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Academic Year 2021-2022 Questions & Answers

Questions for Round-I Sept 2021

1. My brothers were both born in the month of

March

2. Who is the ... of the United States of America?

president

3. The Pacific Ocean is the largest ... in the world.

Ocean

Questions for Round-II Sept 2021.

1. Find the missing term in the series: 3, 5, 9, 17, 33, 65, ____ *

- a. 129
- b. 128
- c. 126
- d. 132

2. 1.14 expressed as a percent of 1.9 as

- a. 6%
- b. 10%
- c. 60%
- d. 90%

3. Half percent, written in decimal is

- a. 0.005
- b. 0.5
- c. 0.002
- d. 0.2

Questions for Round-III Sept 2021

4. In SQL, which command is used to select only one copy of each set of duplicable rows *

- (A) **SELECT DISTINCT**
- (B) **SELECT UNIQUE**
- (C) **SELECT DIFFERENT**
- (D) All of the above

5. The minimal set of super key is called *

- (A) **Primary key**

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(B) Secondary key

(C) Candidate key

(D) Foreign key

6. A type of query that is placed within a WHERE or HAVING clause of another query is called *

(A) Super query

(B) Sub query

(C) Master query

(D) Multi-query

7. Functional dependency between two or more non-key attributes is defined as *

(A) Transitive dependency

(B) Partial transitive dependency

(C) Functional dependency

(D) Partial functional dependency

Questions for Round-I October 2021.

8. A running man crosses a bridge of length 500 meters in 4 minutes. At what speed he is running?

a. 8.5 km/s

b. 7.5 km/s

c. 9.5 km/s

d. 6.5 km/s

9. The average of 20 numbers is zero. How many of them may be greater than zero, at the most?

a. 20

b. 19

c. 0

d. 10

10. If January 1, 1996, was Monday, what day of the week was January 1, 1997?

a. Thursday

b. Wednesday

c. Friday

d. Sunday

Questions for Round-II October 2021

1. Which organization publishes the “Model Lists of Essential Medicines”? *

[A] AIIMS

[B] IMA

[C] WHO

[D] FAO

2. What is the name of the cyclone that hit Oman and is an offspring of the cyclone Gulab? *

[A] Shaheen

[B] Fakit

[C] Gulmuhar

[D] Tez

3. Which company has launched ‘Future Engineer Programme’ in India? *

[A] Google

[B] Amazon

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- [C] Microsoft
- [D] Facebook

4. 'International Day of Awareness on Food Loss and Waste Reduction' is observed on which day? *

- [A] September 29
- [B] September 30
- [C] October 1
- [D] October 2

Questions for Round-III October 2021

01. JavaScript is which type of language? *

- A. Object-Oriented
- B. Object-Based**
- C. Assembly-language
- D. High-level

02. Which of the following is not JavaScript Data Types? *

- A. Undefined
- B. Number
- C. Boolean
- D. Float**

3. The property of the JSON() method is: *

- A. it will be automatically invoked by the compiler
- B. it is invoked automatically by the JSON.stringify() method**
- C. it can be invoked manually as object.JSON()
- D. it cannot be invoked in any form

4. What is the use of < noscript > tag? *

- A. Prevents scripts on the page from executing
- B. Enclose text to be displayed by non-JavaScript browsers**
- C. Stops cookies
- D. None of the mentioned

5. Which of the following is not considered a JavaScript operator? *

- A. this**
- B. new
- C. typeof
- D. delete

Questions for Round-IV October 2021

1. Cheenu has a family of eight members. Bablu is the eldest male member of the family. Haryali is the daughter-in-law of Neelu and sister-in-law of Sonu and Anku. Apart from Cheenu and Bablu, only Sonu is a male member of the family. Anku is the aunt of Cheenu's two daughters Saba and Daya. How is Daya related to Sonu?

