

Date of Examination: 08.03.2020

Time: 2 Hrs

Name of the Candidate:																				
Application No:																				

Candidate's Signature

Invigilator's Signature

Instructions to Candidates:

1. Use of Calculators, cell phones and other electronic devices IS NOT permitted inside Examination Hall.
2. Candidate should carefully read the instructions on Question paper and mark correct answer(s) in the Square bracket provided against each question
3. There are a total of 80 questions. The questions are divided into Part A and Part B. Part A consists of 60 questions carrying one mark each. Part B consists of 20 questions carrying two marks each.
4. Clarifications on questions are not permitted.
5. Rough work can be done in any blank space provided in the Question booklet only. Rough work should not be done anywhere except at the space provided at end of the question paper.
6. No candidate is allowed to leave the examination hall till the examination is over.

Key
✓ JT (CSE)

Part – A (60 x 1 = 60 Marks)

1. Which one of the following statements is correct?

- A. A number is treated as a signed or an unsigned number based on the MSB: all numbers are signed. Only non-negative numbers are unsigned.
- B. Whether a number is to be treated as a signed or an unsigned number depends on the programmer
- C. The range of values for a signed byte is -127 to +128 through 0
- D. A separate flag is set/reset to indicate a number being signed or unsigned

[B]

2. Which of the following statements is incorrect?

- A. A practical computer can exist without ROM
- B. ROM in a computer if present, lies in low memory
- C. ROM is write-able now-a-days
- D. Flash memory/SSD is a ROM

[A]

3. Which of the following statements about Cache memory is incorrect?

- A. A CPU in a general purpose computer does not 'know' about the possible existence of a cache.
- B. A CPU of a DSP/DSP processor 'knows' about the presence of a cache.
- C. A cache is the costliest part of the memory hierarchy.
- D. A cache is almost always smaller in size than the computer's main memory.

[C]

4. gcc is an open-source compiler, whose entire C code is downloadable. How does one get a gcc compiler on a new architecture: which of the following statements is incorrect?

- A. A executable binary could be available for the new architecture, which can be downloaded and run
- B. The new architecture has to have a native compiler, which compiles the gcc source code to get th gcc compiler
- C. The source code is available as an interpreter
- D. A cross-compiler compiles the source code for the new architecture on a different architecture, and generates a binary suitable for the new architecture.

[C]

5. Which one of the following is an incorrect statement about open source tools?

- A. octave and scilab are open source tools with MATLAB-like functionalities
- B. gimp is an open source tool with Adobe Photoshop-like functionalities
- C. Google Drive tools are open source tools with MS-Office-like functionalities
- D. Libra Office/Open Office is open-source with MS-Office-like functionalities

[C]

6. Which of the following statements about IoT (Internet of Things) is incorrect?

- A. IoT for big data often relies on the basic Cyber-Physical Systems architecture
- B. Small Embedded boards with Raspberry Pi have revolutionised IoT devices with compute power
- C. IoT precludes millitary operations
- D. Edge computing involves providing compute power closer to the sensors themselves, rather than sending the data to the cloud for compute power

[C]

7.	<p>Which of the following is incorrect in the context of microprocessors and microcontrollers?</p> <p>A. A microprocessor is a CPU on a chip</p> <p>B. A microcontroller is essentially a microprocessor + memory</p> <p>C. Washing machines and car engines with electronic control have microcontroller-based devices</p> <p><input checked="" type="checkbox"/> D. Microprocessor chips such as the Intel i7 are microcontrollers as they have on-board Cache</p>	[D]
8.	<p>Which of the following is not included in Industry 4.0</p> <p>A. Interconnection and Information Transparency</p> <p>B. Technical Assistance from Cyber-Physical Systems</p> <p>C. Decentralised Decision Making</p> <p><input checked="" type="checkbox"/> D. Smart Homes</p>	[D]
9.	<p>Which of the following is not an integral component of pipelined RISC processors?</p> <p>A. A reduced instruction set, with simpler instruction as opposed to complex multi-cycle instructions</p> <p><input checked="" type="checkbox"/> B. Microprogrammed Control</p> <p>C. The only instructions to access memory are LOADs and STOREs</p> <p>D. All ALU operations are register-to-register operations</p>	[B]
10.	<p>Which of the following is not a pipeline hazard?</p> <p>A. Structural hazard: a single-port memory</p> <p>B. A data dependence</p> <p>C. A jump statement</p> <p><input checked="" type="checkbox"/> D. An anti-dependence in a situation without loop unrolling and scheduling</p>	[D]
11.	<p>Which of the following can cause a hazard</p> <p><input checked="" type="checkbox"/> A. RAR</p> <p>B. RAW</p> <p>C. WAR</p> <p>D. WAW</p>	[A]
12.	<p>Which of the following statements about repetition commands is incorrect?</p> <p>A. A do-while loop is executed at least once</p> <p>B. A while loop may not even be executed once</p> <p><input checked="" type="checkbox"/> C. A for loop can only be used with integer counts</p> <p>D. An if-then-else structure can be used with a goto statement as a loop</p>	[C]

