

BSTET

(Class 11-12)

Previous Year Paper
(Computer Science)
07 Nov, 2025 Shift 1



बिहार विद्यालय परीक्षा समिति
BIHAR SCHOOL EXAMINATION BOARD

Exam Name	STET Exam 2025
Paper	Paper II
Roll No	
Participant Name	
Test Center Name	
Test Date	07/11/2025
Test Time	9:00 AM - 11:30 AM

Section : Part I Computer Science(226)

Q.1 If a robot is able to change its own trajectory as per the external conditions, then the robot is considered as the_

Ans ☒ A. Intelligent

☐ B. Open loop

☐ C. Mobile

☐ D. Non-servo

Question Type : MCQ
Question ID : 4335766356
Option 1 ID : 43357625421
Option 2 ID : 43357625422
Option 3 ID : 43357625423
Option 4 ID : 43357625424
Status : Answered
Chosen Option : A

Q.2 Convert the Boolean function $F(A, B, C) = \Pi(0, 2, 4, 5, 7)$ to its simplified POS form

Ans ☐ A. $A + B + C$

☐ B. $A + B' + C$

☐ C. $A'B'C'$

☒ D. $(A + B)(A + C')(B + C)$

Question Type : MCQ
Question ID : 4335766040
Option 1 ID : 43357624157
Option 2 ID : 43357624158
Option 3 ID : 43357624159
Option 4 ID : 43357624160
Status : Answered
Chosen Option : D

d to define an abstract method within an abstract class?

- Ans ☒ A. abstract
- ☐ B. virtual
- ☐ C. override
- ☐ D. implement

Question Type : MCQ
Question ID : 4335766235
Option 1 ID : 43357624937
Option 2 ID : 43357624938
Option 3 ID : 43357624939
Option 4 ID : 43357624940
Status : Answered
Chosen Option : A

Q.4 The Floyd-Warshall algorithm is a popular method for solving the All-Pair Shortest Paths problem. What is the time complexity of the Floyd-Warshall algorithm for a graph with "n" vertices?

- Ans ☐ A. $O(n)$
- ☐ B. $O(n \log n)$
- ☐ C. $O(n^2)$
- ☒ D. $O(n^3)$

Question Type : MCQ
Question ID : 4335766089
Option 1 ID : 43357624353
Option 2 ID : 43357624354
Option 3 ID : 43357624355
Option 4 ID : 43357624356
Status : Answered
Chosen Option : C

Q.5 Which of the following applications include in the Strategic Computing Program?

- Ans ☐ A. Battle Management
- ☐ B. Autonomous systems
- ☐ C. Pilot's associate
- ☒ D. All of the above

Question Type : MCQ
Question ID : 4335766376
Option 1 ID : 43357625501
Option 2 ID : 43357625502
Option 3 ID : 43357625503
Option 4 ID : 43357625504
Status : Answered
Chosen Option : D

e represented using:

- Ans ☒ A. Transition table
☒ B. Transition diagram
☒ C. Instantaneous description
☒ D. All of these

Question Type : **MCQ**
Question ID : **4335766317**
Option 1 ID : **43357625265**
Option 2 ID : **43357625266**
Option 3 ID : **43357625267**
Option 4 ID : **43357625268**
Status : **Answered**
Chosen Option : **D**

Q.7 All of the following are considered biometrics, except:

- Ans ☒ A. Fingerprint
☒ B. Password
☒ C. Voice
☒ D. Retina

Question Type : **MCQ**
Question ID : **4335766398**
Option 1 ID : **43357625589**
Option 2 ID : **43357625590**
Option 3 ID : **43357625591**
Option 4 ID : **43357625592**
Status : **Answered**
Chosen Option : **B**

Q.8 To which of the following the term "DBA" referred?

- Ans ☒ A. Data Bank Administrator
☒ B. Database Administrator
☒ C. Data Administrator
☒ D. None of the above

Question Type : **MCQ**
Question ID : **4335766160**
Option 1 ID : **43357624637**
Option 2 ID : **43357624638**
Option 3 ID : **43357624639**
Option 4 ID : **43357624640**
Status : **Answered**
Chosen Option : **B**

of Modbus RTU is?

- Ans ☒ A. 19600
☒ B. 19200
☒ C. 38400
☒ D. 57600

Question Type : MCQ
Question ID : 4335766343
Option 1 ID : 43357625369
Option 2 ID : 43357625370
Option 3 ID : 43357625371
Option 4 ID : 43357625372
Status : Answered
Chosen Option : A

Q.10 The goal of synchronization mechanisms in parallel programming is to:

- Ans ☒ A. Speed up the execution of processes
☒ B. Eliminate parallelism
☒ C. Avoid deadlock situations
☒ D. Increase the number of race conditions

Question Type : MCQ
Question ID : 4335766143
Option 1 ID : 43357624569
Option 2 ID : 43357624570
Option 3 ID : 43357624571
Option 4 ID : 43357624572
Status : Answered
Chosen Option : A

Q.11 Which of the following IP addresses is valid

- Ans ☒ A. 122.94.96.212
☒ B. 212.254.258.210
☒ C. 210.10.12.156.209
☒ D. 122.294.56.68

Question Type : MCQ
Question ID : 4335768732
Option 1 ID : 43357634925
Option 2 ID : 43357634926
Option 3 ID : 43357634927
Option 4 ID : 43357634928
Status : Answered
Chosen Option : A

sed to show the spread and centers of a dataset.

- Ans ☒ A. box
- ☐ B. line
- ☐ C. bar
- ☐ D. histogram

Question Type : MCQ
Question ID : 4335766003
Option 1 ID : 43357624009
Option 2 ID : 43357624010
Option 3 ID : 43357624011
Option 4 ID : 43357624012
Status : Answered
Chosen Option : D

Q.13 How can you establish a connection between PHP and MySQL?

- Ans ☐ A. Using the "connect()" function in PHP
- ☐ B. By including a PHP library
- ☐ C. By embedding MySQL queries directly in PHP code
- ☒ D. By using the "mysqli_connect()" function in PHP

Question Type : MCQ
Question ID : 4335766278
Option 1 ID : 43357625109
Option 2 ID : 43357625110
Option 3 ID : 43357625111
Option 4 ID : 43357625112
Status : Answered
Chosen Option : D

Q.14 Which one is not a physical threat

- Ans ☒ A. Hacking
- ☐ B. Storm
- ☐ C. Fire
- ☐ D. Flood

Question Type : MCQ
Question ID : 4335766390
Option 1 ID : 43357625557
Option 2 ID : 43357625558
Option 3 ID : 43357625559
Option 4 ID : 43357625560
Status : Answered
Chosen Option : A

.....is used with wildcards.

- Ans ☒ A. LIKE
- ☐ B. IN
- ☐ C. NOT IN
- ☐ D. DISTINCT

Question Type : MCQ
Question ID : 4335765999
Option 1 ID : 43357623993
Option 2 ID : 43357623994
Option 3 ID : 43357623995
Option 4 ID : 43357623996
Status : Answered
Chosen Option : A

Q.16 What is the key advantage of using a carry-lookahead adder instead of a ripple-carry adder?

- Ans ☐ A. Simplicity of design
- ☒ B. Faster propagation delay
- ☐ C. Lower power consumption
- ☐ D. Reduced gate count

Question Type : MCQ
Question ID : 4335766039
Option 1 ID : 43357624153
Option 2 ID : 43357624154
Option 3 ID : 43357624155
Option 4 ID : 43357624156
Status : Answered
Chosen Option : B

Q.17 What is the difference between a hard disk drive and a solid-state drive?

- Ans ☒ A. A hard disk drive uses spinning disks to store data, while a solid-state drive uses flash memory to store data.
- ☐ B. A hard disk drive is slower than a solid-state drive.
- ☐ C. A hard disk drive is more durable than a solid-state drive.
- ☐ D. All of the above

Question Type : MCQ
Question ID : 4335766389
Option 1 ID : 43357625553
Option 2 ID : 43357625554
Option 3 ID : 43357625555
Option 4 ID : 43357625556
Status : Answered
Chosen Option : B

_____, a "buffer cache" is used to:

- Ans ☒ A. Store files in memory
- ☒ B. Store copies of frequently used files in memory
- ☒ C. Store the operating system kernel
- ☒ D. Store input/output devices

Question Type : MCQ
Question ID : 4335766123
Option 1 ID : 43357624489
Option 2 ID : 43357624490
Option 3 ID : 43357624491
Option 4 ID : 43357624492
Status : Answered
Chosen Option : B

Q.19 _____ are the set of rules that governs how data can be transmitted over world wide web.

