortcut for starting a slideshow in PowerPoint?

- A. F1
- B. F3
- C. F5 ✓ **Correct answer**

A. F1 opens Help, it does not start a slideshow.

B. F3 is not the slideshow shortcut.

C. F5 starts the slideshow.

D. F7 runs the spell checker, it does not start a slideshow.

Question 39 Computer Science

What is the basic unit in an Excel worksheet?

- A. Column
- B. Row
- C. Cell ✓ **Correct answer**
- D. Range

A. A column is a vertical line of cells, not the basic unit.

B. A row is a horizontal line of cells, not the basic unit.

C. The cell, the intersection of a row and a column, is the basic unit of a worksheet.

D. A range is a group of cells, not the basic unit.

Question 40 Computer Science

Which key is used to edit a selected cell in Excel?

- A. F3
- B. Edit
- C. F1
- D. F2 ✓ **Correct answer**

A. F3 pastes a defined name; it does not edit a cell.

a function key.

C. F1 opens Help; it does not edit a cell.

D. F2 edits the selected cell.

Question 41 Computer Science

Which shortcut moves to the next sheet in Excel?

- A. Ctrl+End
- B. Ctrl+Home
- C. Ctrl+Page Down ✓ **Correct answer**
- D. Ctrl+Page Up

A. Ctrl+End moves to the last used cell, not the next sheet.

B. Ctrl+Home moves to the first cell (A1), not the next sheet.

C. Ctrl+Page Down moves to the next worksheet.

D. Ctrl+Page Up moves to the previous worksheet.

Question 42 Computer Science

Which tab allows you to insert a table in Excel?

- A. Home
- B. Data
- C. Insert ✓ **Correct answer**
- D. Formulas

A. The Home tab holds formatting, not table insertion.

B. The Data tab holds sorting, filtering and analysis tools.

C. The Insert tab contains the Table command for Excel.

ulas tab holds functions, not table insertion.

Question 43 Computer Science

IPv6 addresses are based on:

- A. 48 bits
- B. 128 bits ✓ **Correct answer**
- C. 36 bits
- D. None of these

A. 48 bits is the size of a MAC address, not an IPv6 address.

B. IPv6 addresses are 128 bits long.

C. 36 bits is not the IPv6 address size.

D. Wrong, because 128 bits is correct.

Question 44 Computer Science

What is a Primary Key?

- A. Unique identifier
- B. Cannot repeat
- C. Auto number example
- D. All of these ✓ **Correct answer**

A. A primary key does uniquely identify each row.

B. A primary key value cannot repeat in the table.

C. An auto-number field is a common example of a primary key.

D. All three statements about a primary key are true.

45 Computer Science

What is a Foreign Key?

- A. Column linking a primary key ✓ **Correct answer**
- B. Encryption key
- C. Data type tool
- D. Status define

A. A foreign key is a column whose values refer to the primary key of another table.

B. A foreign key has nothing to do with encryption.

C. A foreign key is not a data type tool.

D. A foreign key does not define a status.

Question 46 Computer Science

Which language is commonly used for AI development?

- A. Java
- B. Python ✓ **Correct answer**
- C. Lisp
- D. Ruby

A. Java is used in AI, but it is not the most common AI language.

B. Python, with its libraries such as TensorFlow and PyTorch, is the most commonly used language for AI development.

C. Lisp was historic in AI, but it is not the common choice today.

D. Ruby is mainly a web-development language, not an AI language.

47 Computer Science

What is the default font size in MS Word?

- A. 11 ✓ **Correct answer**
- B. 12
- C. 13
- D. 10

A. The default font size in MS Word is 11 points (Calibri).

B. 12 points was the default in older Word versions, not the current default.

C. 13 is not the default font size.

D. 10 is not the default font size.

Question 48 Computer Science

What is the smallest unit in a database?

- A. Table
- B. Record
- C. Field ✓ **Correct answer**
- D. Database

A. A table is a collection of records, not the smallest unit.

B. A record (a row) is made up of fields, so it is not the smallest unit.

C. A field (one value in a record) is the smallest unit of data in a database.

D. A database is the whole collection, the largest unit, not the smallest.

Question 49 Computer Science

Binary numbers consist of:

- B. 1 and 5
- C. 1 and 3
- D. 0 and 1 ✓ **Correct answer**

A. Binary uses only two digits, and 2 is not one of them.

B. 5 is not a binary digit.

C. 3 is not a binary digit.

D. Binary numbers consist only of the digits 0 and 1.

Question 50 Computer Science

How are files primarily recognized by the operating system?