13.	<p>Which of the following statements about device drivers is incorrect?</p> <p><input checked="" type="checkbox"/> A. lshw is the linux command which gives a list of all device driver modules associated with the hardware present in a computer system</p> <p>B. Before the support for modules, device driver code had to be compiled into the operating system itself</p> <p>C. A module allows a device driver to be loaded in memory, on demand</p> <p>D. Examples of device drivers include character device drivers, block device drivers, etc.</p>	[A]
14.	<p>An important parameter in deciding the total amount of swap space is the width of a computer's address bus. For an old Intel Pentium-II, what is the total virtual address space?</p> <p><input checked="" type="checkbox"/> A. 4GB</p> <p>B. 2GB</p> <p>C. 8GB</p> <p>D. 16GB</p>	[A]
15.	<p>For a dynamically allocated array b, what happens if it is not freed at the end of a program? (Which one is the only correct answer?)</p> <p>A. The memory remains allocated, and is wasted</p> <p><input checked="" type="checkbox"/> B. The terminated process has its resources taken away from it by an operating system, at its convenience.</p> <p>C. The operating system transfers this memory from the heap space to the stack space</p> <p>D. There is a compilation error</p>	[B]
16.	<p>Which of the following is correct?</p> <p><input checked="" type="checkbox"/> A. A view in SQL is virtual table</p> <p>B. A view in SQL is physical table</p> <p>C. All views are updatable</p> <p>D. Only complex views are updatable</p>	[A]
17.	<p>Which one of the following will happen on trying to free a statically allocated array?</p> <p><input checked="" type="checkbox"/> A. A compilation error</p> <p>B. A run-time error</p> <p>C. No error</p> <p>D. None of the above</p>	[A]

18.	<p>Which of the following is correct?</p> <p><input checked="" type="checkbox"/> A) Every binary relation is in BCNF</p> <p>B) Normal forms are unnested</p> <p>C) Every 3NF is in BCNF</p> <p>D) All attributes in INF are non-atomic</p>	[A]
19.	<p>Consider the following statements:</p> <p>I. Meta data is data about data</p> <p>II. All views are updatable</p> <p>Which of the following is correct?</p> <p><input checked="" type="checkbox"/> A) Only I is true</p> <p>B) Only II is true</p> <p>C) Both are true</p> <p>D) Both are false</p>	[A]
20.	<p>For a basic 4-primary partition-based linux installation, which of the following is not a usual choice for a separate partition?</p> <p>A. /</p> <p>B. /home</p> <p>C. swap</p> <p><input checked="" type="checkbox"/> D. /tmp/</p>	[D]
21.	<p>Which of the following with respect to UEFI and MBR is incorrect?</p> <p>A. UEFI has networking features in the firmware itself</p> <p><input checked="" type="checkbox"/> B. BIOS supports SecureBoot</p> <p>C. The MBR cannot recover from errors all by itself as it does not have any error detection/recovery mechanism</p> <p>D. GPT uses a CRC check from other copies to recover from errors</p>	[B]
22.	<p>Which of the following statements about BIOS and UEFI are incorrect?</p> <p>A. BIOS uses the MBR to store information about the hard drive data</p> <p>B. UEFI uses the GPT (GUID Partition Table) to store information about the hard drive data</p> <p>C. UEFI firmware can boot from hard drives of sizes larger than 2.2TB, which BIO cannot</p> <p><input checked="" type="checkbox"/> D. Both BIOS and UEFI have only a text-only mode display</p>	[D]
23.	<p>Which of the following statements about partitions is incorrect?</p> <p>A. There can be at most 4 primary partitions (with an MBR)</p> <p>B. There can be any number of secondary (logical) partitions (with an MBR)</p> <p><input checked="" type="checkbox"/> C. If a boot flag is set for more than one partition, none of them is booted</p> <p>D. If more than one partition is bootable, the first bootable partition is chosen for booting, by default, if there is a time-out for a user to choose from a menu</p>	[C]