- Ans ☒ A. Hyper Text Transfer Protocol
- ☒ B. Encryption Standards
- ☒ C. Cyber forensic
- ☒ D. Digital Certificates

Question Type : MCQ
Question ID : 4335766017
Option 1 ID : 43357624065
Option 2 ID : 43357624066
Option 3 ID : 43357624067
Option 4 ID : 43357624068
Status : Answered
Chosen Option : A

Q.20 Multimedia system require hard real time scheduling _____

- Ans ☒ A. to ensure critical tasks will be serviced within timing deadlines
- ☒ B. to deliver the media file to the client
- ☒ C. to minimize the delay
- ☒ D. for security

Question Type : MCQ
Question ID : 4335766402
Option 1 ID : 43357625605
Option 2 ID : 43357625606
Option 3 ID : 43357625607
Option 4 ID : 43357625608
Status : Answered
Chosen Option : A

home automation?

applications is a typical use of microcontrollers in the field of

- Ans ☒ A. Satellite communication
- ☒ B. Air traffic control
- ☒ C. Temperature and lighting control
- ☒ D. Space exploration

Question Type : MCQ
Question ID : 4335766058
Option 1 ID : 43357624229
Option 2 ID : 43357624230
Option 3 ID : 43357624231
Option 4 ID : 43357624232
Status : Answered
Chosen Option : C

Q.22 What is the purpose of SQL injection attacks?

- Ans ☒ A. To increase the performance of database queries
- ☒ B. To bypass authentication systems
- ☒ C. To improve database security
- ☒ D. To enhance data encryption

Question Type : MCQ
Question ID : 4335766280
Option 1 ID : 43357625117
Option 2 ID : 43357625118
Option 3 ID : 43357625119
Option 4 ID : 43357625120
Status : Answered
Chosen Option : B

Q.23 What is the primary purpose of data compression in data communication?

- Ans ☒ A. To increase latency
- ☒ B. To reduce bandwidth usage
- ☒ C. To decrease error rates
- ☒ D. To improve security

Question Type : MCQ
Question ID : 4335766181
Option 1 ID : 43357624721
Option 2 ID : 43357624722
Option 3 ID : 43357624723
Option 4 ID : 43357624724
Status : Answered
Chosen Option : C

variable that references an instance of a class?

- Ans ☒ A. Property
☒ B. Method
☒ C. Object
☒ D. Constructor

Question Type : MCQ
Question ID : 4335766252
Option 1 ID : 43357625005
Option 2 ID : 43357625006
Option 3 ID : 43357625007
Option 4 ID : 43357625008
Status : Answered
Chosen Option : C

Q.25 Which network device serves as the entry and exit point of a network, as all data coming in or going out of a network must first pass through it?

- Ans ☒ A. Modem
☒ B. Gateway
☒ C. Switch
☒ D. Repeater

Question Type : MCQ
Question ID : 4335766461
Option 1 ID : 43357625841
Option 2 ID : 43357625842
Option 3 ID : 43357625843
Option 4 ID : 43357625844
Status : Answered
Chosen Option : B

Q.26 Identify the correct output of the following code snippet :
game="olympic2024"
print (game. index ("C"))

- Ans ☒ A. 0
☒ B. 6
☒ C. -1
☒ D. valueError

Question Type : MCQ
Question ID : 4335766432
Option 1 ID : 43357625725
Option 2 ID : 43357625726
Option 3 ID : 43357625727
Option 4 ID : 43357625728
Status : Answered
Chosen Option : D

each internal node can have up to __ children.

- Ans ☒ A. m - 1
- ☒ B. m
- ☒ C. 2m - 1
- ☒ D. 2m

Question Type : MCQ
Question ID : 4335766095
Option 1 ID : 43357624377
Option 2 ID : 43357624378
Option 3 ID : 43357624379
Option 4 ID : 43357624380
Status : Answered
Chosen Option : A

Q.28 Which of the following is the correct expansion of SMS ?

- Ans ☒ A. Short Message Service p { font-family: Arial; }
- ☒ B. Small Multimedia Service p { fontfamily: Arial; }
- ☒ C. Short Multimedia Service p { font: Arial; }
- ☒ D. Small Message Service p { font-type: Arial; }

Question Type : MCQ
Question ID : 4335766428
Option 1 ID : 43357625709
Option 2 ID : 43357625710
Option 3 ID : 43357625711
Option 4 ID : 43357625712
Status : Answered
Chosen Option : B

Q.29 Which of the following statement (s) is/are TRUE in respect of Media Access Control (MAC) Address?

- (A) It can be changed if a node is removed from one network and connected to another network.
- (B) Each MAC address is a 12-digit hexadecimal number.
- (C) It is a unique value associated with a network adapter called NIC.
- (D) It is provided by the Internet Service Provider to locate computers connected to the internet.

Choose the correct answer from the options given below:

- Ans ☒ A. (B) and (C) only
- ☒ B. (A), (B) and (C) only
- ☒ C. (C) and (D) only
- ☒ D. (A) and (B) only

Question Type : MCQ
Question ID : 4335765996
Option 1 ID : 43357623981
Option 2 ID : 43357623982
Option 3 ID : 43357623983
Option 4 ID : 43357623984
Status : Answered
Chosen Option : A

, which constraint does not allow insertion of duplicate values in

the table ?

- Ans ☒ A. UNIQUE
☒ B. DISTINCT
☒ C. NOT NULL
☒ D. HAVING

Question Type : MCQ
Question ID : 4335766438
Option 1 ID : 43357625749
Option 2 ID : 43357625750
Option 3 ID : 43357625751
Option 4 ID : 43357625752
Status : Answered
Chosen Option : A

Q.31 Which term is used to describe the ability of different classes to be treated as objects of the same parent class?

- Ans ☒ A. Overloading
☒ B. Polymorphism
☒ C. Abstraction
☒ D. Encapsulation

Question Type : MCQ
Question ID : 4335766234
Option 1 ID : 43357624933
Option 2 ID : 43357624934
Option 3 ID : 43357624935
Option 4 ID : 43357624936
Status : Answered
Chosen Option : B

Q.32 Building blocks of a frame structure are?

- Ans ☒ A. Facts and Data
☒ B. Procedure and Default values
☒ C. Frame names
☒ D. Frame inference in hierarchy

Question Type : MCQ
Question ID : 4335766371
Option 1 ID : 43357625481
Option 2 ID : 43357625482
Option 3 ID : 43357625483
Option 4 ID : 43357625484
Status : Answered
Chosen Option : D

mory management technique where memory is divided into segments, with each segment containing:

- Ans ☒ A. Fixed-sized blocks of memory
- ☒ B. Different types of data structures
- ☒ C. Variable-sized blocks of memory
- ☒ D. Non-contiguous blocks of memory

Question Type : MCQ
Question ID : 4335766132
Option 1 ID : 43357624525
Option 2 ID : 43357624526
Option 3 ID : 43357624527
Option 4 ID : 43357624528
Status : Answered
Chosen Option : A

Q.34 About IoT, which among the followings is not correct?

- Ans ☒ A. Light sensor is analog
- ☒ B. microphone is a digital sensor
- ☒ C. Keyboard is a digital sensor
- ☒ D. Push button is a digital Sensor

Question Type : MCQ
Question ID : 4335766321
Option 1 ID : 43357625281
Option 2 ID : 43357625282
Option 3 ID : 43357625283
Option 4 ID : 43357625284
Status : Answered
Chosen Option : B

Q.35 Connected components in a graph can be found using which graph traversal algorithm?

- Ans ☒ A. DFS
- ☒ B. BFS
- ☒ C. Both DFS and BFS
- ☒ D. Neither DFS nor BFS

Question Type : MCQ
Question ID : 4335766100
Option 1 ID : 43357624397
Option 2 ID : 43357624398
Option 3 ID : 43357624399
Option 4 ID : 43357624400
Status : Answered
Chosen Option : C

tem has _____ levels?

- Ans ☒ A. 6
☒ B. 5
☒ C. 3
☒ D. 4

Question Type : MCQ
Question ID : 4335766330
Option 1 ID : 43357625317
Option 2 ID : 43357625318
Option 3 ID : 43357625319
Option 4 ID : 43357625320
Status : Answered
Chosen Option : B

Q.37 Hierarchical addressing in the Network Layer allows for:

- Ans ☒ A. More efficient use of IP addresses
☒ B. Dynamic allocation of MAC addresses
☒ C. Faster data transmission rates
☒ D. Reduced latency in data communication

Question Type : MCQ
Question ID : 4335766196
Option 1 ID : 43357624781
Option 2 ID : 43357624782
Option 3 ID : 43357624783
Option 4 ID : 43357624784
Status : Answered
Chosen Option : A

Q.38 According to Chomsky hierarchy, which of the following is recognized by Recursively Enumerable language?