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- A. Grandmother
- B. Niece**
- C. Mother
- D. Aunt

2. If A is B's sister, C is B's mother, D is C's father and E is D's mother, then how A is related to D? *

- A. Granddaughter**
- B. Daughter
- C. Aunt
- D. Father

3. Complete the series: ELFA, GLHA, ILJA, _____, MLNA *

- A. OLPA
- B. KLMA
- C. LLMA
- D. KLLA**

Questions for Round-I Nov 2021

1. What is the name of India's Super computer, placed among the top 500 world's most powerful non-distributed computer systems? *

- A. Param Siddhi**
- B. Param Shivay
- C. Param Shakti
- D. Adi Shakti

2. Which technology major has announced to launch a virtual private networks (VPN) service for consumers? *

- A. Microsoft
- B. Google**
- C. Apple
- D. Amazon

3. Which institution has developed an online platform 'e-Source' ? *

- A. BITS
- B. IIM-A
- C. IIT-M**
- D. ISRO

Questions for Round-II Nov 2021

1. Some persons can do a piece of work in 12 days. Two times the number of these people will do half of that work in? *

- A. 3 days**

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- B. 4 days
- C. 6 days
- D. 12 days

2. A and B can finish a work in 16 days while A alone can do the same work in 24days. In how many days B alone will complete the work? *

- A. 56
- B. 48
- C. 36
- D. 58

3. A and B complete a work in 6 days. A alone can do it in 10 days. If both together can do the work in how many days? *

- A. 3.75 days
- B. 4 days
- C. 5 days
- D. 6 days

Questions for Round-III Nov 2021

1. Which of the following statements are true regarding C++? a) Overloading gives the capability to an existing operator to operate on other data types. (b) Inheritance in object oriented programming provides support to reusability. (c) When object of a derived class is defined, first the constructor of derived class is executed then constructor of a base class is executed. (d) Overloading is a type of polymorphism. *

- (a) and (b) only
- (a), (b) and (c) only
- (a), (b) and (d) only**
- (b), (c) and (d) only

2. Which of the following class of IP address has the last address as 223.255.255.255? *

- (1) Class A
- (2) Class B
- (3) Class C**
- (4) Class D

3. LINUX operating system supports which of the CPU scheduling algorithms? *

- (1) Non-preemptive priority scheduling
- (2) Preemptive priority scheduling and time sharing CPU scheduling**
- (3) Time sharing scheduling only
- (4) Priority scheduling only

Questions for Round-IV Nov 2021

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1. Consider the following Java statements: `int x = 10, y = 15; x = ((x < y) ? (y + x) : (y - x));`

What will be the value of x after executing these statements? *

25

15

5

Error

2. What is wrong in the following class definitions? `abstract class print { abstract show();}`

`class Display extends print { }` *

Nothing is wrong

Wrong Method show() should have a return type

Wrong Methods show() is not implemented in Display

Wrong Display does not contain any members.

3. Consider the JavaScript Code: `var y= "12";function f() {var y="6"; alert (this.y); function g() {alert (y); }g();}f();` If M is the number of alert dialog boxes generated by this JavaScript code and D1, D2,, D M represents the content displayed in each of the M dialog boxes,

then: *

M=3; D1 displays "12"; D2 displays "6"; D3 displays "12".

M=3; D1 displays "6"; D2 displays "12"; D3 displays "6".

M=2; D1 displays "6"; D2 displays "12".

M=2; D1 displays "12"; D2 displays "6".

Questions for Round-I Dec 2021

1. A computer printed 24960 lines in a day. If the computer worked for 8 hours in the day, how many lines did it print in a minute? *

52

15

54

34

2. An 18 storied building has 24000 sq. feet on each floor. Company A rents 8 floors and company B rents 5 floors. What is the amount of unrented floor space? *

12000

24000

120000

180000

3. A fruit seller had some mangoes. He sold 40% mangoes and 420 mangoes are still remaining with him. Originally, he had: *

A. 588

B. 600

C. 672

D. 700

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Questions for Round-II Dec 2021

1. Which word has been chosen as the '2021 word of the year' by Merriam-Webster? *
[A] **Vaccine**
[B] Quarantine
[C] Infection
[D] Isolation
2. Which country proposed the 'Social Media (Basic Expectations and Defamation) Bill 2021'? *
[A] USA
[B] **Australia**
[C] China
[D] India
3. Dhawan-1, India's first first privately developed fully cryogenic rocket engine, was developed by which company? *
[A] **Skyroot Aerospace**
[B] Skanda Aerospace
[C] Dhruv Space
[D] Collins Aerospace

Questions for Round-III Dec 2021

1. Which of the following is defined as a number of Internet-connected systems, where each of them is running one or more bots? *
a) Virus
b) **Botnet**
c) Trojan
d) Worms
2. The least strong security encryption standard is _____ *
a) WPA3
b) WPA2
c) WPA
d) **WEP**
3. What is the Malware? *
a) Malfunctioning of Security
b) **Malicious Software**
c) Malfunctioned Software
d) Multipurpose Software

