

Basics of Computers and Applications: 100 MCQs

- Target Exam: RRB Junior Engineer (RRB JE)
- Study Notes Prepared for: Entri App Users

Here is a high-yield set of 100 MCQs on Basics of Computers and Applications specifically curated for RRB JE CBT 2 (20 Marks section weightage).

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RRB JE CBT 2: Basics of Computers & Applications (100 High-Yield MCQs)

Target Exam: RRB Junior Engineer (CBT 2 Core Non-Technical)

Study Notes Prepared for: Entri App Users

Syllabus: Computer Architecture, Hardware & Software, I/O Devices, MS Office (Word, Excel, PowerPoint), Operating Systems, Networking & Internet, Web Browsers, Cyber Security & Malware.

Section 1: Computer Hardware, Architecture & Memory (25 MCQs)

Q1. Which part of the CPU is responsible for performing mathematical calculations and logical decisions?

- (a) Control Unit (CU)
- (b) Arithmetic Logic Unit (ALU)
- (c) Memory Buffer Register (MBR)
- (d) Memory Address Register (MAR)

Q2. Which of the following is considered non-volatile memory?

- (a) SRAM
- (b) DRAM

(c) ROM

(d) Cache Memory

Q3. The speed of a modern CPU is measured in:

(a) Megabytes (MB)

(b) Gigahertz (GHz)

(c) Megabits per second (Mbps)

(d) Nanoseconds (ns)

Q4. Cache memory acts as a high-speed buffer between:

(a) CPU and Hard Disk

(b) RAM and Hard Disk

(c) CPU and Primary Memory (RAM)

(d) ROM and Hard Disk

Q5. 1 Petabyte (PB) is equivalent to:

(a) 10^{24} Terabytes (TB)

(b) 10^{24} Gigabytes (GB)

(c) 10^{24} Exabytes (EB)

(d) 10^{24} Zettabytes (ZB)

Q6. Which bus is bidirectional in nature within a computer system?

(a) Address Bus

(b) Data Bus

(c) Control Bus

(d) Power Bus

Q7. Which register holds the address of the next instruction to be fetched and executed?

(a) Accumulator

(b) Instruction Register (IR)

(c) Program Counter (PC)

(d) Memory Data Register (MDR)

Q8. Flash memory (used in USB drives and SSDs) is an example of:

(a) EEPROM

(b) EPROM

(c) PROM

(d) SRAM

Q9. Which among the following key combinations triggers a hard reboot or opens Task Manager directly in Windows?

(a) **Ctrl + Alt + Del**

(b) **Alt + F4**

(c) **Shift + Esc**

(d) **Ctrl + Shift + Esc**

Q10. What type of device is an Optical Mark Reader (OMR)?

(a) Output Device

(b) Input Device

(c) Storage Device

(d) Processing Device

Q11. Which among the following is an Impact Printer?

(a) Inkjet Printer

(b) Laser Printer

(c) Dot Matrix Printer

(d) Thermal Printer

Q12. What is the main memory of a computer system?

- (a) Hard Disk Drive**
- (b) Read Only Memory**
- (c) Random Access Memory**
- (d) Compact Disc**

Q13. Solid State Drives (SSDs) are faster than traditional Hard Disk Drives (HDDs) because:

- (a) SSDs use magnetic platters**
- (b) SSDs have no moving mechanical parts**
- (c) SSDs use optical lasers to read data**
- (d) SSDs use tape heads**

Q14. How many bits are there in 1 Nibble?

- (a) 2 bits**
- (b) 4 bits**
- (c) 8 bits**
- (d) 16 bits**

Q15. Resolution of a computer monitor is measured in:

- (a) Dots Per Inch (DPI)**
- (b) Pixels**
- (c) Hertz (Hz)**
- (d) Pages Per Minute (PPM)**

Q16. Which port is commonly used to connect high-definition video and audio from a PC to a monitor or TV?

- (a) VGA Port**
- (b) PS/2 Port**
- (c) HDMI Port**

(d) Serial Port

Q17. Auxiliary memory is another name for:

(a) Primary Memory

(b) Secondary Storage Memory

(c) Cache Memory

(d) Registers

Q18. The process of starting or restarting a computer system is called:

(a) Execution

(b) Formatting

(c) Booting

(d) Paging

Q19. Cold booting occurs when:

(a) The computer is restarted using software options

(b) The computer is turned on from a completely powered-off state

(c) The computer goes into Sleep mode

(d) The system crashes

Q20. Which motherboard component preserves system time and BIOS settings when the PC is powered off?

