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**Aptitude**

**1. The barrel of a Ink pen is cylindrical in shape which radius of base as 0.12 cm and is 7 cm long. One such barrel in the pen can be used to write 450 words. A barrel full of ink which has a capacity of 17 cu. cm can be used to write how many words approximately?**   
a) 15423   
b) 21342   
c) 17645   
d) 24147

Ans - d  
**2. A person runs opposite to that of a chandigarh train at a speed of 10km/hr. If the relative speed between the train and the boy running in the opposite direction is 25km/hr. What is the length of the train, if it takes 10 seconds to cross a boy, when is at rest?**

a) 36.6 m   
b) 40.6 m   
c) 43.6m   
d) 41.6m

Ans - d  
**3. P and Q undertake to do a piece of job for Rs.1200. P alone can do it in 12 days while Q alone can do it in 16 days. With the help of R , they finish it in 6 days. Find the share of P,Q & R.**   
a) 400,600,200   
b) 200,400,600   
c) 450,400,250   
d) 600,450,150

Ans - d  
**4. Adam and Smith are working on a project. Adam takes 18 hrs to type 108 pages on a computer, while Smith takes 15 hrs to type 120 pages. How much time will they take, working together on two different computers to type a project of 360 pages?**   
a) 23 hrs 24 min   
b) 45 hrs 42 min   
c) 25 hrs 42 min   
d) 42 hrs 45 min

Ans – c

**5. Pradeesh gets a chance of 40% to win the 1st round of a game and Priya gets a chance of 55% to win the 2nd round of the game. In what % of cases are they likely to contradict each other, narrating the same incident?**   
a) 49%   
b) 54%   
c) 51%   
d) 38%

Ans – c

**6. A boatman can take the same time to row6.5km downstream and 3.5km upstream. His speed in still water is 2.5 km/hr. The speed of the stream is.**   
A) 0.75 km/hr   
B) 2.5 km/hr   
C) 1.5km/hr   
D) 7.5km/hr

Ans - A

**7. Suprith bought 40 kg of rava at the rate of Rs.8.50 per kg and 55 kg at the rate of Rs.8.75 per kg. He mixed the two. Approximately at what price per kg should he sell the mixture to make 40% profit at the cost price?**   
a) Rs.12   
b) Rs.14   
c) Rs.25   
d) Rs.21

Ans - a  
  
**8. From a cask of milk containing 45 litres, 9 litres are drawn out and the cask is filled up with water.If the same process is repeated a second, then a third time, what will be the number of litres of milk left in the cask?**   
a) 31.2   
b) 20.9   
c) 23.04   
d) 12.39   
e) 15.36

Ans - c  
  
**9. If a legislature decides to fund agricultural subsidy programs, national radio, and a small business loan program, what 2 other programs can they fund?**

a) Harbor improvements and school music program

b) Harbor improvements and international airport

c) Hurricane preparedness and international airport

d) Hurricane preparedness and school music program

e) Harbor improvements and hurricane preparedness

ans - a  
  
**10. The Sharks and the Bears each finished with 34 points, and they are now battling it out in a five-minute overtime.**

a) When he is offered a better paying position, Jacob leaves the restaurant he manages to

manage a new restaurant on the other side of town.

b) Catherine is spending her junior year of college studying abroad in France.

c) Malcolm is readjusting to civilian life after two years of overseas military service.

d) After several miserable months, Sharon decides that she can no longer share an apartment

with her roommate Hilary.

Ans - c

**Frontend Test**

1. **Which of the following HTML code will make an image clickable?**

a) <a href="https://www.sanfoundry.com/">Sanfoundry Home Page</a>

b) <img src="https://www.sanfoundry.com/sanfoundry-logo">

<a href="https://www.sanfoundry.com/">Sanfoundry Home Page</a>

</img>

c) <a href="https://www.sanfoundry.com/">Sanfoundry Home Page</a>

<img src="https://www.sanfoundry.com/sanfoundry-logo" />

d) <a href="https://www.sanfoundry.com/"><img

src="https://www.sanfoundry.com/sanfoundry-logo" /></a>

Ans – b.

1. **What will be the output of the following JavaScript code?**

<p id="demo"></p>

<script>

var js = 10;

js \*= 5;

document.getElementById("demo").innerHTML = js;

</script>

a) 10

b) 50

c) 5

d) Error

Ans – b)50

1. **What will be the output of the following JavaScript code snippet?**

// JavaScript Equalto Operators

function equalto()

{

int num=10;

if(num===”10”)

return true;

else

return false;

}

a) false

b) true

c) compilation error

d) runtime error

Ans – a) false

1. **What will be the output of the following JavaScript program?**

function sanfoundry(javascript){

return (javascript ? “yes” : “no”);

}

bool ans=true;

console.log(sanfoundry(ans));

a) Compilation error

b) Runtime error

c) Yes

d) No

Ans – c) yes

1. **What will be the output of the following JavaScript function?**

<p id="demo"></p>

<script>

function javascript()

{

// javacript abs() method

document.getElementById("demo").innerHTML = Math.abs(-7.25);

}

</script>

a) -7.25

b) 7.25

c) -7

d) 7

Ans – b) 7.25

**Backend Test**

1. **Which of the following are the operations applicable on primitive data structures?**

a. create

b. destroy

c. update

d. all of the above

ans - d

1. **Which of the following statements is false?**

a. Arrays are dense lists and static data structures.

b. Data elements in linked list need not be stored in adjacent space in memory

c. Pointers store the next data element of a list.

d. Linked lists are collections of the nodes that contain the information part and next pointer.

1. **Which operation does the below code perform?**

int fun()

{

if(isEmpty())

{

return -10;

}

else

{

int n;

n= q[front];

front++;

return n;

}

}

1. Enqueue
2. Dequeue
3. Return the front element
4. Both b and c
5. **Which one of the following is the correct option to create a new node?**

struct node

{

int data;

struct node \*next;

}

node ptr;

1. ptr= (node\*)malloc(sizeof(node\*))
2. ptr=(node)malloc(sizeof(node))
3. ptr=(node\*)malloc(sizeof(node))
4. None of the above

**5. Which one of the following is the correct way to increment the rear end in a circular queue?**

1. rear =rear+1
2. (rear+1) % max
3. (rear % max) + 1
4. None of the above