Questions for Round-I Jan 2022

1. In a bag, there are a certain number of toy-blocks with alphabets A, B, C and D written on them. The ratio of blocks A:B:C:D is in the ratio 4:7:3:1. If the number of 'A' blocks is 50 more than the number of 'C' blocks, what is the number of 'B' blocks? *
650
480

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578

350

2. In a room, there are 28 women and 21 men. What is the ratio of women to the total number of people? *

5:4

4:7

6:3

8:7

3. A bag contains 50 P, 25 P and 10 P coins in the ratio 5: 9: 4, amounting to Rs. 206. Find the number of coins of each type respectively. *

360, 160, 200

160, 360, 200

200, 360,160

200,160,300

Questions for Round-II Jan 2022

1. India's first indigenously developed Long-Range Bomb (LRB) has been developed by which organisation? *

[A] ISRO

[B] DRDO

[C] HAL

[D] NSIL

2. The researchers of Durham University have developed a supercomputer simulation to explain the formation of which space body? *

[A] Moon

[B] Mars

[C] Sun

[D] Earth

3. Loon' Internet balloon project is the initiative of which Technology Giant? *

[A] Amazon

[B] Alphabet

[C] Microsoft

[D] Apple

4. Which Indian company is to launch a new COVID-19 vaccine under the brand name Covovax? *

[A] Dr Reddys

[B] Serum Institute of India

[C] Biocon

[D] Sun Pharma

Questions for Round-III Jan 2022

1. The day on 5th March of a year is the same day on what date of the same year? *

a.5th August

b.5th October

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c.5th November

d.5th December

2. The watch gains 5 minutes, in every hour. How many degrees the second hand moves in every minute? *

a.375°

b.380°

c.385°

d.390°

3. Find out the wrong number in the series: 1, 1, 2, 6, 24, 96, 720 *

a.720

b.96

c.24

d.6

Questions for Round-I Feb 2022

1.In which of the following is toString() method defined?

a. java.lang.Object

b. java.lang.String

c. java.lang.util

d. None

Answer

toString() is defined in java.lang.Object.

2. Choose the keyword among the following that makes a variable belong to a class, rather than being defined for each instance of the class.

a.final

b.static

c.volatile

d.abstract

ans: Static keyword makes a variable belong to a class,rather than being defined for each instance of the class.

3. When is the finalize() method called?

a. Before garbage collection

b. Before an object goes out of scope

c. Before a variable goes out of scope

d. None

Answer

finalize() method is called before garbage collection.

Questions for Round-II Feb 2022

1.ISRO has partnered with which country's space agency for air quality monitoring using satellite

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data?

- a.USA
- b.Japan
- c.France
- d.Russia

Correct Answer: B [Japan]

2. Which country has released the world's first animal vaccine against the novel coronavirus?

China

[B]

Russia

[C]

USA

[D] Israel

Hide Answer

Correct Answer: B [Russia]

3. Which Indian public sector bank has launched banking services through WhatsApp?

[A] Union Bank of India

[B] Bank of Baroda

[C] Bank of Maharashtra

[D] Indian Bank

Correct Answer: B [Bank of Baroda]

Questions for Round-III Feb 2022

1. What is the value of $(25.732)^2 - (15.732)^2$?

- A. 414.64**
- B. 414.256
- C. 414.128
- D. 414.52

2. If Suresh borrows Rs. 36000 from Mahesh at rate of interest 6% S.I, at the end of four years how much interest Suresh has to pay along with principal amount?

- A. Rs. 12560
- B. Rs. 12960**
- C. Rs. 13500
- D. Rs. 14500

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3. 40 % of 280 =?

- a) 112
- b) 116
- c) 115
- d) 120

The Correct answer; option (A)

Questions for Round-I June 2022

1. PHP stands for -

- a. **Hypertext Preprocessor**
- b. Pretext Hypertext Preprocessor
- c. Personal Home Processor
- d. None of the above

2. Which variable is used to collect form data sent with both the GET and POST methods?

- a) \$_BOTH
- b) **\$REQUEST**
- c) \$_REQUEST
- d) \$BOTH

3. What does PEAR stands for?

- a) PHP extension and application repository
- b) PHP enhancement and application reduce
- c) PHP event and application repository
- d) None of the above

4. Which PHP function displays the web page's most recent modification date?

- a) getlastmod()
- b) get_last_mod()
- c) lastmod()
- d) last_mod()

Questions for Round-II June 2022

1. India's P V Sindhu won which medal/position in the Asian Championships 2022?

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- [A] Gold
- [B] Silver
- [C] Bronze
- [D] Fourth Place

Hide Answer

Correct Answer: C [Bronze]

2. 'Declaration for the Future of the Internet' which was announced recently, is associated with which field?