(a) SMPS

(b) CMOS Battery

(c) Northbridge Chip

(d) Heat Sink

Q21. Which device converts digital signals to analog and vice-versa for transmission over telephone lines?

(a) Switch

- (b) Router**
- (c) Modem**
- (d) Gateway**

Q22. SCSI stands for:

- (a) Small Computer System Interface**
- (b) Standard Computer Software Interface**
- (c) Serial Control Storage Interface**
- (d) System Connection System Interface**

Q23. Which memory has the shortest access time?

- (a) Register Memory**
- (b) Cache Memory**
- (c) RAM**
- (d) SSD Memory**

Q24. In computer terminology, blue-ray disc is a type of:

- (a) Magnetic Storage**
- (b) Optical Storage**
- (c) Semiconductor Storage**
- (d) Flash Storage**

Q25. Which device is used to record hand-drawn sketches or signatures directly into a computer?

- (a) Trackball**
- (b) Digitizer / Graphic Tablet**
- (c) Barcode Reader**
- (d) Plotter**

Section 2: Operating Systems & System Software (15 MCQs)

Q26. Which of the following is NOT an Operating System?

- (a) Linux**
- (b) macOS**
- (c) Oracle**
- (d) MS-DOS**

Q27. The core of an operating system that manages system resources and CPU scheduling is called the:

- (a) Shell**
- (b) Kernel**
- (c) Device Driver**
- (d) Compiler**

Q28. Linux is an example of a(n):

- (a) Proprietary Operating System**
- (b) Open-Source Operating System**
- (c) Firmware**
- (d) Shareware**

Q29. A utility program that consolidates fragmented files on a hard drive to improve performance is called:

- (a) Disk Cleaner**
- (b) Disk Defragmenter**
- (c) File Compressor**
- (d) Antivirus**

Q30. Which operating system interface relies primarily on typing text commands?

- (a) GUI (Graphical User Interface)**
- (b) CLI (Command Line Interface)**

(c) Touch Interface

(d) Voice User Interface

Q31. Which allocation technique creates virtual memory in operating systems?

(a) Paging / Swapping

(b) Spooling

(c) Multithreading

(d) Formatting

Q32. In MS-DOS, which command is used to display all files and subdirectories in the current directory?

(a) **LIST**

(b) **DIR**

(c) **SHOW**

(d) **CHKDSK**

Q33. Which translator converts high-level programming language code into machine language line-by-line?

(a) Compiler

(b) Interpreter

(c) Assembler

(d) Linker

Q34. What is the term used for software pre-written into Read-Only Memory (ROM) during manufacturing?

(a) Shareware

(b) Middleware

(c) Firmware

(d) Freeware

Q35. Which system file holds the diagnostic programs that execute POST (Power-On Self-Test) during bootup?

- (a) BIOS**
- (b) Kernel**
- (c) System.dll**
- (d) Boot.ini**

Q36. Multiprogramming operating systems allow:

- (a) Multiple users to work on a PC at the same time**
- (b) Multiple programs to reside in main memory simultaneously for CPU execution**
- (c) Multiple CPUs on a single motherboard**
- (d) Execution of programs without an OS**

Q37. FAT and NTFS are examples of:

- (a) Operating Systems**
- (b) Network Protocols**
- (c) File Systems**
- (d) Database Engines**

Q38. In Windows, shortcut **Win + E is used to:**

- (a) Open Settings**
- (b) Lock the PC**
- (c) Open File Explorer**
- (d) Minimize all windows**

Q39. What is a "Device Driver"?

- (a) Hardware that controls power supply**
- (b) Software that enables OS to communicate with specific hardware devices**
- (c) An antivirus module**

(d) Software used for network browsing

Q40. Deadlock in operating systems occurs when:

(a) CPU speed drops to zero

(b) Processes are permanently blocked waiting for resources held by each other

(c) RAM is completely full

(d) System crashes due to overheating

Section 3: MS Office Suite - Word, Excel & PowerPoint (30 MCQs)

Q41. What is the default file extension of MS Word 2016 / 2019 / 2021 documents?

