Paper I

009564

AL/2021(2022)/20/E-I

සියලුම හිමිකම් ඇව්රිණි /(ψ (ψ) பதிப்புரிமையுடையது / $All\ Rights\ Reserved$

ලංකා විභාග දෙපාර්තමේන්තුව ලී ලංකා විභාග දෙපාර්ත**ල් අපුවැති වේ. විභාග දෙපාර්තමේන්තුව**මග දෙපාර්තමේන්තුව ලී ලංකා විභාග දෙපාර්තමේන්තුව හතිගත්ව பුරිධ ගැන්න නියාතාස්කතාව මුහතිකත්ව පාර්තමේන්තුවක් නියාතාස්කතාව නියාතාස්කතාව මුහතිකත්ව ප්රධානය නියාතාස්කතා epartment of Examinations, Sri Lanka Department of **මුහාසිකත්ත Stiff Lanka Occasion** (මුහතිකත්ව ලී ලංකා විභාග දෙපාර්තමේන්තුව ලංකා විභාග දෙපාර්තමේන්තුව ලී ලංකා විභාග දෙපාර්තමේන්තුවේ ලෝකාවේ ප්රධාන විභාග දෙපාර්තමේන්තුව ලී ලංකා විභාග දෙපාර්තමේන්තුව හතිගත්ව ප්රධානය සිටින් සිටින්

අධායන පොදු සහතික පතු (උසස් පෙළ) විභාගය, 2021(2022) கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2021(2022) General Certificate of Education (Adv. Level) Examination, 2021(2022)

තොරතුරු හා සන්නිවේදන තාක්ෂුණය தகவல், தொடர்பாடல் தொழினுட்பவியல் Information & Communication Technology

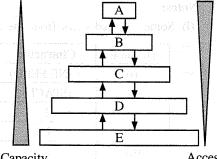


පැය දෙකයි இரண்டு மணித்தியாலம் Two hours

Instructions:

- * Answer all the questions.
- Write your Index Number in the space provided in the answer sheet.
- Instructions are also given on the back of the answer sheet. Follow those carefully.
- In each of the questions 1 to 50, pick one of the alternatives from (1), (2), (3), (4), (5) which is correct or most appropriate and mark your response on the answer sheet with a cross (x) in accordance with the instructions given on the back of the answer sheet.
- Use of calculators is not allowed.
- 1. Which of the following pairs contains types of software that are different with respect to ownership / licensing?
 - (1) Application software and open-source software
 - (2) Application software and utility software
 - (3) Proprietary software and open-source software of the animal of the animal of the software of the software
 - (4) Proprietary software and systems software
 - (5) Systems software and utility software
- 2. Which of the following is a good example for batch processing? and all because the same of
 - (1) an air traffic control system
 - (2) driving system in a driver-less (autonomous) car
 - (3) Intensive Care Unit (ICU) patient monitoring and care system
 - (4) payroll system
 - (5) nuclear plant control system
- 3. There are different storage components which vary in capacity and access speed.

Consider that the shown diagram portrays capacity and access speed variation of the storage components L1 cache, L2 cache, main memory, registers and the hard disk. The capacity increases and access speed decreases from top to bottom, as shown.



Capacity

Access speed

Which is correct with respect to the A, B, C, D and E above?

- (1) A hard disk, B registers, C L2 cache, D L1 cache, E main memory
- (2) A L1 cache, B L2 cache, C registers, D hard disk, E main memory
- (3) A main memory, B registers, C hard disk, D L1 cache, E L2 cache
- (4) A registers, B L1 cache, C L2 cache, D main memory, E hard disk
- (5) A registers, B main memory, C L2 cache, D L1 cache, E hard disk

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4. Consider the following paragraph:

To run a program, the program code is copied fromA...... intoB...... The Central Processing Unit's (CPU's) program counter register is set to the memory location where the first instruction of the program has been saved and execution of the program starts. TheC..... implements the fetch - decode - execute cycle.

Which of the following is the correct combination for A, B and C?