- A. Size
- B. Name
- C. File extension ✓ **Correct answer**
- D. Location

A. File size does not tell the operating system what kind of file it is.

B. The name alone does not identify the file type.

C. The operating system recognises a file primarily by its extension, such as .docx or .xlsx.

D. Where a file is stored does not identify its type.

Question 51 Computer Science

Google Docs is categorized as a:

- A. Spreadsheet
- B. Word processor ✓ **Correct answer**
- C. Database

A. Google Docs is not a spreadsheet; that is Google Sheets.

B. Google Docs is a word processor, for writing and editing documents.

C. Google Docs is not a database.

D. Google Docs is not a presentation tool; that is Google Slides.

Question 52 Computer Science

Which of these is a linear sequential software development model?

- A. Spiral
- B. Agile
- C. Iterative
- D. Waterfall ✓ **Correct answer**

A. The Spiral model is iterative and risk-driven, not linear sequential.

B. Agile is iterative and incremental, not linear sequential.

C. The Iterative model repeats cycles, so it is not linear sequential.

D. The Waterfall model proceeds in one linear sequence of phases, each completed before the next begins.

Question 53 Computer Science

Scrum is a framework of which methodology?

- A. DevOps
- B. Agile ✓ **Correct answer**
- C. RAD
- D. Waterfall

not a DevOps framework.

B. Scrum is a framework of the Agile methodology, organising work into sprints.

C. RAD (Rapid Application Development) is a different methodology.

D. Scrum is the opposite of Waterfall: it is iterative, not linear.

Question 54 Computer Science

What is the process of finding and correcting errors in code called?

- A. Testing
- B. Compiling
- C. Debugging ✓ **Correct answer**
- D. Executing

A. Testing checks whether software works; finding and fixing errors is a narrower task.

B. Compiling translates code; it does not correct errors.

C. Debugging is the process of finding and correcting errors in code.

D. Executing simply runs the program.

Question 55 Computer Science

What are satellite repeaters called?

- A. Detector
- B. Modulator
- C. Transponders ✓ **Correct answer**
- D. Stations

A. A detector senses signals; it is not the satellite repeater.

B. A modulator changes a signal's form; it is not the satellite repeater.

repeaters, which receive a signal and retransmit it, are called transponders.

D. Ground stations are on Earth, not the repeater in the satellite.

Question 56 Computer Science

A stack data structure works on which principle?

- A. FIFO
- B. FILO
- C. LIFO ✓ **Correct answer**
- D. LILO

A. FIFO (first in, first out) is the queue principle, not the stack principle.

B. FILO (first in, last out) describes the same behaviour as LIFO, and it is a defensible description of a stack, but the printed key uses the standard term.

C. A stack works on LIFO (last in, first out): the last item pushed is the first popped. This is the printed key, retained as the intended answer; see verification summary.

D. LILO is not a standard data-structure principle.

Question 57 Computer Science

A distributed ledger is best described as:

- A. Database
- B. Cloud storage
- C. Data warehouse
- D. Blockchain ✓ **Correct answer**

A. A distributed ledger is a kind of database, but the term that describes it best is more specific.

B. Cloud storage is remote file storage, not a distributed ledger.

...rehouse stores analytical data centrally; it is not a distributed ledger.

D. A blockchain is the best-known distributed ledger: a shared, decentralised record replicated across many nodes.

Question 58 Computer Science

Which part of an OS controls the hardware?

- A. Shell
- B. Kernel ✓ **Correct answer**
- C. Drivers
- D. File system

A. The shell is the user interface to the OS, not the part that controls hardware.

B. The kernel is the core of the operating system and controls the hardware directly.

C. Drivers let the OS talk to specific hardware, but the kernel is the part that controls it.

D. The file system organises files on disk; it does not control hardware.

Question 59 Computer Science

In Unix, which command is used to create a new process?

- A. Exec
- B. Fork ✓ **Correct answer**
- C. Wait
- D. Kill

A. Exec replaces the current process image with a new program; it does not create a new process.

B. In Unix, fork() creates a new process by duplicating the calling process.

C. Wait makes a parent pause until a child finishes; it creates nothing.

nates a process, it does not create one.