(a) .doc

(b) .docx

(c) .txt

(d) .pdf

Q42. In MS Word, which shortcut key is used to center-align selected text?

(a) Ctrl + C

(b) Ctrl + E

(c) Ctrl + J

(d) Ctrl + L

Q43. Which MS Word feature allows sending personalized letters or emails to multiple recipients at once?

(a) Macro

(b) Mail Merge

(c) Cross-reference

(d) Track Changes

Q44. What is the shortcut key to insert a Hyperlink in MS Word or MS Excel?

(a) Ctrl + H

- (b) **Ctrl + K**
- (c) **Ctrl + L**
- (d) **Ctrl + Shift + H**

Q45. In MS Excel, all formulas must begin with which symbol?

- (a) **@**
- (b) **#**
- (c) **=**
- (d) **\$**

Q46. In MS Excel, cell reference **A1 represents:**

- (a) **Relative Cell Reference**
- (b) **Absolute Cell Reference**
- (c) **Mixed Cell Reference**
- (d) **Circular Cell Reference**

Q47. What is the keyboard shortcut to create a new chart instantly in MS Excel from selected data?

- (a) **F2**
- (b) **F11**
- (c) **F7**
- (d) **F5**

Q48. Which MS Excel function is used to count cells containing numbers only within a range?

- (a) **COUNTA()**
- (b) **COUNT()**
- (c) **COUNTBLANK()**
- (d) **SUM()**

Q49. In MS Excel, what does the #VALUE! error mean?

- (a) A cell reference is invalid
- (b) The formula contains wrong type of operand/argument (e.g., text instead of number)
- (c) Division by zero
- (d) Column width is too small

Q50. Which feature in MS Excel allows users to fix rows/columns in place so they remain visible while scrolling?

- (a) Split Panes
- (b) Freeze Panes
- (c) Wrap Text
- (d) Merge & Center

Q51. What is the shortcut key to start a Slide Show from the beginning in MS PowerPoint?

- (a) F5
- (b) Shift + F5
- (c) F7
- (d) Esc

Q52. In MS PowerPoint, to start a slide show from the CURRENT slide, press:

- (a) F5
- (b) Shift + F5
- (c) Ctrl + F5
- (d) Alt + F5

Q53. Which view in MS PowerPoint displays all slides as thumbnails arranged in rows for easy reordering?

- (a) Normal View
- (b) Slide Master View

(c) Slide Sorter View

(d) Reading View

Q54. In MS PowerPoint, visual effects applied when moving from one slide to another are called:

(a) Custom Animations

(b) Slide Transitions

(c) Action Buttons

(d) SmartArt

Q55. In MS Word, pressing F7 opens which tool?

(a) Find and Replace

(b) Spelling & Grammar Check

(c) Thesaurus

(d) Word Count

Q56. What is the keyboard shortcut to duplicate a selected slide in MS PowerPoint?

(a) Ctrl + N

(b) Ctrl + M

(c) Ctrl + D

(d) Ctrl + Shift + D

Q57. In MS PowerPoint, shortcut Ctrl + M is used to:

(a) Create a new presentation

(b) Insert a new slide into the current presentation

(c) Duplicate current presentation

(d) Apply layout

Q58. In MS Word, superscripts (x^2), subscripts (x_2), and strikethrough are known as:

(a) Font Effects / Font Styles

(b) Text Alignments

(c) Paragraph Formats

(d) Margins

Q59. In MS Excel, what is the default alignment of text values in a cell?

(a) Right-aligned

(b) Center-aligned

(c) Left-aligned

(d) Justified

Q60. In MS Excel, what is the default alignment of numeric values in a cell?

(a) Right-aligned

(b) Left-aligned

(c) Center-aligned

(d) Top-aligned

Q61. What does VLOOKUP stand for in MS Excel?

(a) Variable Lookup

(b) Vertical Lookup

(c) Vector Lookup

(d) Visual Lookup

Q62. What shortcut key converts selected text to UPPERCASE, lowercase, or Title Case in MS Word?

(a) Ctrl + Shift + A

(b) Shift + F3

(c) Alt + F3

(d) Ctrl + F3

Q63. The master slide in PowerPoint controls:

- (a) Formatting and design layout of all slides in the presentation
- (b) Timing of custom animations
- (c) Speaker notes only
- (d) Transition speeds

Q64. In MS Word, Ctrl + Z and Ctrl + Y perform:

- (a) Cut and Paste
- (b) Undo and Redo
- (c) Find and Replace
- (d) Save and Save As

Q65. In MS Excel, what formula calculates the average of values in cells A1 through A10?