- Ans ☒ A. Type 0
☒ B. Type 1
☒ C. Type 2
☒ D. Type 3

Question Type : MCQ
Question ID : 4335766311
Option 1 ID : 43357625241
Option 2 ID : 43357625242
Option 3 ID : 43357625243
Option 4 ID : 43357625244
Status : Answered
Chosen Option : D

sed to retrieve specific rows from a table?

- Ans ☒ A. SEARCH
- ☐ B. FETCH
- ☐ C. SELECT
- ☐ D. FIND

Question Type : MCQ
Question ID : 4335766282
Option 1 ID : 43357625125
Option 2 ID : 43357625126
Option 3 ID : 43357625127
Option 4 ID : 43357625128
Status : Answered
Chosen Option : C

Q.40 In conditional asymptotic notation, " $\Theta(f(n))$ if $g(n)$ " indicates that the algorithm's complexity is both upper and lower bounded by $f(n)$ when:

- Ans ☐ A. $g(n)$ is a lower bound on $f(n)$
- ☐ B. $g(n)$ is an upper bound on $f(n)$
- ☒ C. $g(n)$ is true
- ☐ D. $g(n)$ is false

Question Type : MCQ
Question ID : 4335766075
Option 1 ID : 43357624297
Option 2 ID : 43357624298
Option 3 ID : 43357624299
Option 4 ID : 43357624300
Status : Answered
Chosen Option : B

Q.41 The OSI model consists of how many layers?

- Ans ☐ A. 5
- ☐ B. 6
- ☒ C. 7
- ☐ D. 8

Question Type : MCQ
Question ID : 4335766182
Option 1 ID : 43357624725
Option 2 ID : 43357624726
Option 3 ID : 43357624727
Option 4 ID : 43357624728
Status : Answered
Chosen Option : C

e, what is a primary key?

- Ans ☐ A. A key used for opening encrypted data
- ☒ B. A unique identifier for a record in a table @
- ☐ C. A foreign key from another table
- ☐ D. An index for sorting data

Question Type : MCQ
Question ID : 4335766277
Option 1 ID : 43357625105
Option 2 ID : 43357625106
Option 3 ID : 43357625107
Option 4 ID : 43357625108
Status : Answered
Chosen Option : B

Q.43 What will be the output of the following code segment?

```
a = 5
def func_1(b=10):
    global a
    a=b-10
    b+=a
    print (a,b)
    func_1(a)
```

- Ans ☐ A. 0 5
- ☐ B. 5 0
- ☐ C. 0 -5
- ☒ D. -5 0

Question Type : MCQ
Question ID : 4335766456
Option 1 ID : 43357625821
Option 2 ID : 43357625822
Option 3 ID : 43357625823
Option 4 ID : 43357625824
Status : Answered
Chosen Option : A

Q.44 Which JavaScript method is used to add a new HTML element to the DOM?

- Ans ☐ A. appendElement()
- ☒ B. createElement()
- ☐ C. newElement()
- ☐ D. addElement()

Question Type : MCQ
Question ID : 4335766267
Option 1 ID : 43357625065
Option 2 ID : 43357625066
Option 3 ID : 43357625067
Option 4 ID : 43357625068
Status : Answered
Chosen Option : C

of firewall in network security is

- Ans ☒ A. To monitor network traffic and detect anomalies.
- ☒ B. To create virtual private networks for secure communication.
- ☒ C. To filter incoming and outgoing network traffic based on security rules
- ☒ D. To encrypt data before Transmission.

Question Type : MCQ
Question ID : 4335766478
Option 1 ID : 43357625909
Option 2 ID : 43357625910
Option 3 ID : 43357625911
Option 4 ID : 43357625912
Status : Answered
Chosen Option : C

Q.46 In AI systems, Knowledge can be represented in two ways. What are these two ways?
(i) Machine Logic
(ii) Predicate Logic
(iii) Propositional Logic
(iv) Compound Logic

- Ans ☒ A. (i) and (ii)
- ☒ B. (i) and (iii)
- ☒ C. (ii) and (iii)
- ☒ D. (iii) and (vi)

Question Type : MCQ
Question ID : 4335766368
Option 1 ID : 43357625469
Option 2 ID : 43357625470
Option 3 ID : 43357625471
Option 4 ID : 43357625472
Status : Answered
Chosen Option : B

Q.47 What is the difference between a URL and a web address?

- Ans ☒ A. A URL is a Uniform Resource Locator, while a web address is away to identify a website on the internet.
- ☒ B. A URL is a software program, while a web address is a hardware device.
- ☒ C. A URL is a physical object, while a web address is a logical object.
- ☒ D. All of the above.

Question Type : MCQ
Question ID : 4335766222
Option 1 ID : 43357624885
Option 2 ID : 43357624886
Option 3 ID : 43357624887
Option 4 ID : 43357624888
Status : Answered
Chosen Option : A

used for achieving:

- Ans ☒ A. Deadlocks
- ☒ B. Starvation
- ☒ C. Mutual exclusion and synchronization
- ☒ D. Process termination

Question Type : MCQ
Question ID : 4335766137
Option 1 ID : 43357624545
Option 2 ID : 43357624546
Option 3 ID : 43357624547
Option 4 ID : 43357624548
Status : Answered
Chosen Option : C

Q.49 In EDI, I stands for?

- Ans ☒ A. Indian
- ☒ B. India
- ☒ C. Interchange
- ☒ D. Interval

Question Type : MCQ
Question ID : 4335766396
Option 1 ID : 43357625581
Option 2 ID : 43357625582
Option 3 ID : 43357625583
Option 4 ID : 43357625584
Status : Answered
Chosen Option : C

Q.50 Which protocol provides connectionless communication with minimal overhead?

- Ans ☒ A. TCP
- ☒ B. UDP
- ☒ C. IP
- ☒ D. HTTP

Question Type : MCQ
Question ID : 4335766191
Option 1 ID : 43357624761
Option 2 ID : 43357624762
Option 3 ID : 43357624763
Option 4 ID : 43357624764
Status : Answered
Chosen Option : B

activity involves updating software to work with new hardware or software environments?

- Ans ☒ A. Corrective Maintenance
- ☒ B. Adaptive Maintenance
- ☒ C. Perfective Maintenance
- ☒ D. Preventive Maintenance

Question Type : MCQ
Question ID : 4335766225
Option 1 ID : 43357624897
Option 2 ID : 43357624898
Option 3 ID : 43357624899
Option 4 ID : 43357624900
Status : Answered
Chosen Option : B

Q.52 A formal model of protection in an operating system provides:

- Ans ☒ A. A mathematical framework for analyzing resource allocation
- ☒ B. Guidelines for designing user interfaces
- ☒ C. Methods for optimizing memory management
- ☒ D. Techniques for improving CPU utilization

Question Type : MCQ
Question ID : 4335766120
Option 1 ID : 43357624477
Option 2 ID : 43357624478
Option 3 ID : 43357624479
Option 4 ID : 43357624480
Status : Answered
Chosen Option : D

Q.53 minimum number of states required to recognize an octal number divisible by 3 are/is

- Ans ☒ A. 3
- ☒ B. 4
- ☒ C. 1
- ☒ D. 2

Question Type : MCQ
Question ID : 4335766288
Option 1 ID : 43357625149
Option 2 ID : 43357625150
Option 3 ID : 43357625151
Option 4 ID : 43357625152
Status : Answered
Chosen Option : D

ed to remove a relation from an SQL?

- Ans ☒ A. Drop table
- ☒ B. Delete
- ☒ C. Purge
- ☒ D. Remove

Question Type : MCQ
Question ID : 4335766154
Option 1 ID : 43357624613
Option 2 ID : 43357624614
Option 3 ID : 43357624615
Option 4 ID : 43357624616
Status : Answered
Chosen Option : B

Q.55 What does the term "Software Maintenance" refer to?

- Ans ☒ A. Developing new software applications
- ☒ B. Enhancing software performance
- ☒ C. Managing hardware components
- ☒ D. Modifying and updating existing software

Question Type : MCQ
Question ID : 4335766212
Option 1 ID : 43357624845
Option 2 ID : 43357624846
Option 3 ID : 43357624847
Option 4 ID : 43357624848
Status : Answered
Chosen Option : D

Q.56 The recurrence equation $T(n) = T(n/2) + T(n/3) + n$ represents the time complexity of which algorithmic paradigm?

- Ans ☒ A. Divide and Conquer
- ☒ B. Dynamic Programming
- ☒ C. Greedy Algorithms
- ☒ D. Backtracking

Question Type : MCQ
Question ID : 4335766077
Option 1 ID : 43357624305
Option 2 ID : 43357624306
Option 3 ID : 43357624307
Option 4 ID : 43357624308
Status : Answered
Chosen Option : A

arvard architecture" refer to in the context of microcontrollers?