Question 60 Computer Science

What is the primary function of RAID?

- A. Improve graphics
- B. Improve speed
- C. Improve storage performance ✓ **Correct answer**
- D. Improve network

A. RAID has nothing to do with graphics.

B. RAID can improve speed, but the standard statement of its purpose is storage performance.

C. RAID (Redundant Array of Independent Disks) improves storage performance (and/or redundancy) by combining disks; this is the printed key.

D. RAID has nothing to do with networks.

Question 61 Computer Science

What does the VLOOKUP function do in Excel?

- A. Format data
- B. Perform horizontal lookup
- C. Perform vertical lookup and return value ✓ **Correct answer**
- D. Perform calculation

A. VLOOKUP does not format data.

B. Horizontal lookup is HLOOKUP's job, not VLOOKUP's.

C. VLOOKUP searches vertically down the first column of a range and returns a value from the same row.

looks up a value, it is not a general calculation function.

Question 62 Computer Science

Which Excel function finds the highest value in a range?

- A. MIN()
- B. MAX() ✓ **Correct answer**
- C. COUNT()
- D. AVERAGE()

A. MIN() returns the smallest value, not the highest.

B. MAX() returns the highest value in a range.

C. COUNT() counts numbers, it does not find the highest value.

D. AVERAGE() returns the mean, not the highest value.

Question 63 Computer Science

Which function is used for total sum in Excel?

- A. AVERAGE()
- B. COUNT()
- C. MIN()
- D. SUM() ✓ **Correct answer**

A. AVERAGE() returns the mean, not the total.

B. COUNT() counts cells, it does not total them.

C. MIN() returns the smallest value, not the total.

D. SUM() adds up all the values in a range.

64 Computer Science

An Excel workbook is a collection of:

- A. Workbook
- B. Worksheet ✓ **Correct answer**
- C. Chart
- D. Record

A. A workbook is the file itself, not what it is made of.

B. An Excel workbook is a collection of worksheets (sheets).

C. A chart is an object inside a worksheet, not what a workbook is made of.

D. A record is a database row, not part of a workbook's structure.

Question 65 Computer Science

What does the ALU perform?

- A. Storage
- B. Arithmetic and logical operations ✓ **Correct answer**
- C. Control operations
- D. Input/output

A. Storage is done by memory, not the ALU.

B. The ALU (Arithmetic Logic Unit) performs arithmetic (add, subtract) and logical (AND, OR) operations.

C. Control operations belong to the control unit, not the ALU.

D. Input/output is handled by I/O units, not the ALU.

66 Computer Science

When does a deadlock occur?

- A. Memory insufficient
- B. CPU overloaded
- C. Process terminated
- D. Processes wait indefinitely ✓ **Correct answer**

A. Low memory alone does not cause deadlock.

B. A busy CPU is not a deadlock.

C. A terminated process frees its resources; it cannot deadlock.

D. Deadlock occurs when processes wait indefinitely for resources held by each other.

Question 67 Computer Science

Which is a common backup option in Windows 10?

- A. USB drive
- B. Cloud storage
- C. Network drive
- D. All of these ✓ **Correct answer**

A. A USB drive is a valid backup destination in Windows 10.

B. Cloud storage (such as OneDrive) is a valid backup destination.

C. A network drive is a valid backup destination.

D. USB drives, cloud storage and network drives are all common Windows 10 backup options.

68 Computer Science

What are checkpoints used for?

- A. Security
- B. Recovery process ✓ **Correct answer**
- C. Performance
- D. Memory

A. Checkpoints are not a security mechanism.

B. Checkpoints save the system state so work can be recovered after a failure.

C. Checkpoints are not a performance tool.

D. Checkpoints are not a memory mechanism.

Question 69 Computer Science

What is an external database often referred to as?

- A. DBMS package
- B. Excel database
- C. External server database ✓ **Correct answer**
- D. Word file

A. An external database is not simply called a DBMS package.

B. An Excel file is not what is meant by an external database.

C. The printed key calls a database held outside the local system an external server database; the stem is loosely worded, so this is a PICK-ONE (see verification summary).

D. A Word file is a document, not a database.

70 Computer Science

What is a table in a relational database also called?