- (1) A CPU, B primary memory, C secondary storage
- (2) A CPU, B secondary storage, C primary memory
- (3) A primary memory, B secondary storage, C CPU
- (4) A secondary storage, B CPU, C primary memory
- (5) A secondary storage, B primary memory, C CPU
- 5. What is the correct result of bit-wise XOR operation between the two binary numbers 01011100₂ and 11111001,?
 - (1) 00000010
- (2) 01011000
- (3) 01011010
- (4) 10100101
- (5) 111111101
- 6. What is the correct 2's complement binary representation of decimal -32_{10} using 8-bits?
 - (1) 00100000
- (2) 10100000
- (3) 11011111
- (4) 11100000
- (5) 11100001
- 7. What is the correct decimal equivalent of hexadecimal 88.8₁₆?
 - (1) 88.5₁₀
- (2) 88.8₁₀
- (3) 129.5₁₀
- (4) 136.5₁₀ (5) 136.8₁₀
- 8. A particular command can be used to output the values of every byte in a file in decimal format. Assume a file contains the following text:

Love trees!

Referring the two Notes (i) and (ii) given below, select the correct output that will result when the said command is run on that file.

(1) 76	111	118	101	32	116	114	101 101	115 10
(2) 76	111	118	101	116	114	101	101 115	33 10 10
(3) 76	111	118	101	32	116	114	101 101	115 33 10
(4) 108	111	118	101	116	114	101	101 115	33 10
(5) 108	111	118	101	32	116	114	101 101	115 33 10

(i) Some selected rows from the ASCII table are given below:

Decimal	Character
10	(LINE FEED)
32	(SPACE)
33	
76	L
101	e

Decimal	Character		
108	Min Indian		
111	0 O		
114	r		
115	S		
116	t		
118	v		

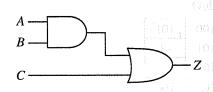
(ii) The file ends with a LINEFEED character.

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9. Consider the following Karnaugh map and the logic circuit implemented based on it where A, B and C are the inputs and Z is the output:

		AB			
		00	01	11	10
_	0	0	е	f	0
С	1	1	g	h	1



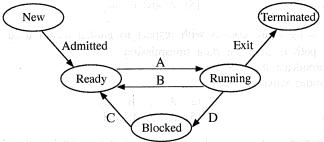
(a) Karnaugh map

(b) Logic circuit based on Karnaugh map

For the logic circuit to correctly implement the logic function represented in the Karnaugh map, what should be the values of e, f, g, h?

- (1) e=0, f=0, g=1, h=1
- (2) e=0, f=1, g=1, h=1
- (3) e=1, f=0, g=1, h=1
- (4) e=1, f=1, g=0, h=0
- (5) e=1, f=1, g=0, h=1
- 10. Amara logs into a single-processor computer and starts a program to work on his presentation. He opens up a web browser too to get some information as well.

Consider the following process state transition diagram with respect to the process corresponding to Amara's presentation program.



Consider some reasons for above state transitions:

Reason	Description Description
1	Amara saving his presentation on the hard disk
2, 2, 2, 2, 2	Operating system scheduling the presentation process to run on the processor
3.4	Operating system suspending the presentation process to let the web browser process to run on the processor
4	The finishing of saving the presentation on the hard disk

Which of the following gives a correct combination of reasons for transitions A to D?

- (1) A-1, B-2, C-3, D-4
- (2) A 2, B 3, C 4, D 1
- (3) A-3, B-4, C-1, D-2 (4) A-4, B-1, C-2, D-3
- (5) A-4, B-1, C-3, D-2
- 11. A page table is
 - (1) a computer hardware unit through which all memory references pass.
 - (2) a data structure that keeps information about the pages that are in processor caches.
 - (3) a hardware component in memory that facilitates page movement.
 - (4) an operating system data structure that keeps virtual to physical address mapping of a process pages.
 - (5) a piece of processor hardware that keeps a count of the number of pages of a process that are in virtual memory.

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12. The block size of a disk is 4KB. A portion of its File Allocation Table (FAT) at a particular time is shown below. The portion shown gives the blocks of the myprog.py file as well.

FAT

100	101
101	1
102	
103	100
104	

Notes: 1. The last block of a file is indicated by -1.

2. The directory entry of a file contains the block number of the first block of the file. Which of the following gives the directory entry for the myprog.py file and the disk space allocated for the myprog.py file respectively?