- Ans ☒ A. A type of microcontroller with high processing speed
- ☒ B. A microcontroller architecture that uses a separate memory space for instructions and data
- ☒ C. A microcontroller with advanced addressing modes
- ☒ D. A microcontroller with a large number of I/O ports

Question Type : MCQ
Question ID : 4335766061
Option 1 ID : 43357624241
Option 2 ID : 43357624242
Option 3 ID : 43357624243
Option 4 ID : 43357624244
Status : Answered
Chosen Option : B

Q.58 Consider the statements given below and then choose the correct output from the given options :
L=['TIC' , 'TAC']
print (L[::-1])

- Ans ☒ A. ['CIT' , 'CAT']
- ☒ B. ['TIC' , 'TAC']
- ☒ C. ['CAT' , 'CIT']
- ☒ D. ['TAC' , 'TIC']

Question Type : MCQ
Question ID : 4335766435
Option 1 ID : 43357625737
Option 2 ID : 43357625738
Option 3 ID : 43357625739
Option 4 ID : 43357625740
Status : Answered
Chosen Option : A

Q.59 Which of the following is not an attribute of the tag ?

- Ans ☒ A. face
- ☒ B. height
- ☒ C. size
- ☒ D. colour

Question Type : MCQ
Question ID : 4335766469
Option 1 ID : 43357625873
Option 2 ID : 43357625874
Option 3 ID : 43357625875
Option 4 ID : 43357625876
Status : Answered
Chosen Option : B

in an OS context refers to:

- Ans ☒ A. An OS that can execute multiple programs simultaneously
- ☒ B. An OS that supports multiple users working on the same machine
- ☒ C. An OS that can only run on multiple computers
- ☒ D. An OS with a graphical user interface

Question Type : **MCQ**
Question ID : **4335766147**
Option 1 ID : **43357624585**
Option 2 ID : **43357624586**
Option 3 ID : **43357624587**
Option 4 ID : **43357624588**
Status : **Answered**
Chosen Option : **B**

Q.61 TPDU (Transport Protocol Data Unit) refers to:

- Ans ☒ A. A unit of data in the physical layer
- ☒ B. A unit of data in the data link layer
- ☒ C. A unit of data in the transport layer
- ☒ D. A unit of data in the network layer

Question Type : **MCQ**
Question ID : **4335766192**
Option 1 ID : **43357624765**
Option 2 ID : **43357624766**
Option 3 ID : **43357624767**
Option 4 ID : **43357624768**
Status : **Answered**
Chosen Option : **C**

Q.62 A* search algorithm is based on?

- Ans ☒ A. BFS
- ☒ B. DFS
- ☒ C. Uniform cost search
- ☒ D. Best first Search

Question Type : **MCQ**
Question ID : **4335766364**
Option 1 ID : **43357625453**
Option 2 ID : **43357625454**
Option 3 ID : **43357625455**
Option 4 ID : **43357625456**
Status : **Answered**
Chosen Option : **A**

urpose of using Don't Care conditions in Karnaugh Map

simplification?

- Ans ☒ A. To mark cells that should not be included in the simplification process
- ☒ B. To indicate cells that have an undefined logic value
- ☒ C. To identify cells that are already in their simplest form
- ☒ D. To mark cells with special logic functions

Question Type : MCQ
Question ID : 4335766063
Option 1 ID : 43357624249
Option 2 ID : 43357624250
Option 3 ID : 43357624251
Option 4 ID : 43357624252
Status : Answered
Chosen Option : A

Q.64 Which among the followins is not a type of Zigbee Device?

- Ans ☒ A. Zigbee Coordinator device
- ☒ B. Zigbee Router
- ☒ C. Zigbee start device
- ☒ D. Zigbee end device

Question Type : MCQ
Question ID : 4335766336
Option 1 ID : 43357625341
Option 2 ID : 43357625342
Option 3 ID : 43357625343
Option 4 ID : 43357625344
Status : Answered
Chosen Option : A

Q.65 Zigbee is a task group in-----

- Ans ☒ A. LAN
- ☒ B. PAN
- ☒ C. MAN
- ☒ D. WAN

Question Type : MCQ
Question ID : 4335766335
Option 1 ID : 43357625337
Option 2 ID : 43357625338
Option 3 ID : 43357625339
Option 4 ID : 43357625340
Status : Answered
Chosen Option : A

ee, the space required for threads is usually:

- Ans ☒ A. Greater than the space required for regular pointers
- ☒ B. Equal to the space required for regular pointers
- ☒ C. Less than the space required for regular pointers
- ☒ D. Unpredictable

Question Type : MCQ
Question ID : 4335766097
Option 1 ID : 43357624385
Option 2 ID : 43357624386
Option 3 ID : 43357624387
Option 4 ID : 43357624388
Status : Answered
Chosen Option : C

Q.67 Given the Boolean expression $F(A, B, C, D) = \Sigma(0, 1, 2, 3, 8, 9, 10, 11)$, what is the simplified expression using the algebraic method?

- Ans ☒ A. $A + B + C + D$
- ☒ B. $AB + AC + AD + BC + BD + CD$
- ☒ C. $AB + CD$
- ☒ D. $A'BC'D + ABC'D + A'BCD + ABCD$

Question Type : MCQ
Question ID : 4335766047
Option 1 ID : 43357624185
Option 2 ID : 43357624186
Option 3 ID : 43357624187
Option 4 ID : 43357624188
Status : Answered
Chosen Option : C

Q.68 Which model considers risk assessment and incremental development in software projects?

- Ans ☒ A. Waterfall Model
- ☒ B. Agile Model
- ☒ C. Prototype Model
- ☒ D. Spiral Model

Question Type : MCQ
Question ID : 4335766220
Option 1 ID : 43357624877
Option 2 ID : 43357624878
Option 3 ID : 43357624879
Option 4 ID : 43357624880
Status : Answered
Chosen Option : D

expression in SQL would calculate the square root of 16?

- Ans ☒ A. POWER (16,2)
☒ B. POWER (16, 0.5)
☒ C. POWER (16, 1)
☒ D. MOD (16)

Question Type : MCQ
Question ID : 4335765995
Option 1 ID : 43357623977
Option 2 ID : 43357623978
Option 3 ID : 43357623979
Option 4 ID : 43357623980
Status : Answered
Chosen Option : B

Q.70 A relation in a relational database is also known as:

- Ans ☒ A. A data type
☒ B. An attribute
☒ C. A schema
☒ D. A table

Question Type : MCQ
Question ID : 4335765994
Option 1 ID : 43357623973
Option 2 ID : 43357623974
Option 3 ID : 43357623975
Option 4 ID : 43357623976
Status : Answered
Chosen Option : D

Q.71 A Database Management System is a type of _____ software.

- Ans ☒ A. It is a type of system software
☒ B. It is a kind of application software
☒ C. It is a kind of general software
☒ D. Both A and C

Question Type : MCQ
Question ID : 4335766157
Option 1 ID : 43357624625
Option 2 ID : 43357624626
Option 3 ID : 43357624627
Option 4 ID : 43357624628
Status : Answered
Chosen Option : B

ces more than one parse tree for the same sentence is called

- Ans ☒ A. Contiguous
☒ B. Ambiguous
☒ C. Unambiguous
☒ D. Regular

Question Type : MCQ
Question ID : 4335766301
Option 1 ID : 43357625201
Option 2 ID : 43357625202
Option 3 ID : 43357625203
Option 4 ID : 43357625204
Status : Answered
Chosen Option : A

Q.73 Which traversal technique is used to visit each node of a linked list exactly once?

- Ans ☒ A. Preorder traversal
☒ B. Inorder traversal
☒ C. Postorder traversal
☒ D. Linear traversal

Question Type : MCQ
Question ID : 4335766111
Option 1 ID : 43357624441
Option 2 ID : 43357624442
Option 3 ID : 43357624443
Option 4 ID : 43357624444
Status : Answered
Chosen Option : D

Q.74 Which of the following is not a Search Engine available over the Internet ?

- Ans ☒ A. Google
☒ B. Bing
☒ C. Diksha
☒ D. Yahoo

Question Type : MCQ
Question ID : 4335766426
Option 1 ID : 43357625701
Option 2 ID : 43357625702
Option 3 ID : 43357625703
Option 4 ID : 43357625704
Status : Answered
Chosen Option : C

nents are used to implement the combinational logic functions?

- Ans ☒ A. AND gates and OR gates
- ☒ B. NAND gates and XOR gates
- ☒ C. NOR gates and XNOR gates
- ☒ D. NOT gates and multiplexers

Question Type : MCQ
Question ID : 4335766034
Option 1 ID : 43357624133
Option 2 ID : 43357624134
Option 3 ID : 43357624135
Option 4 ID : 43357624136
Status : Answered
Chosen Option : A

Q.76 Which protocol is used for sending emails?