- [A] Prevention of Digital authoritarianism
- [B] Tax on Digital advertising
- [C] Artificial Intelligence
- [D] Data Protectionism

Hide Answer

Correct Answer: A [Prevention of Digital authoritarianism]

3. The Lok Sabha passed a bill to merge three municipal corporations of which city into a single entity?

- [A] Mumbai
- [B] Delhi
- [C] Kolkata
- [D] Chennai

Hide Answer

Correct Answer: B [Delhi]

4. 'Neu' is the name of a super-application of which Indian Conglomerate?

- [A] Reliance Jio
- [B] Amazon
- [C] ITC Limited
- [D] Tata Group

Hide Answer

Correct Answer: D [Tata Group]

5. Which global technological company was first to launch a web portal which tracks COVID-19 infections worldwide?

- [A] Google
- [B] Microsoft
- [C] Facebook
- [D] Amazon

Hide Answer

Correct Answer: B [Microsoft]

Questions for Round-III June 2022

1. In a row of trees, a tree is 7th from the left end and 14th from the right end. How many trees are there in the row?

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- a. 18
- b. 19
- c. 20
- d. 21

The correct option is B 20

2. B is twice as old as A but twice as young as F. C is half the age of A but is twice as old as D. Who is the second youngest among them?

- a. A
- b. B
- c. C
- d. D

The correct option is c. C

3. Ramesh ranks 13th in a class of 33 students. There are 5 students below Suresh rank wise. How many students are there between Ramesh and Suresh?

- a. 12
- b. 14
- c. 15
- d. 16

The correct option is c.

Questions for Round-I July 2022

1. A person who insists on a certain quality or strictly follows a specific behavior

- A. arrogant
- B. stickler
- C. stubborn
- D. boaster

Ans: C

2. Peter is excessively concerned with accuracy and precision. He is a

- A. pedantic
- B. professional
- C. observer
- D. none of the above

Answer: A

3. The points to be discussed at a meeting

- A. Schedule
- B. Agenda
- C. Strategy
- D. Plan

Answer: B

Questions for Round-II July 2022

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1. Removing people from a place of danger

- A. Evade
- B. Extract
- C. Exclude
- D. Evacuate

Answer: D

2. He pretends to be someone else. He is a

- A. Magician
- B. Rouge
- C. Imposter
- D. Linguist

Answer: C

3. A speech made without preparation

- A. improvisation
- B. unprepared
- C. extempore
- D. None of the above

Answer: C

4. An object or something that is perceptible by touch

- A. intangible
- B. contingent
- C. tangible
- D. intact

Ans : C

Questions for Round-II July 2022

1. Which one of the following refers to the total view of the database content?

- a. Conceptual view
- b. Physical view
- c. Internal view
- d. External view

Answer: A

2. For what purpose the DML is provided?

- a. Addition of new structure in the database
- b. Manipulation & processing of the database
- c. Definition of the physical structure of the database system
- d. All of the above

Answer: B

3. Which of the following keys is generally used to represent the relationships between the tables?

- a. Primary key
- b. Foreign key

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- c. Secondary key
- d. None of the above

Answer: B

Questions for Round-III July 2022

1. What is the probability of getting an even number when a dice is rolled?

- A. $1/5$
- B. $1/2$
- C. $1/3$
- D. $1/4$

Answer: B

2. The value of $(0.333\dots) * (0.444\dots)$ is

- A. 0.121212....
- B. 1.3333.....
- C. 0.777.....
- D. 0.148148148.....

Answer: D

3. Complete the series 2, 5, 9, 19, 37.....

- A. 76
- B. 74
- C. 75
- D. None of these.

Answer: C

2. Find the odd man out. 1,3,9,12,19,29

- A. 11 B. 33
- C. 99 D. 1212

Answer: Option D

3. Find the odd man out. 187,264,386,473,682,781

- A. 682682 B. 781781
- C. 386386 D. 187187

Answer: Option C

4. Find the odd man out. 24,36,52,72,96,24,36,52,72,96

- A. 7272 B. 3636
- C. 2424 D. 5252

Answer: Option D