24.	<p>Which of the following points about swapping is incorrect?</p> <p>A. A swap partition is fast since it involves raw data and does not have to go through the file system</p> <p>B. Computer systems rarely have their entire address space available as main memory, hence swapping is necessary</p> <p>C. A swap file is more flexible since its size can change dynamically, unlike a swap partition</p> <p><input checked="" type="checkbox"/> D. Linux activates swapping as soon as the operating system starts operations</p>	[D]
25.	<p>Which of the following concepts is implemented in swapping?</p> <p><input checked="" type="checkbox"/> A. Virtual Memory</p> <p>B. Cache</p> <p>C. Multi-core CPU</p> <p>D. GPU</p>	[A]
26.	<p>Which of the following hardware operations is necessary for efficient implementation of swapping?</p> <p><input checked="" type="checkbox"/> A. DMA</p> <p>B. USART</p> <p>C. UART</p> <p>D. Non-maskable interrupts</p>	[A]
27.	<p>Which of the following statements about swap areas is incorrect?</p> <p>A. Windows chooses a swap file for flexibility of its size</p> <p>B. Linux can work with a swap file, but this is not generally recommended</p> <p>C. Linux can work with a swap partition, this is usually the recommended option</p> <p><input checked="" type="checkbox"/> D. A swap partition on Windows follows the NTFS file system</p>	[D]
28.	<p>Which of the following statements regarding a swap partition is incorrect?</p> <p>A. A swap partition if one exists, is always in an OS-specific format</p> <p><input checked="" type="checkbox"/> B. A swap partition is formatted according to the particular file system on the operating system</p> <p>C. A swap partition is generally chosen to be about twice the size of the main memory</p> <p>D. A swap partition's size ordinarily cannot be changed on the fly, in a running operating system.</p>	[B]
29.	<p>Which of the following is not a valid boot loader</p> <p>A. NTLDR</p> <p>B. GRUB</p> <p>C. LILO</p> <p><input checked="" type="checkbox"/> D. MBR</p>	[D]

30.	<p>Which of the following statements about a dual-boot system is incorrect?</p> <p>A. More than one version of the same operating system can share the same partition with data in it</p> <p>B. More than one operating system can share the same partition with data in it</p> <p>C. Swap partitions are OS-specific</p> <p><input checked="" type="checkbox"/> D. A boot loader always asks a user to choose a bootable partition</p>	[D]
31.	<p>For a typical Windows installation, it is advisable to keep a separate partition for data. Which one among the following, is not a valid reason for the same?</p> <p><input checked="" type="checkbox"/> A. CHKDSK acts only on system files, and will not act on user data in the case of a disk crash.</p> <p>B. OS upgrades typically wipe out the contents of the C drive</p> <p>C. Different Windows installations can utilise the same data partition</p> <p>D. The data can be logically kept separate, for an efficient backup mechanism</p>	[A]
32.	<p>Which of the following commands with an apt-get removes both packages and configuration files?</p> <p>A. autoremove</p> <p>B. remove</p> <p><input checked="" type="checkbox"/> C. purge</p> <p>D. upgrade</p>	[C]
33.	<p>Which of the following apt-get options and its description is incorrect?</p> <p><input checked="" type="checkbox"/> A. update: to upgrade a list of packages</p> <p>B. build-dep: builds dependencies for source packages</p> <p>C. dist-upgrade: upgrades a distribution</p> <p>D. source: downloads source archives</p>	[A]
34.	<p>A computer system refuses to boot up normally without a file system check. Which of the following statements is incorrect?</p> <p>A. The Windows File System Check software is CHKDSK.COM</p> <p>B. The Linux File System Check software is fsck</p> <p>C. A file system check tries to compare the file system on the disk with the last recorded status, and tries to repair it</p> <p><input checked="" type="checkbox"/> D. A journalling file system maintains a journal of all memory (main memory, cache memory) operations.</p>	[D]