- Ans ☒ A. HTTP
- ☒ B. FTP
- ☒ C. SMTP
- ☒ D. SNMP

Question Type : MCQ
Question ID : 4335766178
Option 1 ID : 43357624709
Option 2 ID : 43357624710
Option 3 ID : 43357624711
Option 4 ID : 43357624712
Status : Answered
Chosen Option : C

Q.77are the unorganized facts that can be processed to generate meaningful information.

- Ans ☒ A. Information
- ☒ B. Data
- ☒ C. Blog
- ☒ D. contexts

Question Type : MCQ
Question ID : 4335765993
Option 1 ID : 43357623969
Option 2 ID : 43357623970
Option 3 ID : 43357623971
Option 4 ID : 43357623972
Status : Answered
Chosen Option : B

wing resource is not necessarily required on a file server?

- Ans ☒ A. secondary storage
- ☒ B. processor
- ☒ C. network
- ☒ D. monitor

Question Type : MCQ
Question ID : 4335766403
Option 1 ID : 43357625609
Option 2 ID : 43357625610
Option 3 ID : 43357625611
Option 4 ID : 43357625612
Status : Answered
Chosen Option : D

Q.79 The letter S in the abbreviation HTTPS in context of Networking protocols, stands for :

- Ans ☒ A. Single
- ☒ B. Static
- ☒ C. Secure
- ☒ D. Sensitive

Question Type : MCQ
Question ID : 4335766465
Option 1 ID : 43357625857
Option 2 ID : 43357625858
Option 3 ID : 43357625859
Option 4 ID : 43357625860
Status : Answered
Chosen Option : C

Q.80 Which version control system is commonly used for collaborative web development projects?

- Ans ☒ A. SVN
- ☒ B. Git
- ☒ C. Mercurial
- ☒ D. CVS

Question Type : MCQ
Question ID : 4335766259
Option 1 ID : 43357625033
Option 2 ID : 43357625034
Option 3 ID : 43357625035
Option 4 ID : 43357625036
Status : Answered
Chosen Option : C

s for?

- Ans ☒ A. Data file diagram
- ☒ B. Data flow document
- ☒ C. Data flow diagram
- ☒ D. None of the above

Question Type : MCQ
Question ID : 4335766162
Option 1 ID : 43357624645
Option 2 ID : 43357624646
Option 3 ID : 43357624647
Option 4 ID : 43357624648
Status : Answered
Chosen Option : C

Q.82 Which symbol is used to define the start and end of XML tags?

- Ans ☒ A.
- ☒ B. {}
- ☒ C. []
- ☒ D. ()

Question Type : MCQ
Question ID : 4335766268
Option 1 ID : 43357625069
Option 2 ID : 43357625070
Option 3 ID : 43357625071
Option 4 ID : 43357625072
Status : Answered
Chosen Option : A

Q.83 What is the full form of FTP ?

- Ans ☒ A. File Transfer Protocol
- ☒ B. File Transmission Protocol
- ☒ C. Fast Transfer Protocol
- ☒ D. Fast Transmission Protocol

Question Type : MCQ
Question ID : 4335766422
Option 1 ID : 43357625685
Option 2 ID : 43357625686
Option 3 ID : 43357625687
Option 4 ID : 43357625688
Status : Answered
Chosen Option : A

d by Push down Automaton:

- Ans ☒ A. Recursive Language
- ☒ B. Context free language
- ☒ C. Linearly Bounded language
- ☒ D. All of the mentioned

Question Type : MCQ
Question ID : 4335766302
Option 1 ID : 43357625205
Option 2 ID : 43357625206
Option 3 ID : 43357625207
Option 4 ID : 43357625208
Status : Answered
Chosen Option : D

Q.85 What is an encryption system that uses two keys: a public key that everyone can have and a private key for only the recipient?

- Ans ☒ A. Encryption
- ☒ B. IDS
- ☒ C. Security Audit software
- ☒ D. Public key Encryption

Question Type : MCQ
Question ID : 4335766397
Option 1 ID : 43357625585
Option 2 ID : 43357625586
Option 3 ID : 43357625587
Option 4 ID : 43357625588
Status : Answered
Chosen Option : B

Q.86 Let $u = '1101'$, $v = '0001'$, then $uv = 11010001$ and $vu = 00011101$. Using the given information what is the identity element for the string?

- Ans ☒ A. u^{-1}
- ☒ B. v^{-1}
- ☒ C. $u^{-1}v^{-1}$
- ☒ D. ϵ

Question Type : MCQ
Question ID : 4335766292
Option 1 ID : 43357625165
Option 2 ID : 43357625166
Option 3 ID : 43357625167
Option 4 ID : 43357625168
Status : Answered
Chosen Option : D

d to create an instance of a class in most programming

languages?

- Ans ☒ A. alloc
☒ B. new
☒ C. create
☒ D. instance

Question Type : MCQ
Question ID : 4335766229
Option 1 ID : 43357624913
Option 2 ID : 43357624914
Option 3 ID : 43357624915
Option 4 ID : 43357624916
Status : Answered
Chosen Option : B

Q.88 Which of the following is known as a set of entities of the same type that share same properties, or attributes?

- Ans ☒ A. Relation set
☒ B. Tuples
☒ C. Entity set
☒ D. Entity Relation model

Question Type : MCQ
Question ID : 4335766151
Option 1 ID : 43357624601
Option 2 ID : 43357624602
Option 3 ID : 43357624603
Option 4 ID : 43357624604
Status : Answered
Chosen Option : D

Q.89 What is the time complexity of Merge Sort for sorting an array of size "n"?

- Ans ☒ A. $O(n)$
☒ B. $O(\log n)$
☒ C. $O(n \log n)$
☒ D. $O(n^2)$

Question Type : MCQ
Question ID : 4335766093
Option 1 ID : 43357624369
Option 2 ID : 43357624370
Option 3 ID : 43357624371
Option 4 ID : 43357624372
Status : Answered
Chosen Option : C

of RFID module is?

- Ans ☒ A. 10 CM
- ☒ B. 5 CM
- ☒ C. 15 CM
- ☒ D. 2 CM

Question Type : MCQ
Question ID : 4335766334
Option 1 ID : 43357625333
Option 2 ID : 43357625334
Option 3 ID : 43357625335
Option 4 ID : 43357625336
Status : Answered
Chosen Option : A

Q.91 Which type of register is primarily used to temporarily hold data during arithmetic and logical operations in a microprocessor?

- Ans ☒ A. Shift register
- ☒ B. Parallel register
- ☒ C. Accumulator register
- ☒ D. Counter register

Question Type : MCQ
Question ID : 4335766036
Option 1 ID : 43357624141
Option 2 ID : 43357624142
Option 3 ID : 43357624143
Option 4 ID : 43357624144
Status : Answered
Chosen Option : C

Q.92 Safeguards in an operating system are mechanisms used to:

- Ans ☒ A. Ensure the efficient utilization of CPU time
- ☒ B. Prevent data loss during power outages
- ☒ C. Enhance the performance of I/O operations
- ☒ D. Protect against unauthorized access and security breaches

Question Type : MCQ
Question ID : 4335766121
Option 1 ID : 43357624481
Option 2 ID : 43357624482
Option 3 ID : 43357624483
Option 4 ID : 43357624484
Status : Answered
Chosen Option : D

is a service for real-time text communication on the internet ?

- Ans ☒ A. e-Learning
☒ B. FTP
☒ C. Video conferencing
☒ D. Chat

Question Type : MCQ
Question ID : 4335766018
Option 1 ID : 43357624069
Option 2 ID : 43357624070
Option 3 ID : 43357624071
Option 4 ID : 43357624072
Status : Answered
Chosen Option : D

Q.94 If the dictionary D1 is defined as:
D1 = {1: 'a', 2: 'b'}
then which of the following statements is incorrect and hence will result in an error?