- A. Attribute
- B. Relation ✓ **Correct answer**
- C. Tuple
- D. Domain

A. An attribute is a column of a table, not the table itself.

B. In a relational database, a table is also called a relation.

C. A tuple is a row of a table, not the table itself.

D. A domain is the set of allowed values for an attribute, not the table.

Question 71 Computer Science

Which of these is NOT a valid C++ data type?

- A. long double
- B. wchar_t
- C. long long
- D. using float ✓ **Correct answer**

A. long double is a valid C++ data type.

B. wchar_t is a valid C++ data type for wide characters.

C. long long is a valid C++ integer type.

D. 'using float' is not a data type; using is a keyword for declarations, so this is not a valid type.

72 Computer Science

What number system does a computer use internally?

- A. Decimal
- B. Hexadecimal
- C. Binary ✓ **Correct answer**
- D. Octal

A. Decimal (base 10) is the system people use, not the one computers use internally.

B. Hexadecimal (base 16) is a shorthand for binary, not the internal system.

C. Computers work internally in binary (base 2), with only 0s and 1s.

D. Octal (base 8) is another shorthand, not the internal system.

Question 73 Computer Science

In which tab is the Table of Contents feature located in MS Word?

- A. Layout
- B. Home
- C. Design
- D. References ✓ **Correct answer**

A. The Layout tab holds page setup and paragraph spacing, not the Table of Contents.

B. The Home tab holds basic formatting, not the Table of Contents.

C. The Design tab holds themes, not the Table of Contents.

D. The References tab contains the Table of Contents feature.

Question 74 Computer Science

What tool creates artistic text effects in MS Word?

- B. WordArt ✓ **Correct answer**
- C. Drawing tools
- D. Picture tools

A. SmartArt makes diagrams, not decorative text effects.

B. WordArt creates artistic, decorative text effects in Word.

C. Drawing tools make shapes and lines, not WordArt text.

D. Picture tools edit images, not artistic text.

Question 75 Computer Science

Which Excel function returns the remainder of a division?

- A. ROUND()
- B. DIV()
- C. MOD() ✓ **Correct answer**
- D. QUOTIENT()

A. ROUND() rounds a number; it does not return a remainder.

B. DIV() is not a standard Excel function.

C. MOD() returns the remainder of a division.

D. QUOTIENT() returns the integer part of a division, not the remainder.

Question 76 Computer Science

What is Mac?

- A. Operating system ✓ **Correct answer**
- B. Multimedia
- C. Utility program

A. Mac (macOS) is an operating system made by Apple.

B. Multimedia is a type of content, not what Mac is.

C. A utility program performs maintenance tasks; Mac is a full operating system.

D. Windows is Microsoft's operating system, not Apple's Mac.

Question 77 Computer Science

An expression is a collection of:

- A. Constants only
- B. Variables only
- C. Functions only
- D. Operands and operators ✓ **Correct answer**

A. An expression can contain more than constants.

B. An expression can contain more than variables.

C. An expression can contain more than functions.

D. An expression is a collection of operands (values) combined by operators.

Question 78 Computer Science

Which architecture represents one instruction, one data stream?

- A. SIMD
- B. MISD
- C. SISD ✓ **Correct answer**
- D. MIMD

A. SIMD is one instruction applied to multiple data streams.

ultiple instructions on one data stream.

C. SISD is one instruction on one data stream, the classic single-processor model.

D. MIMD is multiple instructions on multiple data streams.

Question 79 Computer Science

Which of the following is NOT a valid Excel file format?

- A. .csv
- B. .xlsx
- C. .xls
- D. .pdf ✓ **Correct answer**

A. .csv is a valid Excel file format (comma-separated values).

B. .xlsx is the standard Excel workbook format.

C. .xls is the older Excel workbook format.

D. .pdf is a document format for viewing and printing; Excel can export to it, but it is not an Excel file format.

Question 80 Computer Science

What is the standard port for HTTP?

- A. 21
- B. 25
- C. 443
- D. 80 ✓ **Correct answer**

A. Port 21 is used by FTP, not HTTP.

B. Port 25 is used by SMTP, not HTTP.

s used by HTTPS, not plain HTTP.

D. Port 80 is the standard port for HTTP.

Question 81 Computer Science

What establishes the rules for communication between computers?