35.	<p>A single core single CPU computer system is taking in data from an externally clocked device. Which of the following statements is incorrect?</p> <p>A. Time-shared processes in a single core single CPU machine can go out of context, including the one which initiated the transfer</p> <p>B. The data is collected by a device driver buffer (typically a circular buffer)</p> <p><input checked="" type="checkbox"/> C. Any data input has to be performed by a user process running with Administrator/Super-User privileges, else it loses data</p> <p>D. The highest rate of sampling of a computer is the rate at which the device driver is able to sample the input buffer.</p>	[C]
36.	<p>Which of the following statements regarding network connection hardware, is incorrect?</p> <p>A. A gateway connects two separate networks which may run different networking models</p> <p>B. A router is a network layer device, which connects LANs/WANs, and does the routing based on IP addresses</p> <p>C. A switch is typically a data link layer device</p> <p><input checked="" type="checkbox"/> D. A hub or repeater operated at the physical layer, with a routing table to route packets from one part of a network to another, as given by a routing table</p>	[D]
37.	<p>The ping utility checks for connectivity between computers on an IP network. Which of the following statements about using a ping utility is incorrect?</p> <p>A. ping measures the round-trip time between two computers on a network</p> <p>B. ping sends ICMP echo request packets and waits for ICMP echo reply</p> <p>C. TTL (Time-to-Live) limits the number of network hops</p> <p><input checked="" type="checkbox"/> D. ping requires a user to know the MAC address of the destination computer</p>	[D]
38.	<p>Which of the following conditions related to a ping are not possible?</p> <p>A. A computer with a LAN port and a Wireless card has two separate IP addresses</p> <p><input checked="" type="checkbox"/> B. A computer without a network card (wired, wireless) will not be able to ping itself</p> <p>C. The IP address of any machine by default is 127.0.1.1</p> <p>D. A ping on the name of a machine (without the IP address) can fail if the nameserver does not resolve the name to an IP address.</p>	[B]
39.	<p>Which of the following statements is not correct with regard to IPv4 and IPv6 networks</p> <p>A. Both have an ICMP header of 8 bytes</p> <p>B. Both have optional payload fields</p> <p>C. The header in IPv6 is 40 bytes, double the size of the IPv4 header (20 bytes)</p> <p><input checked="" type="checkbox"/> D. IPv4 uses a 32-bit IP address, whereas IPv6 uses a 64-bit IP address</p>	[D]

40.	<p>Which of the following points about IPv4 and IPv6 is not correct?</p> <p>A. IPv4 allows numeric addresses, while IPv6 allows alphanumeric addresses</p> <p>B. IPv4 field separators are dots, IPv6 separators are colons</p> <p>C. IPv4 uses ARP to map to MAC addresses, while IPv6 uses NDP to map to MAC addresses</p> <p><input checked="" type="checkbox"/> D. IPv4 field separators are dots, IPv6 separators are semi-colons</p>	[D]
41.	<p>Running ifconfig without any parameters on a typical laptop (running IPv4 under linux) with a RJ45 port, a Wireless chipset, a bluetooth adapter, and RJ10/RJ11/USB ports (without any adapter connected in them) will show how many network interfaces?</p> <p>A. 2: eth0 and wlan0</p> <p><input checked="" type="checkbox"/> B. 3: eth0, wlan0, lo</p> <p>C. 3: eth0, wlan0, bt0</p> <p>D. 2: eth0 and eth1</p>	[B]
42.	<p>On a linux computer with a wired Ethernet port and a Wireless interface, which of the following statements is untrue?</p> <p>A. eth0 and wlan0 correspond to two separate MAC addresses when the system is not connected to any network</p> <p><input checked="" type="checkbox"/> B. eth0 and wlan0 correspond to the same MAC address when the system is not on any network</p> <p>C. lo does not have a MAC address</p> <p>D. eth0 and wlan0 correspond to two separate MAC addresses when the system is connected to a network</p>	[B]
43.	<p>Which of the following is untrue about the DHCP protocol?</p> <p>A. DHCP assigns an IP address automatically from a list of available addresses</p> <p><input checked="" type="checkbox"/> B. DHCP cannot assign addresses based on a pre-stored MAC mapping on a DHCP server</p> <p>C. If more than one DHCP server is present in a network, the one which communicates with a machine the quickest becomes the server, for a client</p> <p>D. The protocol expects the client to configure itself with the negotiated parameters from a server</p>	[B]
44.	<p>Which of the following statements about DHCP is incorrect?</p> <p>A. The DHCP protocol is over UDP</p> <p><input checked="" type="checkbox"/> B. The DHCP protocol is over TCP</p> <p>C. The protocol does not mandate the sending of a DHCP Release for a client wishing to exit from a network</p> <p>D. A Unix client can refine parameters from values set in /etc/dhclient.conf</p>	[B]