- Ans ☒ A. D1 . get (1)
☒ B. D1 . get (3)
☒ C. D1 .del (1)
☒ D. D1 . clear (1)

Question Type : MCQ
Question ID : 4335766453
Option 1 ID : 43357625809
Option 2 ID : 43357625810
Option 3 ID : 43357625811
Option 4 ID : 43357625812
Status : Answered
Chosen Option : B

Q.95 Telnet is commonly used for:

- Ans ☒ A. Secure file transfers
☒ B. Remote terminal access
☒ C. Web browsing
☒ D. Email communication

Question Type : MCQ
Question ID : 4335766194
Option 1 ID : 43357624773
Option 2 ID : 43357624774
Option 3 ID : 43357624775
Option 4 ID : 43357624776
Status : Answered
Chosen Option : B

olves storing collided elements in separate data structures,

typically in:

- Ans ☒ A. Linked lists
- ☒ B. Arrays
- ☒ C. Stacks
- ☒ D. Queues

Question Type : MCQ
Question ID : 4335766106
Option 1 ID : 43357624421
Option 2 ID : 43357624422
Option 3 ID : 43357624423
Option 4 ID : 43357624424
Status : Answered
Chosen Option : A

Q.97 PDA can be represented with the help of

- Ans ☒ A. Instantaneous description
- ☒ B. Transition diagram
- ☒ C. Transition table
- ☒ D. All of these

Question Type : MCQ
Question ID : 4335766303
Option 1 ID : 43357625209
Option 2 ID : 43357625210
Option 3 ID : 43357625211
Option 4 ID : 43357625212
Status : Answered
Chosen Option : D

Q.98 Which Karnaugh Map simplification technique involves grouping cells that are not adjacent but share a common variable value?

- Ans ☒ A. Pair simplification
- ☒ B. Quad simplification
- ☒ C. Octet simplification
- ☒ D. Group simplification

Question Type : MCQ
Question ID : 4335766064
Option 1 ID : 43357624253
Option 2 ID : 43357624254
Option 3 ID : 43357624255
Option 4 ID : 43357624256
Status : Answered
Chosen Option : D

is/ are components of Expert Systems?

- Ans ☒ A. Knowledge Base
- ☒ B. Inference logic
- ☒ C. User Interface
- ☒ D. All of the above

Question Type : MCQ
Question ID : 4335766377
Option 1 ID : 43357625505
Option 2 ID : 43357625506
Option 3 ID : 43357625507
Option 4 ID : 43357625508
Status : Answered
Chosen Option : D

Q.10 Arrange the following electromagnetic waves in increasing order of their frequency range.

- (A) Microwaves
(B) Infrared Waves
(C) Light Waves
(D) Radio Waves

Choose the correct answer from the options given below :

- Ans ☒ A. (A), (C), (D), (B)
- ☒ B. (D), (C), (B), (A)
- ☒ C. (B), (A), (D), (C)
- ☒ D. (D), (A), (B), (C)

Question Type : MCQ
Question ID : 4335766013
Option 1 ID : 43357624049
Option 2 ID : 43357624050
Option 3 ID : 43357624051
Option 4 ID : 43357624052
Status : Answered
Chosen Option : C

Section : Part II

Q.10 The mirror of the Society is:

- Ans ☒ A. playground
- ☒ B. community
- ☒ C. Hospital
- ☒ D. School

Question Type : MCQ
Question ID : 4335764203
Option 1 ID : 43357616809
Option 2 ID : 43357616810
Option 3 ID : 43357616811
Option 4 ID : 43357616812
Status : Answered
Chosen Option : B

s in taxonomies of educational objective is

2

- Ans ☒ A. Two
- ☒ B. Three
- ☒ C. Five
- ☒ D. Six

Question Type : **MCQ**
Question ID : **4335763524**
Option 1 ID : **43357614093**
Option 2 ID : **43357614094**
Option 3 ID : **43357614095**
Option 4 ID : **43357614096**
Status : **Answered**
Chosen Option : **B**

Q.10 Who has developed the 'Guidelines on information literacy for lifelong learning?

3

- Ans ☒ A. RUSA
- ☒ B. ACRL
- ☒ C. SCONUL
- ☒ D. IFLA

Question Type : **MCQ**
Question ID : **4335763922**
Option 1 ID : **43357615685**
Option 2 ID : **43357615686**
Option 3 ID : **43357615687**
Option 4 ID : **43357615688**
Status : **Answered**
Chosen Option : **A**

Q.10 Which type of lesson plan is simple and straightforward?

4

- Ans ☒ A. Daily lesson plan
- ☒ B. Weekly lesson plan
- ☒ C. Sequential lesson plans
- ☒ D. Monthly lesson plan

Question Type : **MCQ**
Question ID : **4335763698**
Option 1 ID : **43357614789**
Option 2 ID : **43357614790**
Option 3 ID : **43357614791**
Option 4 ID : **43357614792**
Status : **Answered**
Chosen Option : **C**

simple way of teaching a lesson is to proceed from

- 5 Statement I. something that the students already know
Statement II. those facts which are unknown to the learners
Statement III. Examples
Statement IV. Illustrations
Choose the correct option:-

Ans ☒ A. I, III and IV
☒ B. Only I
☒ C. Only II
☒ D. III and IV

Question Type : MCQ
Question ID : 4335763424
Option 1 ID : 43357613693
Option 2 ID : 43357613694
Option 3 ID : 43357613695
Option 4 ID : 43357613696
Status : Answered
Chosen Option : A

Q.10 Which one of the following options best describes progressive education?
6

Ans ☒ A. Learning by doing, project method, cooperative learning
☒ B. Thematic units, regular unit tests, ranking
☒ C. Personalized learning, ability grouping, labelling students
☒ D. Project method, ability grouping, ranking

Question Type : MCQ
Question ID : 4335763916
Option 1 ID : 43357615661
Option 2 ID : 43357615662
Option 3 ID : 43357615663
Option 4 ID : 43357615664
Status : Answered
Chosen Option : A

Q.10 In M.C.Q the correct option is:
7

Ans ☒ A. Response
☒ B. Answer
☒ C. Distractors
☒ D. None of these

Question Type : MCQ
Question ID : 4335764162
Option 1 ID : 43357616645
Option 2 ID : 43357616646
Option 3 ID : 43357616647
Option 4 ID : 43357616648
Status : Answered
Chosen Option : B

is a sign of motivated teaching?

8

- Ans ☒ A. Maximum presence of students in the class
- ☒ B. Asking questions by students
- ☒ C. Pin drop silence in the class
- ☒ D. Complition of home assignment

Question Type : MCQ
Question ID : 4335763620
Option 1 ID : 43357614477
Option 2 ID : 43357614478
Option 3 ID : 43357614479
Option 4 ID : 43357614480
Status : Answered
Chosen Option : D

Q.10 In M.C.Qs the statement of the problem is:
9

- Ans ☒ A. Option
- ☒ B. Distractor
- ☒ C. Premise
- ☒ D. Stem

Question Type : MCQ
Question ID : 4335764161
Option 1 ID : 43357616641
Option 2 ID : 43357616642
Option 3 ID : 43357616643
Option 4 ID : 43357616644
Status : Answered
Chosen Option : A

Q.11 The stage in problem solving that includes the preparation of suitable hypothesis for
0 investigation.

- Ans ☒ A. Survey
- ☒ B. Planning for action
- ☒ C. Problem description
- ☒ D. Discussion

Question Type : MCQ
Question ID : 4335763584
Option 1 ID : 43357614333
Option 2 ID : 43357614334
Option 3 ID : 43357614335
Option 4 ID : 43357614336
Status : Answered
Chosen Option : A

- ut friction, a teacher gave a number of examples to explain the
- 1 concept. Some of the examples where friction is useful in our day-to-day life as-quoted by the teacher are given below.
- I. We are able to write because of friction between the tip of the pen and the paper.
II. We are able to walk because of friction between our feet and the ground.
III. A ball thrown vertically upwards comes back to us due to friction.
IV. We are able to stop a moving vehicle by applying brakes because of friction.
The correct examples were

Ans ☒ A. III, IV and I
☒ B. IV, I and II
☒ C. I, III and IV
☒ D. II, III and IV

Question Type : MCQ
Question ID : 4335763630
Option 1 ID : 43357614517
Option 2 ID : 43357614518
Option 3 ID : 43357614519
Option 4 ID : 43357614520
Status : Answered
Chosen Option : B

Q.11 Having variety of question sets in a question paper increases it _____
2

Ans ☒ A. Objectivity
☒ B. Reliability
☒ C. Validity
☒ D. Difficulty

Question Type : MCQ
Question ID : 4335764289
Option 1 ID : 43357617153
Option 2 ID : 43357617154
Option 3 ID : 43357617155
Option 4 ID : 43357617156
Status : Answered
Chosen Option : B

Q.11 If you join a teacher fraternity and choose to dress like most of the others in your
3 group, you are exhibiting-

Ans ☒ A. group identity
☒ B. group obedience
☒ C. group compliance
☒ D. group conformity

Question Type : MCQ
Question ID : 4335763938
Option 1 ID : 43357615749
Option 2 ID : 43357615750
Option 3 ID : 43357615751
Option 4 ID : 43357615752
Status : Answered
Chosen Option : D

r constructing a test ?