- (a) =AVG(A1:A10)
- (b) =AVERAGE(A1:A10)
- (c) =MEAN(A1:A10)
- (d) =SUM_AVG(A1:A10)

Q66. What is the intersection of a row and a column in MS Excel called?

- (a) Grid
- (b) Cell
- (c) Block
- (d) Table

Q67. In MS Word, what line spacing option sets space equal to 1.5 lines?

- (a) Ctrl + 1
- (b) Ctrl + 2
- (c) Ctrl + 5
- (d) Ctrl + 1.5

Q68. In MS PowerPoint, which file format saves a presentation directly as an auto-running Slide Show?

- (a) .pptx
- (b) .ppsx
- (c) .potx
- (d) .pdf

Q69. Which tool in MS Word allows copying formatting from one piece of text and applying it to another?

- (a) Format Painter
- (b) AutoCorrect
- (c) Styles Gallery
- (d) Copy Special

Q70. Maximum number of columns in an MS Excel 2016 worksheet is:

- (a) 1,048,576
- (b) 16,384 (XFD)
- (c) 256
- (d) 65,536

Section 4: Computer Networking, Internet & Web Technologies (15 MCQs)

Q71. Which network topology connects all nodes to a central device (Hub/Switch)?

- (a) Bus Topology
- (b) Star Topology
- (c) Ring Topology
- (d) Mesh Topology

Q72. In which topology does every node connect directly to every other node in the network?

- (a) Star Topology

- (b) Bus Topology
- (c) Mesh Topology
- (d) Tree Topology

Q73. What protocol is used to assign IP addresses dynamically to devices on a network?

- (a) DNS
- (b) DHCP
- (c) FTP
- (d) SMTP

Q74. Which protocol translates domain names (e.g., [\[www.google.com\]\(https://www.google.com\)](https://www.google.com)) into IP addresses?

- (a) HTTP
- (b) ARP
- (c) DNS
- (d) ICMP

Q75. How many layers are present in the OSI (Open Systems Interconnection) reference model?

- (a) 4 Layers
- (b) 5 Layers
- (c) 7 Layers
- (d) 6 Layers

Q76. Which OSI layer is responsible for routing data packets across different networks?

- (a) Data Link Layer
- (b) Network Layer
- (c) Transport Layer
- (d) Session Layer

Q77. What is the length of an IPv4 address?

- (a) 32 bits**
- (b) 64 bits**
- (c) 128 bits**
- (d) 16 bits**

Q78. What is the length of an IPv6 address?

- (a) 32 bits**
- (b) 64 bits**
- (c) 128 bits**
- (d) 256 bits**

Q79. Which protocol is primarily used for sending outgoing emails across the internet?

- (a) POP3**
- (b) IMAP**
- (c) SMTP**
- (d) FTP**

Q80. Which internet protocol ensures secure, encrypted web communication using SSL/TLS?

- (a) HTTP**
- (b) HTTPS**
- (c) FTP**
- (d) Telnet**

Q81. A MAC (Media Access Control) address is a physical address embedded in network interface cards (NICs). How long is a MAC address?

- (a) 32 bits**
- (b) 48 bits**

- (c) 64 bits
- (d) 128 bits

Q82. Which network device operates at Layer 2 (Data Link Layer) of the OSI model?

- (a) Hub
- (b) Switch
- (c) Router
- (d) Repeater

Q83. URL stands for:

- (a) Universal Resource Locator
- (b) Uniform Resource Locator
- (c) Unified Resource Link
- (d) Uniform Reference Location

Q84. What is the default port number used by HTTP?

- (a) Port 21
- (b) Port 25
- (c) Port 80
- (d) Port 443

Q85. What is the default port number used by secure web traffic (HTTPS)?