- (1) 100, 12KB
- (2) 101, 12KB
- (3) 101, 16KB
- (4) 103, 12KB (5) 103, 16KB

13. Which of the following is/are correct with respect to a digital signal?

A – denoted by a square wave

B - contains a continuous range of values was a solutional design of a second of the continuous range of values

C - uses discrete values to represent information of page 122-2020 many representation of page 122-2020 many represe

(1) A only

(2) B only

(4) A and B only

(5) A and C only

14. Which of the following is/are correct with respect to guided media used for data transmission?

A - a physical path is used for data transmission

B - signal is broadcast through air

C – Example: radio waves

(1) A only

(2) A and B only

(3) A and C only

(4) B and C only

(5) All A, B and C

15. Which of the following could be used to digitally represent analog signals?

(1) attenuation

(2) decoding

(3) distortion

(4) pulse code modulation

(5) synchronization

16. Read the following sentence:

When devices send and receive data over a network, a protocol is used uniquely identify the sender interface and the correct delivery of the data to the receiver's interface.

What is the protocol that the writer in above sentence is referring to?

- (1) FTP
- (2) HTTP (3) MAC

(4) TCP (5) UDP

17. Given below are some characteristics of Transmission Control Protocol (TCP) and User Datagram Protocol (UDP):

A - best suited for applications that need high reliability and where the transmission time is less critical

B – faster and requires fewer resources

C – guarantees that no packets are missing

D - packets may not arrive in order

E – used for voice communications over internet

Which of the above are the characteristics of UDP?

- (1) A, B and C only
- (2) A, C and E only
- (3) A, D and E only
- (4) B, C and D only (5) B, D and E only

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- 18. Which of the following is/are examples for the use of the Client-Server model?
 - A A user printing a document using a printer connected to her computer
 - B A bank customer accessing online banking services with a web browser
 - C A cashier of a shop that accepts payments by credit cards
 - (1) A only

(2) B only

(3) C only

(4) A and C only

- (5) B and C only
- 19. Sender A wants to send the message HELLO to receiver B. Before sending the message, it is converted to IFMMP. Which of the following is correct with respect to this scenario?
 - A -HELLO is the plaintext while IFMMP is the ciphertext.
 - IFMMP is the result of applying the ASCII code to HELLO.
 - +1 is the encryption key while -1 is the decryption key.
 - (1) A only
- (2) A and B only (3) A and C only

(4) B and C only

- (5) All A, B and C
- 20. Consider the following paragraph with three blanks labelled A, B and C:

When there are multiple computers in an office, each computer can be given a private IP address. The router in the office gets aA...... IP address, and each of the computers connected to that router through guided/unguided media gets a private IP address from the via theC..... protocol.

Which of the following is the correct combination for the blanks A, B and C?

- (1) A private, B file server, C HTTP
- (2) A private, B Internet, C DHCP
- (3) A private, B router, C FTP
- (4) A public, B file server, C FTP
- (5) A public, B router, C DHCP
- 21. Consider the information system types in List A and some examples in List B:

List A

- A1 Enterprise Resource Planning System
- A2 Expert system
- A3 Transaction processing system

- B1 A customer account system in a bank
- B2 A system that facilitates manufacturing, marketing and sales of a garment business
- B3 A system that prescribes ayurvedic medicines using a knowledge base

A good matching between lists A and B is:

- (1) A1-B1, A2-B2, A3-B3
- (2) A1-B2, A2-B3, A3-B1
- (3) A1-B3, A2-B1, A3-B2
- (4) A1-B2, A2-B1, A3-B3
- (5) A1-B3, A2-B2, A3-B1
- 22. Which of the following is incorrect about the Agile Method?
 - (1) It cannot be used when the project has a fixed set of requirements.
 - (2) It recommends a time sliced schedule for task completion.
 - (3) It delivers gradual builds of the working product in an iterative manner.
 - (4) It facilitates stakeholders (e.g., buyer, user) to review progress and provide feedback at every phase.
 - (5) The product of each build is tested independently.

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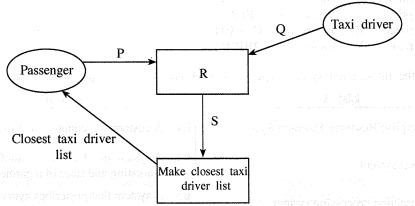
- 23. Which of the following statements is/are correct with respect to Object Oriented Programming?
 - A System output is determined by the object behaviour and their interactions.
 - B System is modelled as a collection of objects.
 - C Writing a program in this method is different from writing one according to the *structured* programming method.
 - (1) A only