4

- Ans ☐ A. Planning and preparing the test
- ☐ B. Try Out the test
- ☐ C. Evaluating the test
- ☒ D. All of these

Question Type : **MCQ**
Question ID : **4335764081**
Option 1 ID : **43357616321**
Option 2 ID : **43357616322**
Option 3 ID : **43357616323**
Option 4 ID : **43357616324**
Status : **Answered**
Chosen Option : **D**

Q.11 Continuous and Comprehensive evaluation was initiated by:
5

- Ans ☐ A. NCTE
- ☐ B. CBSE
- ☒ C. NCERT
- ☐ D. SCERT

Question Type : **MCQ**
Question ID : **4335764080**
Option 1 ID : **43357616317**
Option 2 ID : **43357616318**
Option 3 ID : **43357616319**
Option 4 ID : **43357616320**
Status : **Answered**
Chosen Option : **C**

Q.11 Learning is generally considered as a permanent change in behavior' based on
6

- Ans ☒ A. Practice and experience.
- ☐ B. Practice and challenge.
- ☐ C. Challenge and experience.
- ☐ D. Challenge and reinforcement.

Question Type : **MCQ**
Question ID : **4335763388**
Option 1 ID : **43357613549**
Option 2 ID : **43357613550**
Option 3 ID : **43357613551**
Option 4 ID : **43357613552**
Status : **Answered**
Chosen Option : **A**

discussion method is

7

- Ans ☒ A. Ensure maximum participation
- ☒ B. Students have the opportunity to criticize and evaluate.
- ☒ C. Logical and meaningful criticism should be accepted
- ☒ D. All of them

Question Type : MCQ
Question ID : 4335763798
Option 1 ID : 43357615189
Option 2 ID : 43357615190
Option 3 ID : 43357615191
Option 4 ID : 43357615192
Status : Answered
Chosen Option : D

Q.11 Which of the following teaching method is focused on the development of creative
8 minds?

- Ans ☒ A. Project
- ☒ B. Brain storming
- ☒ C. Observation
- ☒ D. Demonstration

Question Type : MCQ
Question ID : 4335764309
Option 1 ID : 43357617233
Option 2 ID : 43357617234
Option 3 ID : 43357617235
Option 4 ID : 43357617236
Status : Answered
Chosen Option : B

Q.11 Which type of lesson plan is concise and focused on specific concepts or skills?
9

- Ans ☒ A. Sequential lesson plans
- ☒ B. Weekly lesson plan
- ☒ C. Daily lesson plan
- ☒ D. Monthly lesson plan

Question Type : MCQ
Question ID : 4335763695
Option 1 ID : 43357614777
Option 2 ID : 43357614778
Option 3 ID : 43357614779
Option 4 ID : 43357614780
Status : Answered
Chosen Option : A

boosts student engagement and motivation through

0

- Ans ☒ A. Constructivist approach
- ☒ B. Humanistic approach
- ☒ C. Naturalistic approach
- ☒ D. Pragmatist approach

Question Type : MCQ
Question ID : 4335763719
Option 1 ID : 43357614873
Option 2 ID : 43357614874
Option 3 ID : 43357614875
Option 4 ID : 43357614876
Status : Answered
Chosen Option : B

Q.12 The part of the curriculum designed to meet the needs of all students is:
1

- Ans ☒ A. General education
- ☒ B. Specialized education
- ☒ C. The extra-curriculum
- ☒ D. The program of studies

Question Type : MCQ
Question ID : 4335764231
Option 1 ID : 43357616921
Option 2 ID : 43357616922
Option 3 ID : 43357616923
Option 4 ID : 43357616924
Status : Answered
Chosen Option : A

Q.12 To demonstrate success by focusing on the learner's desired outcome, a reasonable
2 list of _____ objectives should be provided.

- Ans ☒ A. Informational
- ☒ B. Mastery
- ☒ C. Challenging
- ☒ D. General

Question Type : MCQ
Question ID : 4335763509
Option 1 ID : 43357614033
Option 2 ID : 43357614034
Option 3 ID : 43357614035
Option 4 ID : 43357614036
Status : Answered
Chosen Option : A

nd demonstration lessons, which one of the following is not

3 true?

- Ans ☒ A. Slow children derive benefit from a lecture than brighter one
- ☒ B. There are more activities for the students in a demonstration lesson
- ☒ C. The lecture method is more conducive and useful for larger group
- ☒ D. It is difficult to ascertain students' learning in a lecture session

Question Type : MCQ
Question ID : 4335764001
Option 1 ID : 43357616001
Option 2 ID : 43357616002
Option 3 ID : 43357616003
Option 4 ID : 43357616004
Status : Answered
Chosen Option : B

Q.12 Which one of the following is the duty of a class teacher?
4

- Ans ☒ A. Check the books, exercise books and bages of the students suddenly
- ☒ B. Check the lunch boxes of the students and advise them to take healthy food
- ☒ C. Check cleanliness of the class
- ☒ D. All of these

Question Type : MCQ
Question ID : 4335764048
Option 1 ID : 43357616189
Option 2 ID : 43357616190
Option 3 ID : 43357616191
Option 4 ID : 43357616192
Status : Answered
Chosen Option : D

Q.12 The most expected immediate outcome of teaching is-
5

- Ans ☒ A. Changes in the behavior of students in a desirable direction.
- ☒ B. Development of the total personality of students.
- ☒ C. Building characters of the students.
- ☒ D. Getting selected for a suitable job.

Question Type : MCQ
Question ID : 4335763471
Option 1 ID : 43357613881
Option 2 ID : 43357613882
Option 3 ID : 43357613883
Option 4 ID : 43357613884
Status : Answered
Chosen Option : A

6

er, one should consider student's:

- Ans ☒ A. I.Q
- ☐ B. Class
- ☐ C. Health
- ☐ D. Physical age

Question Type : MCQ
Question ID : 4335764233
Option 1 ID : 43357616929
Option 2 ID : 43357616930
Option 3 ID : 43357616931
Option 4 ID : 43357616932
Status : Answered
Chosen Option : A

Q.12 Micro teaching was first adopted at Stanford University by
7

- Ans ☐ A. Stephen M Corey
- ☒ B. Dwight W Allen
- ☐ C. John Dewey
- ☐ D. Arthur Cunningham

Question Type : MCQ
Question ID : 4335763746
Option 1 ID : 43357614981
Option 2 ID : 43357614982
Option 3 ID : 43357614983
Option 4 ID : 43357614984
Status : Answered
Chosen Option : B

Q.12 Introduce a problem that students might not be able to solve yet is an example of
8

- Ans ☐ A. Explore
- ☒ B. Engage
- ☐ C. Explain
- ☐ D. Elaborate

Question Type : MCQ
Question ID : 4335763721
Option 1 ID : 43357614881
Option 2 ID : 43357614882
Option 3 ID : 43357614883
Option 4 ID : 43357614884
Status : Answered
Chosen Option : A

- Ans ☒ A. Sheltered Intervention Observation Protocol
- ☒ B. Sheltered Instruction Observation Protocol
- ☒ C. Sheltered Instruction Objection Protocol
- ☒ D. Sheltered Intervention Objection Protocol

Question Type : MCQ
Question ID : 4335763843
Option 1 ID : 43357615369
Option 2 ID : 43357615370
Option 3 ID : 43357615371
Option 4 ID : 43357615372
Status : Answered
Chosen Option : B

Q.13 Which one of the following is the most suitable to improve children's learning?
0

- Ans ☒ A. Regular assessment test should be conducted.
- ☒ B. Teacher should explain the content using different examples and illustrations.
- ☒ C. All types of learning material should be there in the class.
- ☒ D. Teacher should facilitate children to interact with each other on real-life situations.

Question Type : MCQ
Question ID : 4335763935
Option 1 ID : 43357615737
Option 2 ID : 43357615738
Option 3 ID : 43357615739
Option 4 ID : 43357615740
Status : Answered
Chosen Option : B

Section : Part III

Q.13 Which one among the following is NOT a major oil field located in Gujarat?
1

- Ans ☒ A. Ankaleshwar
- ☒ B. Kosamba
- ☒ C. Mehsana
- ☒ D. Moran

Question Type : MCQ
Question ID : 4335764402
Option 1 ID : 43357617605
Option 2 ID : 43357617606
Option 3 ID : 43357617607
Option 4 ID : 43357617608
Status : Answered
Chosen Option : C

ing is the author of the book 'The Indian Struggle 1920 - 1942' ?