- (a) Port 80
- (b) Port 443
- (c) Port 22
- (d) Port 110

Section 5: Cyber Security, Viruses, Email & General Applications (15 MCQs)

Q86. A program that appears useful but secretly performs malicious actions in the background is called a:

- (a) Worm**
- (b) Trojan Horse**
- (c) Spyware**
- (d) Adware**

Q87. A self-replicating malware program that spreads across computer networks without requiring human interaction is a:

- (a) Virus**
- (b) Worm**
- (c) Keylogger**
- (d) Trojan**

Q88. Fraudulent attempts to obtain sensitive information (like passwords and credit card details) by disguising as a trustworthy entity in email is called:

- (a) Spoofing**
- (b) Phishing**
- (c) Pharming**
- (d) Spamming**

Q89. Type of malware that encrypts user files and demands payment to decrypt them is called:

- (a) Ransomware**
- (b) Spyware**
- (c) Rootkit**
- (d) Scareware**

Q90. A system or software designed to prevent unauthorized access to or from a private network is a:

- (a) Antivirus**
- (b) Firewall**

(c) Gateway

(d) Proxy Server

Q91. When sending an email, Bcc stands for:

(a) Blind Carbon Copy

(b) Blind Courtesy Copy

(c) Basic Carbon Copy

(d) Business Communication Copy

Q92. What is the primary function of a proxy server?

(a) Accelerate CPU execution speed

(b) Filter network traffic, hide real client IP, and improve security

(c) Format local hard drives

(d) Store system BIOS settings

Q93. Small text files stored on a user's computer by a web browser to track preferences and session state are called:

(a) Cache files

(b) Cookies

(c) Plug-ins

(d) Web beacons

Q94. Malicious software that secretly monitors keyboard inputs to capture passwords is a:

(a) Rootkit

(b) Keylogger

(c) Adware

(d) Ransomware

Q95. HTML stands for:

- (a) Hyper Text Markup Language**
- (b) High Text Machine Language**
- (c) Hyperlink Text Management Language**
- (d) Home Tool Markup Language**

Q96. Which among the following is an open-source web browser?

- (a) Internet Explorer**
- (b) Mozilla Firefox**
- (c) Safari**
- (d) Microsoft Edge**

Q97. In cybersecurity, "Zero-Day Vulnerability" refers to:

- (a) A security flaw known for zero days before a patch is created**
- (b) A virus that deletes data after 24 hours**
- (c) An expired antivirus license**
- (d) A network bug with zero impact**

Q98. Biometric authentication verifies identity using:

- (a) Passwords & PINs**
- (b) Physical characteristics (fingerprint, iris, facial recognition)**
- (c) OTP via SMS**
- (d) Security Questions**

Q99. What does VPN stand for?

- (a) Virtual Private Network**
- (b) Visual Protocol Network**
- (c) Verified Private Node**
- (d) Virtual Public Network**

Q100. Unsolicited commercial or bulk emails sent to users are commonly known as:

(a) Malware

(b) Spam

(c) Phishing

(d) Drafts

Answer Key

Q.No	Ans	Q.No	Ans	Q.No	Ans	Q.No	Ans	Q.No	Ans
1	(b)	21	(c)	41	(b)	61	(b)	81	(b)
2	(c)	22	(a)	42	(b)	62	(b)	82	(b)
3	(b)	23	(a)	43	(b)	63	(a)	83	(b)
4	(c)	24	(b)	44	(b)	64	(b)	84	(c)
5	(a)	25	(b)	45	(c)	65	(b)	85	(b)
6	(b)	26	(c)	46	(b)	66	(b)	86	(b)
7	(c)	27	(b)	47	(b)	67	(c)	87	(b)
8	(a)	28	(b)	48	(b)	68	(b)	88	(b)

9	(a)	29	(b)	49	(b)	69	(a)	89	(a)
10	(b)	30	(b)	50	(b)	70	(b)	90	(b)
11	(c)	31	(a)	51	(a)	71	(b)	91	(a)
12	(c)	32	(b)	52	(b)	72	(c)	92	(b)
13	(b)	33	(b)	53	(c)	73	(b)	93	(b)
14	(b)	34	(c)	54	(b)	74	(c)	94	(b)
15	(b)	35	(a)	55	(b)	75	(c)	95	(a)
16	(c)	36	(b)	56	(c)	76	(b)	96	(b)
17	(b)	37	(c)	57	(b)	77	(a)	97	(a)
18	(c)	38	(c)	58	(a)	78	(c)	98	(b)
19	(b)	39	(b)	59	(c)	79	(c)	99	(a)
20	(b)	40	(b)	60	(a)	80	(b)	100	(b)