- A. Hardware
- B. Software
- C. Operating System
- D. Protocol ✓ **Correct answer**

A. Hardware is the physical equipment; it does not set communication rules.

B. Software is a general term; the specific rules are called something else.

C. The operating system manages the computer; it does not define communication rules.

D. A protocol is the set of rules that governs communication between computers.

Question 82 Computer Science

Which of the following is NOT a routing protocol?

- A. ICMP ✓ **Correct answer**
- B. RIP
- C. BGP
- D. OSPF

A. ICMP (Internet Control Message Protocol) sends error and control messages; it is not a routing protocol.

B. RIP is a routing protocol.

C. BGP is a routing protocol used between networks.

routing protocol used inside networks.

Question 83 Computer Science

Which service is used for remote login?

- A. FTP
- B. UDP
- C. RARP
- D. Telnet ✓ **Correct answer**

A. FTP transfers files; it is not for remote login.

B. UDP is a transport protocol, not a login service.

C. RARP resolves addresses; it is not a login service.

D. Telnet is the service used for remote login to another computer.

Question 84 Computer Science

Which of these is NOT an OSI model layer?

- A. Physical
- B. Transport
- C. Network
- D. Process ✓ **Correct answer**

A. The Physical layer is the first OSI layer.

B. The Transport layer is the fourth OSI layer.

C. The Network layer is the third OSI layer.

D. There is no Process layer in the OSI model (its seven layers are Physical, Data Link, Network, Transport, Session, Presentation, Application).

85 Computer Science

What type of cryptography uses public and private keys?

- A. Symmetric
- B. Hash
- C. Asymmetric ✓ **Correct answer**
- D. Quantum

A. Symmetric cryptography uses one shared key, not a key pair.

B. A hash produces a fixed digest; it does not use a public/private key pair.

C. Asymmetric cryptography uses a public key and a private key.

D. Quantum cryptography is a different field, not the name for public/private-key cryptography.

Question 86 Computer Science

Which network topology is most affected by a central node failure?

- A. Mesh
- B. Bus
- C. Star ✓ **Correct answer**
- D. Ring

A. In a mesh, nodes connect to several others, so no single node failure breaks the network.

B. A bus has no central node; all nodes share one cable.

C. In a star topology every node connects to the central hub, so the whole network fails if that node fails.

D. In a ring each node connects to two neighbours, with no single central node.

87 Computer Science

Which OSI layer is responsible for end-to-end communication?

- A. Network
- B. Session
- C. Transport ✓ **Correct answer**
- D. Data link

A. The Network layer handles routing between networks, not end-to-end delivery.

B. The Session layer manages sessions, not end-to-end communication.

C. The Transport layer provides reliable end-to-end communication between hosts.

D. The Data Link layer moves frames across one link, not end to end.

Question 88 Computer Science

What does MTU refer to?

- A. Minimum transmission unit
- B. Maximum throughput unit
- C. Maximum transfer unit ✓ **Correct answer**
- D. Maximum size of packet

A. MTU does not stand for Minimum Transmission Unit.

B. MTU does not stand for Maximum Throughput Unit.

C. The printed key reads MTU as Maximum Transfer Unit; strictly, MTU is Maximum Transmission Unit, which is not among the options, so the nearest option is retained as a PICK-ONE (see verification summary).

D. This describes what MTU limits, but it is not the expansion the key intends.

89 Computer Science

What does bandwidth refer to?

- A. Signal frequency
- B. Distance traveled
- C. Cable length
- D. Data transfer rate ✓ **Correct answer**

A. Frequency is a property of a signal, not bandwidth.

B. Bandwidth has nothing to do with distance.

C. Bandwidth has nothing to do with cable length.

D. Bandwidth is the data transfer rate, the amount of data that can pass in a given time.

Question 90 Computer Science

What is a graph where all nodes are connected to every other node called?

- A. Directed graph
- B. Sparse graph
- C. Weighted graph
- D. Complete graph ✓ **Correct answer**

A. A directed graph has one-way edges; that is not the definition asked for.

B. A sparse graph has few edges, the opposite of fully connected.

C. A weighted graph has numbers on its edges; that is not the definition asked for.

D. In a complete graph every node is connected to every other node.

Question 91 Computer Science

What causes signal strength decrease in fiber optic cables?

ection

- B. Refraction
- C. Dispersion
- D. Attenuation ✓ **Correct answer**

A. Reflection is light bouncing back; it is not the main cause of signal loss in fibre.

B. Refraction is light bending between materials; it is not the loss mechanism named here.

C. Dispersion spreads a pulse out, which is a different effect from loss of strength.

D. Attenuation is the decrease in signal strength as it travels through fibre.

Question 92 Computer Science

Which type of malware is known for self-replication?