45.	<p>Which of the following statements about DNS is incorrect?</p> <p>A. A system administrator usually designates one or two machines as DNS servers, to translate names into IP addresses</p> <p>B. The names which the network's DNS cannot resolve, are carried over to the DNS of the service provider, which gives Internet services to the network</p> <p><input checked="" type="checkbox"/> C. Google's IPv4 DNS servers are 8.8.8.8 and 4.4.4.4</p> <p>D. A DNS server can maintain a list of names which respond to different IP addresses at different points in time.</p>	[C]
46.	<p>Which of the following statements about WiFi settings is incorrect?</p> <p>A. To connect to a WiFi network, one must first select the SSID</p> <p>B. The WiFi network may be password protected</p> <p>C. Connection to some WiFi networks need a client to specify parameters such as the encryption, and the specific protocol</p> <p><input checked="" type="checkbox"/> D. WiFi networks cannot exist without DHCP</p>	[D]
47.	<p>Which of the following statements is not correct, about Wireless Access Points and related technology?</p> <p>A. A Wireless Access Point can connect to a router via a wired network</p> <p>B. A Wireless Access Point can be a part of the Wireless Router itself</p> <p><input checked="" type="checkbox"/> C. A Wireless Access Point cannot connect to an ADSL modem and router with an attached telephone network</p> <p>D. A Wireless Router itself can support wired connections</p>	[C]
48.	<p>Which of the following steps is not essential for setting a router with DHCP</p> <p>A. Router IP address</p> <p>B. Subnet mask</p> <p><input checked="" type="checkbox"/> C. Encryption</p> <p>D. DHCP IP address range</p>	[C]
49.	<p>Which of the following is not a valid security option for setting up a Wireless router?</p> <p>A. No security</p> <p>B. WPA2-PSK</p> <p>C. WPA2-802.1x</p> <p><input checked="" type="checkbox"/> D. WPA2-802.3</p>	[D]

50.	<p>Which of the following is not a valid security option for setting up a Wireless router?</p> <p>A. No security</p> <p>B. WPA2-PSK</p> <p>C. WPA2-802.1x</p> <p><input checked="" type="checkbox"/> D. WPA2-802.3</p>	[D]
51.	<p>Which of the following IEEE standards describes a wired LAN protocol?</p> <p><input checked="" type="checkbox"/> A. IEEE 802.3</p> <p>B. IEEE 802.11</p> <p>C. IEEE 802.5</p> <p>D. IEEE 802.1</p>	[A]
52.	<p>The first wireless protocol was Normal Abramson's Aloha protocol connecting 7 computers over 4 islands in Hawaii, connecting to a central computer on the Oahu island. Which of the following statements about the Aloha protocol is incorrect?</p> <p>A. The individual communication was via satellite communication</p> <p><input checked="" type="checkbox"/> B. The individual communication was via short-range wireless signals sent across water, noting that salt water is an excellent conductor of electrical signals, and the centres were all located in islands a short distance from each other.</p> <p>C. Aloha is a random access protocol</p> <p>D. Two variants of Aloha are pure Aloha and Slotted Aloha</p>	[B]
53.	<p>Which of the following points about the 'Ethernet' protocol is incorrect</p> <p>A. The protocol is formally known as IEEE 802.3</p> <p>B. The protocol was built on CSMA/CD</p> <p><input checked="" type="checkbox"/> C. The protocol follows a back-off procedure based on the Poisson distribution, in case of collisions</p> <p>D. The protocol follows a back-off procedure based on the exponential distribution, in case of collisions</p>	[C]
54.	<p>Which of the following statements for a Wireless LAN is incorrect?</p> <p>A. A wireless LAN can exist in an infrastructure mode, where a base station has a wireless access point hub.</p> <p>B. A wireless LAN can exist in an <i>ad hoc</i> mode, where there is only P2P (Peer-to-Peer) communication.</p> <p>C. The IEEE 802.11 standard for wireless LANs is based on CSMA/CA</p> <p><input checked="" type="checkbox"/> D. The IEEE 802.3 standard for wireless LANs is based on CSMA/CD</p>	[D]