(2) B only

(3) Conly

(4) A and C only

- (5) All A, B and C
- 24. Which of the following lists the activities of Structured System Analysis and Design Methodology (SSADM) in the correct order?
 - (1) Feasibility study, Physical design, Requirement analysis, Requirement specification, System development
 - (2) Feasibility study, Requirements analysis, Requirement specification, Logical system specification, Physical design
 - (3) Feasibility study, Requirement specification, Requirements analysis, Logical system specification, Physical design
 - (4) Requirements analysis, Logical system specification, Feasibility study, Requirement specification, Physical Design
 - (5) Requirements analysis, Requirement specification, Feasibility study, Physical design, System development
 - A system that gives the list of closest taxi drivers to a passenger is to be developed. Answer questions 25 and 26 with respect to it.
- 25. Assume that the following is the Level 1 DFD for this system:



Which of the following contains the suitable replacements for P, Q, R and S in the above diagram?

- (1) P Location, Q Driver code, R Get passenger and driver locations, S Passenger and driver locations
- (2) P Location, Q Driver code and location, R Get passenger and driver details, S Passenger and driver details
- (3) P NIC number, Q NIC number, R Get passenger and driver NIC numbers, S Passenger and driver NIC numbers
- (4) P Passenger code, Q Driver code, R Get passenger and driver codes, S Passenger and driver codes
- (5) P Passenger code, Q Location, R Get passenger and driver locations, S Passenger and driver locations
- **26.** Above Level-1 DFD was later improved so that a data store (D1) was connected to the process labelled R. What could be this data store?
 - (1) NIC data

- (2) Passenger details
- (3) Taxi driver details

- (4) Travel cost details
- (5) Weather records

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- 27. Which of the following gives a suitable order of activities to follow when developing a system that involves a database?
 - (1) Design the database, Draw the DFD, Draw the ER diagrams, Do the coding, Write the pseudo-code
 - (2) Design the database, Write the pseudo-code, Draw the ER diagrams, Draw the DFD, Do the coding
 - (3) Do the coding, Write the pseudo-code, Design the database, Draw the ER diagrams, Draw the DFD
 - (4) Draw the DFD, Draw the ER diagrams, Design the database, Write the pseudo-code, Do the coding
 - (5) Draw the ER diagrams, Do the coding, Write the pseudo-code, Design the database, Draw the DFD
- 28. Which of the following statements is/are correct about acceptance testing?
 - A Acceptance testing is done when the user requirements of the software are analysed.
 - B An essential activity in acceptance testing is checking through the conditional statements and loops in the code.
 - C Users may refuse to accept the software after the Acceptance Test.
 - (1) A only

(2) B only

(3) C only

- (4) A and C only
- (5) All A, B and C
- 29. Which of the following statements is correct about software deployment?
 - (1) Direct deployment has the highest risk of complete failure but may be the only suitable method for some cases.
 - (2) Direct deployment is the most expensive and offers slowest learning to the users.
 - (3) Parallel deployment is the least expensive deployment option.
 - (4) Phased deployment does not provide the freedom for the relevant organization to make any needed adjustments to the system.
 - (5) Pilot deployment always rolls out the new system to a test user group larger than 50% of the users.
- 30. Which of the following statements is/are correct?
 - A Business Process Re-engineering helps to modify the existing business practices to fit with Commercial-Off-The-Shelf (COTS) software.
 - B Users may have to pay for certain features of COTS even if those are not needed.
 - C A well developed custom software can bring a competitive advantage to an organization.
 - (1) A only

(2) B only

(3) A and B only

- (4) B and C only
- (5) All A, B and C
- 31. Which of the following is a (are) good practice(s) to follow in database development?
 - A the use of meaningful names for tables and fields
 - B letting different tables repeat the same information (other than the primary keys)
 - C avoiding a field and and its table having the same name (in order to avoid confusion while writing queries)
 - (1) A only

(2) B only

(3) C only

(4) A and B only

(5) A and C only

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Consider the following Results and Subjects tables to answer questions from 32 to 35:

KCSuito					
StudentNo	NIC	FirstName	SubjectID	Grade	
S1234	986888457V	Nilam	e en ENG	gd with ${f B}_{ m glass}$. (
S1447	992562321V	Praveena	PHY	C	
S1234	986888457V	Nilam	ACC	Α	
S1323	900251452V	Thilan	ENG	S	
S1323	900251452V	Thilan	ACC	Base	

Subjects

SubjectID	SubjectName		
ENG	English		
PHY	Physics		
ECO	Economics		
ACC	Accountancy		