- A. Virus
- B. Worm ✓ **Correct answer**
- C. Trojan
- D. Spyware

A. A virus needs a host file to spread; it does not self-replicate on its own.

B. A worm is malware that replicates itself and spreads across networks without a host file.

C. A Trojan disguises itself as useful software; it does not self-replicate.

D. Spyware secretly monitors a user; it does not self-replicate.

Question 93 Computer Science

Which of these is an invalid Excel formula?

- A. =SUM(A1:A10)
- B. AVERAGE(B1:B5)

M(sales)/(10-5)

- D. MAX(C1:C8)

No answer is given for this question, and none is taught. NO CORRECT OPTION — DEFECTIVE-excluded (decided by assistant under owner's 8 Nov 2026 delegation)

A. This IS a valid formula: it sums A1 to A10, so the printed key is wrong to call it invalid.

B. This lacks the leading = sign, so as typed it is not a formula at all; it is invalid as a formula.

C. This is a valid formula (a named range divided by 5).

D. This also lacks the leading = sign, so it too is invalid as a formula. Two options (B and D) are invalid, so there is no single correct answer: DEFECTIVE-excluded (see verification summary).

Question 94 Computer Science

In an OS, checkpoints are primarily used for:

- A. Security
- B. Recovery ✓ **Correct answer**
- C. Monitoring
- D. Authentication

A. Checkpoints are not a security mechanism.

B. In an operating system, checkpoints save state so the system can recover after a crash.

C. Checkpoints are not a monitoring tool.

D. Checkpoints have nothing to do with authentication.

95 Computer Science

A PowerPoint presentation is primarily made up of:

- A. Slides ✓ **Correct answer**
- B. Records
- C. Fields
- D. Cells

A. A PowerPoint presentation is made up of slides.

B. Records are database rows, not presentation parts.

C. Fields are database columns, not presentation parts.

D. Cells belong to spreadsheets, not presentations.

Question 96 Computer Science

RAID is used for:

- A. Speed processing
- B. Graphics
- C. Storage performance ✓ **Correct answer**
- D. Security

A. RAID does not speed up the processor.

B. RAID has nothing to do with graphics.

C. RAID (Redundant Array of Independent Disks) improves storage performance by combining disks.

D. RAID is not a security mechanism.

97 Computer Science

What is the wildcard pattern for a 5-letter word starting with 'S'?

- A. S???? ✓ **Correct answer**
- B. S?
- C. S#
- D. S*

A. S followed by four ? wildcards matches any five-letter word starting with S (each ? stands for exactly one character).

B. S? matches only a two-letter word starting with S.

C. S# matches S followed by one digit, not a five-letter word.

D. S* matches any word starting with S, of any length, not exactly five letters.

Question 98 Computer Science

An Ethernet card is also called a:

- A. WiFi card
- B. Bluetooth
- C. Fiber optics
- D. Network interface card ✓ **Correct answer**

A. A WiFi card is a wireless adapter, not the general name for an Ethernet card.

B. Bluetooth is a short-range wireless technology, not an Ethernet card.

C. Fibre optics is a cabling medium, not the card itself.

D. An Ethernet card is a network interface card (NIC).

99 Computer Science

Complete the analogy: Lock is to Door as Password is to:

- A. Gate
- B. Computer ✓ **Correct answer**
- C. Verify
- D. Wildcard

A. A gate is an entrance, but the analogy pairs a lock with the thing it protects, a door, and a password with the thing it protects.

B. The printed key pairs password with computer, as the thing a password protects, matching lock with door; the analogy is loose, so this is a PICK-ONE (see verification summary).

C. Verify is an action, not the thing a password protects.

D. A wildcard is a search character, unrelated to what a password protects.

Question 100 Computer Science

What is the purpose of indexing in a database?

- A. Reduce table size
- B. Speed up search ✓ **Correct answer**
- C. Both A and B
- D. None of these

A. Indexing does not shrink a table; it adds a lookup structure.

B. An index lets the database find rows quickly instead of scanning the whole table.

C. Wrong, because indexing does not reduce table size.

D. Wrong, because speeding up search is exactly what indexing does.

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