55.	<p>What is the design of a system to manage information flow across departments, accounts, administration, using online databases for the same, and the like, called?</p> <p>A. Database Management Systems B. Total Quality Management C. Software Engineering <input checked="" type="checkbox"/> D. Enterprise Resource Planning</p>	[D]
56.	<p>What is the main difference between ERP and CRM?</p> <p>A. ERP and CRM both involve the same set of activities, they are just named differently B. CRM involves front-office activities whereas ERP involves back-office activities C. CRM relates to customers and their activities, whereas ERP mainly involves employees <input checked="" type="checkbox"/> D. B and C above.</p>	[D]
57.	<p>What parameters are needed for a MySQL connection in PHP?</p> <p>A. servername, database name <input checked="" type="checkbox"/> B. servername, username, password C. database name, servername, username, password D. username, password</p>	[B]
58.	<p>What parameters are needed to close a connection in MySQL with PHP?</p> <p>A. None in the procedural case, the connection in the object oriented case <input checked="" type="checkbox"/> B. the connection ID C. The database name, username, password, server name D. The username and password</p>	[B]
59.	<p>What is the Oracle data type which Java can convert to with functions such as SetBoolean() and SetLong()?</p> <p><input checked="" type="checkbox"/> A. NUMBER B. INTEGER C. VARCHAR D. RAW</p>	[A]
60.	<p>What type of databases is JDBC connectivity geared towards</p> <p><input checked="" type="checkbox"/> A. Relational B. Hierarchical C. Network D. All of the above</p>	[A]

Part – B (20 questions each carry 2 marks)

61.	<p>Which one of the following statements is correct?</p> <p><input checked="" type="checkbox"/> A. PHP is a scripting language for server-end programming</p> <p><input type="checkbox"/> B. PHP is a scripting language necessary for client-end programming</p> <p><input type="checkbox"/> C. PHP is a scripting language necessary for both server and client-end programming</p> <p><input type="checkbox"/> D. None of the above</p>	[A]
62.	<p>Which one of the following statements is correct?</p> <p><input type="checkbox"/> A. a PHP compiler is needed on a computer which wishes to use PHP</p> <p><input checked="" type="checkbox"/> B. PHP is a scripting language and doesn't need a compiler</p> <p><input type="checkbox"/> C. PHP cannot be integrated into HTML</p> <p><input type="checkbox"/> D. HTML integration of PHP needs Java</p>	[B]
63.	<p>Which of the following is correct, concerning the following PHP statement</p> <pre><?php echo 'Hello, World'; ?></pre> <p><input checked="" type="checkbox"/> A. The above statement is correct</p> <p><input type="checkbox"/> B. There should have been double inverted commas in the string</p> <p><input type="checkbox"/> C. <code><code></code> and <code></code></code> should have been used in place of what is written</p> <p><input type="checkbox"/> D. The semicolon is extraneous</p>	[A]
64.	<p>Which of the following is correct?</p> <p><input type="checkbox"/> A. PHP does not support any database system</p> <p><input type="checkbox"/> B. PHP has intrinsic support for Oracle DBMS</p> <p><input checked="" type="checkbox"/> C. PHP has intrinsic support for MySQL</p> <p><input type="checkbox"/> D. PHP needs non-open-source packages to interface with MySQL databases</p>	[C]
65.	<p>Which of the following is true?</p> <p><input checked="" type="checkbox"/> A. PHP can exist without any HTML tags</p> <p><input type="checkbox"/> B. PHP can only exist with HTML tags <code><html> <php-code> </html></code></p> <p><input type="checkbox"/> C. A server needs a PHP compiler to convert PHP code to HTML</p> <p><input type="checkbox"/> D. PHP code must always be written in lower-case.</p>	[A]