- 32. Which of the following is most suited to be selected as the primary key of the Results table with respect to the given details?
 - (1) NIC
 - (2) SubjectID
 - (3) StudentNo year bud shallon resignous so less coulons set and becomestight transf
 - (4) StudentNo and NIC
 - (5) StudentNo and SubjectID work stoffer from transapper have self at newsympth a stoff
- Similal diployment is the least expensive deptorment of 33. What is the correct SQL statement to retrieve the values of attributes StudentNo, SubjectName and Grade?
 - (1) SELECT Results.StudentNo, Subjects.SubjectName, Results.Grade FROM Results INNER JOIN ON Results.SubjectID = Subjects.SubjectID;
 - (2) SELECT Results.StudentNo, Subjects.SubjectName, Results.Grade FROM Results INNER JOIN Results.SubjectID = Subjects.SubjectID;
 - (3) SELECT Results.StudentNo, Subjects.SubjectName, Results.Grade FROM Results INNER JOIN Subjects IN Results.SubjectID = Subjects.SubjectID;
 - (4) SELECT Results.StudentNo, Subjects.SubjectName, Results.Grade FROM Results INNER JOIN Subjects ON Results.SubjectID = Subjects.SubjectID;
 - (5) SELECT Results.StudentNo, Subjects.SubjectName, Results.Grade INNER JOIN Results AND Subjects Results.SubjectID = Subjects.SubjectID;
- 34. Which of the following is the correct statement about the Results table?
 - (1) All the non-key attributes are fully functionally dependent on the primary key.
 - (2) It has one candidate key.
 - (3) It is in the First Normal Form (1NF). The same and program sales to the mail to be a sale of the s
 - (4) It is in the Second Normal form (2NF).
 - (5) The cardinality of the table is four.
- 35. Which dependency is removed when converting the Results table to next normal form?
 - (1) foreign key dependency
 - (2) fully functional dependency of non-key attributes on the primary key
 - (3) multivalued dependency
 - (4) partial dependencies of non-key attributes on the primary key
 - (5) transitive dependency of non-key attributes

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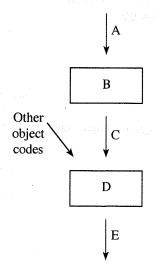
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- 36. Following are the steps involved in creating an Entity Relationship (ER) Diagram:
 - I. Determine theA.... in your diagram.
 - II. Add**B**.... to each**C**....
 - III. Include theD.... between theA................. and another the distributions
 - III. Include theD.... between theA....... as as the legislation of a little in the legislation of the legislation of

Which of the following gives suitable choices for the A, B, C, D and E blanks in the above steps?

- (1) A attributes, B entities, C attribute, D cardinality, E entities
- (2) A attributes, B cardinality, C attribute, D entities, E- entity
- (3) A- entities, B attributes, C entity, D relationships, E cardinality
- (4) A- entities, B relationship, C entity, D attributes, E cardinality
- (5) A relationships, B cardinality, C relationship, D attributes, E entities
- 37. Which of the following can be modelled with an Extended Entity Relationship diagram?
 - A subclasses of an entity
 - B inheritance of attributes
 - C specialization of entities
 - (1) A only
 - (4) A and C only
- (2) B only
- (5) All A, B and C
- (3) C only

38. A teacher of a programming class draws the following diagram and asks the students to identify the components indicated by A, B, C, D and E:



Which of the following gives the correct choices for A, B, C, D and E?

- (1) A compiler, B executable code, C source code, D linker, E object code
- (2) A compiler, B source code, C executable code, D object code, E linker
- (3) A linker, B source code, C object code, D executable code, E compiler
- (4) A source code, B object code, C linker, D compiler, E executable code
- (5) A source code, B compiler, C object code, D linker, E executable code