2

- Ans ☒ A. Vinayak Damodar Savarkar
- ☒ B. Subhas Chandra Bose
- ☒ C. Vallabhbhai Patel
- ☒ D. Sarat Chandra Bose

Question Type : MCQ
Question ID : 4335764447
Option 1 ID : 43357617785
Option 2 ID : 43357617786
Option 3 ID : 43357617787
Option 4 ID : 43357617788
Status : Answered
Chosen Option : B

Q.13 7 is to 34 as 5 is to ?
3

- Ans ☒ A. 33
- ☒ B. 24
- ☒ C. 54
- ☒ D. 41

Question Type : MCQ
Question ID : 4335764951
Option 1 ID : 43357619801
Option 2 ID : 43357619802
Option 3 ID : 43357619803
Option 4 ID : 43357619804
Status : Answered
Chosen Option : B

Q.13 Chronologically arrange the following political events related to Indian National

- 4 Movement beginning from the earliest :
1. Formation of Swaraj Party
 2. Communal Award
 3. Lucknow Pact
 4. Simla Conference
- Select the correct answer from the given options:

- Ans ☒ A. 3, 1, 2, 4
- ☒ B. 1, 3, 2, 4
- ☒ C. 2, 1, 4, 3
- ☒ D. 1, 2, 3, 4

Question Type : MCQ
Question ID : 4335764343
Option 1 ID : 43357617369
Option 2 ID : 43357617370
Option 3 ID : 43357617371
Option 4 ID : 43357617372
Status : Answered
Chosen Option : A

solution of 1st January 2015, the NITI Aayog consists of :

- 5
1. Prime Minister of India
 2. Governing Council comprising of Chief Minister of all the States and Lieutenant Governors of Union Territories
 3. Rural Development Minister
 4. Chief Executive Officer to be appointed by the Prime Minister
- Select the correct answer from the given options :

Ans ☒ A. 1, 2 and 3
☒ B. 1, 2 and 4
☒ C. 1 and 2 only
☒ D. 3 and 4 only

Question Type : MCQ
Question ID : 4335764474
Option 1 ID : 43357617893
Option 2 ID : 43357617894
Option 3 ID : 43357617895
Option 4 ID : 43357617896
Status : Answered
Chosen Option : B

Q.13 Which nutrient protects us from diseases?
6

Ans ☒ A. Vitamin and minerals
☒ B. Fats and carbohydrates
☒ C. Protein
☒ D. All of these

Question Type : MCQ
Question ID : 4335764553
Option 1 ID : 43357618209
Option 2 ID : 43357618210
Option 3 ID : 43357618211
Option 4 ID : 43357618212
Status : Answered
Chosen Option : A

Q.13 In the given letter series what letter will come in place of the question Symbol.
7

DIL, GLO, JOR, ?

Ans ☒ A. MRV
☒ B. MRQ
☒ C. MRU
☒ D. NRO

Question Type : MCQ
Question ID : 4335764868
Option 1 ID : 43357619469
Option 2 ID : 43357619470
Option 3 ID : 43357619471
Option 4 ID : 43357619472
Status : Answered
Chosen Option : C

8

the Husband of B. B is the sister of D. Tell how A is related to D?

- Ans ☒ A. Uncle
- ☒ B. Brother-in-Law
- ☒ C. Niece
- ☒ D. Son

Question Type : MCQ
Question ID : 4335764903
Option 1 ID : 43357619609
Option 2 ID : 43357619610
Option 3 ID : 43357619611
Option 4 ID : 43357619612
Status : Answered
Chosen Option : B

Q.13 The joint between separate faces of a solid is called an.....
9

- Ans ☒ A. edge
- ☒ B. face
- ☒ C. vertex
- ☒ D. None of these

Question Type : MCQ
Question ID : 4335764681
Option 1 ID : 43357618721
Option 2 ID : 43357618722
Option 3 ID : 43357618723
Option 4 ID : 43357618724
Status : Answered
Chosen Option : A

Q.14 Which is the longest National Highway in India?
0

- Ans ☒ A. NH 5
- ☒ B. NH44
- ☒ C. NH10
- ☒ D. NH 15

Question Type : MCQ
Question ID : 4335764603
Option 1 ID : 43357618409
Option 2 ID : 43357618410
Option 3 ID : 43357618411
Option 4 ID : 43357618412
Status : Answered
Chosen Option : B

7 g and Ron weighs 32 kg 458 g. Who weighs less and by how

1 much?

- Ans ☒ A. Ron weighs less by 16 kg 899 g
- ☒ B. Aaron weighs less by 16 kg 899 g
- ☒ C. Ron weighs more by 16 kg 899 g
- ☒ D. Aaron weighs more by 16 kg 899 g

Question Type : **MCQ**
Question ID : **4335764723**
Option 1 ID : **43357618889**
Option 2 ID : **43357618890**
Option 3 ID : **43357618891**
Option 4 ID : **43357618892**
Status : **Answered**
Chosen Option : **A**

Q.14 If we combine two consecutive triangular numbers, we get?
2

- Ans ☒ A. Rational Number
- ☒ B. Whole Number
- ☒ C. Perfect Square
- ☒ D. Prime Number

Question Type : **MCQ**
Question ID : **4335764751**
Option 1 ID : **43357619001**
Option 2 ID : **43357619002**
Option 3 ID : **43357619003**
Option 4 ID : **43357619004**
Status : **Answered**
Chosen Option : **C**

Q.14 Which of the following is a waterborne disease?
3

- Ans ☒ A. Measles
- ☒ B. malaria
- ☒ C. Lung disease
- ☒ D. Hepatitis

Question Type : **MCQ**
Question ID : **4335764649**
Option 1 ID : **43357618593**
Option 2 ID : **43357618594**
Option 3 ID : **43357618595**
Option 4 ID : **43357618596**
Status : **Answered**
Chosen Option : **B**

isting of a mother, father and their two children". This statement

4 is

- Ans ☒ A. incorrect, because the statement should specify that the children are biological
- ☒ B. incorrect, because there are many kinds of families and one cannot classify family as being of only one kind
- ☒ C. correct, since this is an ideal family size
- ☒ D. correct, because this is what all Indian families are like

Question Type : MCQ
Question ID : 4335764503
Option 1 ID : 43357618009
Option 2 ID : 43357618010
Option 3 ID : 43357618011
Option 4 ID : 43357618012
Status : Answered
Chosen Option : B

Q.14 If the median of the data 30,8,7,3,17,15,21,24,29,23 is x and the median of the data
5 obtained by replacing 3 by 33 and 8 by 18 in the above data is y, then what is the
difference between y and x ?

- Ans ☒ A. 2
- ☒ B. 3
- ☒ C. 4
- ☒ D. 1

Question Type : MCQ
Question ID : 4335764770
Option 1 ID : 43357619077
Option 2 ID : 43357619078
Option 3 ID : 43357619079
Option 4 ID : 43357619080
Status : Answered
Chosen Option : B

Q.14 Choose the correct option instead of the question mark in the given question.
6

456 : 15 :: 627 : ?

- Ans ☒ A. 12
- ☒ B. 15
- ☒ C. 18
- ☒ D. 21

Question Type : MCQ
Question ID : 4335764838
Option 1 ID : 43357619349
Option 2 ID : 43357619350
Option 3 ID : 43357619351
Option 4 ID : 43357619352
Status : Answered
Chosen Option : B

7

hich Letter is in between the Letter s and the Letter G ?

- Ans ☒ A. N
☒ B. M
☒ C. L
☒ D. P

Question Type : **MCQ**
Question ID : **4335764921**
Option 1 ID : **43357619681**
Option 2 ID : **43357619682**
Option 3 ID : **43357619683**
Option 4 ID : **43357619684**
Status : **Answered**
Chosen Option : **B**

Q.14 Which of the following are macronutrients commonly found in soil?
8

- Ans ☒ A. Carbon, Hydrogen, Oxygen
☒ B. Nitrogen, Phosphorus, Potassium
☒ C. Iron, Manganese, Zinc
☒ D. Boron, Copper, Molybdenum

Question Type : **MCQ**
Question ID : **4335764576**
Option 1 ID : **43357618301**
Option 2 ID : **43357618302**
Option 3 ID : **43357618303**
Option 4 ID : **43357618304**
Status : **Answered**
Chosen Option : **B**

Q.14 ABCD is a rhombus in which $\angle ADB = 25$ Degree. Then, the value of $(2\angle BAD - \angle ABC)$ is
9 :

- Ans ☒ A. 230 Degree
☒ B. 240 Degree
☒ C. 210 Degree
☒ D. 260 Degree

Question Type : **MCQ**
Question ID : **4335764790**
Option 1 ID : **43357619157**
Option 2 ID : **43357619158**
Option 3 ID : **43357619159**
Option 4 ID : **43357619160**
Status : **Answered**
Chosen Option : **C**

which of the following :

0

- Ans  A. Time-space compression
-  B. The integration of the world economy
-  C. The growth of supra- territorial relations between people
-  D. All the above

Question Type : **MCQ**
Question ID : **4335764433**
Option 1 ID : **43357617729**
Option 2 ID : **43357617730**
Option 3 ID : **43357617731**
Option 4 ID : **43357617732**
Status : **Answered**
Chosen Option : **D**