66.	<p>Which of the following statements is incorrect</p> <p>A. PHP statements need to be separated with semicolons</p> <p>B. A single PHP statement need not have a semicolon at the end</p> <p><input checked="" type="checkbox"/> C. PHP statements need to be separated with commas</p> <p>D. PHP code can have one statement, or more than one statement</p>	[C]
67.	<p>Which one of the following statements about PHP comemnts is incorrect?</p> <p>A. A PHP comment can be written with C-style comments /*, */</p> <p>B. A single-line PHP comment can be prefixed with a #</p> <p>C. A single-line PHP comment can be prefixed with a //</p> <p><input checked="" type="checkbox"/> D. A single-line PHP comment can be prefixed with a ;</p>	[D]
68.	<p>Which one of the following statements about PHP data types is incorrect?</p> <p><input checked="" type="checkbox"/> A. PHP has a Boolean data type where entities can only be 0 or 1, nothing else</p> <p>B. PHP has a Boolean data type where non-zero entities are treated as true</p> <p>C. PHP supports signed integers</p> <p>D. PHP supports floating point numbers</p>	[A]
69.	<p>Which one of the following statements about PHP support is absolutely incorrect?</p> <p>A. PHP support to a web server can be as a native web server module</p> <p>B. PHP support to a web server can be as a CGI executable</p> <p>C. For command-line scripting using PHP, a PHP CLI is necessary</p> <p><input checked="" type="checkbox"/> D. PHP cannot be used for command-line scripting</p>	[D]
70.	<p>Which of the following is not exclusively a server-side scripting scheme?</p> <p>A. PHP</p> <p>B. ASP.NET</p> <p>C. JavaServer Pages</p> <p><input checked="" type="checkbox"/> D. python</p>	[D]
71.	<p>After installing the Apache server on a linux-based system, what is the name of the process which runs?</p> <p>A. apache</p> <p>B. http</p> <p><input checked="" type="checkbox"/> C. httpd</p> <p>D. Web-server</p>	[C]

72.	<p>Which of the following modules are not supported by the Apache web server?</p> <p>A. mod_ssl B. mod_proxy C. mod_rewrite <input checked="" type="checkbox"/> D. mod_httpd</p>	[D]
73.	<p>Which one of the following statements are not true about Python in general?</p> <p><input checked="" type="checkbox"/> A. Python is a compiler-based language B. Python is an interpreter-based language C. Python support Object Oriented Programming D. Python supports structured programming</p>	[A]
74.	<p>Consider the following statements</p> <p>I. MOODLE is open source learning platform II. MOODLE is a single robust, secure and integrated system to create personalised learning environments</p> <p>Identify the correct one?</p> <p>A) Only I is true <input checked="" type="checkbox"/> B) Only II is true <input checked="" type="checkbox"/> C) Both are true D) Both are false</p>	[C]
75.	<p>Consider the following statements</p> <p>I. WHERE clause in SQL is used to filter rows of groups created by GROUP by clause MOODLE is open source learning platform II. HAVING clause in SQL is used to filter rows of groups created by GROUP by clause MOODLE is open source learning platform</p> <p>Identify the correct one?</p> <p>A. Only I is true B. Only II is true <input checked="" type="checkbox"/> C. Both are true D. Both are false</p>	[✓]
76.	<p>Which of the following is not an ICT Tool?</p> <p>A) Laptop <input checked="" type="checkbox"/> B) Projector <input checked="" type="checkbox"/> C) Software Programme D) All of the above</p>	[C]
77.	<p>Consider the following statements:</p> <p>I. DFDs are process oriented diagrams II. ERWIN is data modeling tool</p> <p>Which of the following is correct?</p> <p>A) Both are correct B) Both are in correct <input checked="" type="checkbox"/> C) Only I is correct D) Only II is correct</p>	[A]

78.	NoSQL means A) Unlearning of SQL knowledge B) Not Only SQL C) Learning more about SQL D) Structured query Language	[B]
79.	IS NULL statement in SQL is _____ A) A Boolean function B) A Check Constraint C) Used to print list of null values D) Used to print list of non null values	[A]
80.	Which of the following is not a relational database package? <input checked="" type="checkbox"/> A) MongoDB <input type="checkbox"/> B) DB2 <input type="checkbox"/> C) SYBASE <input type="checkbox"/> D) Oracle RDBMS	[A]

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