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AL/2021(2022)/20/E-I - 10 -Consider the algorithm expressed by the flowchart and answer questions 39 and 40. This algorithm takes as input first an integer $n \ge 1$ Start followed by a sequence of n integers one by one. The algorithm is expected to output the count of the state of Input n integers that are less than 100 among the sequence and the of n inputs. count = 0i = 0Input x Is x < 100? No Yes P i = i + 139. For the algorithm to function correctly as expected, what should be inserted at the blank (P)? No Is i = n? (1) count = count + 1 (2) count = count + iYes (3) count = count + xOutput count (4) n = n - 1(5) n = n + 1Stop 40. Which of the following Python programs implement the algorithm in the flowchart? I n = int(input()) count = 0 for i in range(n): x = int(input())if (x < 100): count = count + i print(count) II n = int(input()) count = 0for it in range(n): St. Show some Dishop dishbooks - Gisplignes - A (1) x =gint(input()) obco ekkamonos - b podeco ecanos - B podeco - A (L) $if_{+}(x_{c}<,100)$: $_{\rm CRS}=0$, then the first and $x_{c}<0$, where $x_{c}=0$, $x_{c}=0$ count at a la company de la co print(count) n = int(input()) count = i = 0while (i < n): x = int(input())if (x < 100): count = count + 1print(count) (2) Only II (3) Only I and II (1) Only I (4) Only II and III (5) All I, II and III

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AL/2021(2022)/20/E-I - 11 -41. What would be the output after executing the following Python code? n = 117m = (n & 127) // (2 ** 3)print(m) (1) 1(2) 14 (3) 14.625 (4) 15 42. What will be the result when the following Python code is executed? x = 10def myfun(a): global x a = x + ax = 30return a print(myfun(x)) (2) 20 (4) 40 (5) an error 43. What will be the output of the following Python code segment? S = ["covid", "pandemic", "vaccine", "booster", "virus"] V = "aeiou" count = 0 for i in range(len(S)): for j in range(len(S[i])): if (S[i][j] in V): print(count) (3) 12 (4) 13 (1) 0(2) 5 44. What will be the output when the following Python code is executed? for i in range(1,10): here a representation of the agents s = s + iprint(s) (1) 6(2) 14 (3) 23 (4) 33 (5) 121 **45.** Read the following sentence about website development: To make an effective website, it is important to identify its objectives and the targetA..... and then design the most useful information layout for the website accordingly. Which of the following is the correct choice for the blank A above? (1) audio (2) images (3) text (4) users (5) video

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(5) h1,h2{text-align:left; color:blue;}

(1) h1{text-align:left; color:blue;}
(2) h1,h2{text-align:left, color:blue;}
(3) h1.h2{text-align:left; color:blue;}
(4) h1:h2{text-align:left; color:blue;}

46. Which of the following is the correct example for CSS group selector?

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47. Consider the following HTML code: And the later year party and the body are later
        <!DOCTYPE html>
        <html>
        <head>
        <style>
        body : {
            background-image: url('srilanka.jpg');
        </style>
        </head>
        <body>
        <h2>Sri Lanka</h2>
        Sri Lanka, the island of serendipity, is really a <i>pearl in the
        orient</i>.
        </body>
        </html>
    Which of the following statements is/are correct about the observations when the above code is
    viewed through a web browser?
      A – The srilanka.jpg image (if existing) will be displayed as the background to the web page.
      B - The Sri Lanka word which is enclosed within <h2> and </h2> tags will appear in italics.
      C - The pearl in the orient phrase enclosed within <i> and </i> tags will appear in italics.
    (1) A only
                                       (2) B only
                                       (5) A and C only
    (4) A and B only
48. Which of the following statements is correct about the following code line when it is rendered
    through a web browser?
        <input type="radio" name="vaccinate" value="Yes">
    (1) It shows a radio button with a label named vaccinate at left side.
    (2) It shows a radio button with a label named vaccinate at right side.
    (3) It shows a radio button with a label named Yes at left side.
    (4) It shows a radio button with a label named Yes at right side.
    (5) The word Yes is not shown to user.
49. Consider the following PHP code line which is used to create a MySQL database connectivity:
                      new mysqli($var1,
                                                  $var2,
                                                             $var3.
                                                                        $var4);
    Which of the following is the correct representation for the above variables?
    (1) $var1 = database, $var2 = server name, $var3 = user name, $var4 = password
    (2) $var1 = database, $var2 = user name, $var3 = password, $var4 = server name
    (3) $var1 = server name, $var2 = database, $var3 = user name, $var4 = password
    (4) $var1 = server name, $var2 = user name, $var3 = password, $var4 = database
    (5) $var1 = user name, $var2 = password, $var3 = server name, $var4 = database
50. What would be the output when the following PHP code is executed?
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- (1) IT classes are 12-A and 12-B
- (2) IT classes are "12-A" and "12-B" and Sddd A
- (3) IT classes are 12-B and 13-A
- (5) IT classes are .12-B. and .13-B
- (4) IT classes are .12-A. and .12-B. and .14-B.

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