

INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

INSTRUCTIONS

0:0:0

General Instructions:

1. Please DO NOT carry mobile phone or any other electronic gadget during the assessment
2. Once you log in and start the assessment, the application will go into full screen mode and you should not access any other application.
3. The timer at the top of the screen will display the time left for the completion of the assessment. The exam will be auto closed when the time is up.
4. We will track the movement out of the assessment application to other applications and provide a warning message when such an instance is recorded. This would be considered as a malpractice and you could be barred from continuing further.
5. Please DO NOT click on 'Finish Test' unless you want to complete the assessment and submit for evaluation. You will not be allowed to login again after finishing the test.
6. The result of this assessment will be informed over email.
7. **NOTE:** In case of any issues you can mail us at : infytq@infosys.com Or just give us a call on 1800-3000-4747

Assessment related Instructions:

1. This assessment has ONLY Objective(MCQ) questions
2. The duration of the assessment is 60 minutes
3. There will be 40 questions and the split will be as follows:
 1. 20 on programming concepts in Java or Python based on the option that you selected during registration
 2. 10 on Database Management System (DBMS Concepts)
 3. 10 on Analytical and logical reasoning
4. Each question carries 1 mark
5. In the case of questions with multiple correct answers (checkbox type), marks will be awarded ONLY when all the right answers are chosen.
6. You will lose 0.25 marks for a wrong answer
7. Unanswered questions will not have negative marking. You can click on the "Reset" button if you want to cancel an already selected option.
8. **IMPORTANT:** Each question should you choose to select an answer must be saved before proceeding to the next question.

Start

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Finish Test



MCQ QUESTIONS

Programming

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	

Question 1

Following elements are to be stored in a hash table using the hash function $h(k) = k \% 8$ in the order shown:

65, 27, 50, 9, 36, 43, 20

Identify the hash values for which collision occurs.

- ☐ Collision will occur for hash values 1,2
- ☐ No collision will occur
- ☐ Collision will occur for hash values 1,4
- ☐ Collision will occur for hash values 1,3,4

Reset

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MCQ QUESTIONS

Programming

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Question 2

Consider the following requirements:

1. Class 'DemoClassA' has an instance variable 'inst_var1', the value stored in 'inst_var1' should be accessible outside of class 'DemoClassA'.
2. Class 'DemoClassB' has a static variable 'stat_var1', which should be accessible only inside the class 'DemoClassB'.

Consider the suggested solutions to be used to implement the above requirements:

- a. Instance variable 'inst_var1' should be made private and there should not be any getter method for 'inst_var1'
- b. Instance variable 'inst_var1' should be made private and there should be a getter method for 'inst_var1'
- c. Static variable 'stat_var1' should be made public
- d. Static variable 'stat_var1' should be made private and there should not be any getter method for 'stat_var1'

Choose the correct solution for the given requirements from the options given below:

- ☐ 1-a, 2-d
- ☐ 1-a, 2-c
- ☐ 1-b, 2-d
- ☐ 1-b, 2-c

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MCQ QUESTIONS

Programming

- 1
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Question 3

Consider the code given below.

```
def display_cat_details(color, name1, name2=None, name3=None): #Line 1
    pass
```

```
display_cat_details("Brown", "Fluffy", "Snow")
```

Which of the following function signatures when replaced in Line 1 would continue to execute successfully?

Choose TWO correct options.

- ☐ def display_cat_details(color, *names, name1)
- ☐ def display_cat_details(color, name_list)
- ☐ def display_cat_details(color, *names)
- ☐ def display_cat_details(color, name1, *names)

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MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

Question 4

Consider the below inputs:

input_linked_list (Head to Tail): 1 -> 2 -> 5 -> 3

input_stack (Top to Bottom): 4, 2, 5, 10

```
def generate(input_linked_list, input_stack):  
    temp = input_linked_list.get_head()  
    #get_head() returns the head node  
    element = 0  
    while (temp.get_next() is not None):  
        #get_next() returns the address of the next node  
        temp.set_data(temp.get_data() + temp.get_next().get_data() + element)  
        #get_data() returns the data stored in the node  
        if temp.get_data() % 2 != 0:  
            temp.set_data(temp.get_data() + input_stack.pop())  
            #set_data(data) updates the data stored in the node  
            element = temp.get_data()  
        else:  
            input_stack.push(element)  
            element = temp.get_next().get_data()  
            temp = temp.get_next()  
    temp.set_data(temp.get_data() + input_stack.pop())
```

What will be the content of **input_linked_list** from head to tail and **input_stack** from top to bottom after the execution of the function **generate**?

Assumption: Stack and LinkedList classes, with the necessary methods, are available

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Finish Test



MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

```
input_stack.push(element)  
element = temp.get_next().get_data()  
temp = temp.get_next()  
temp.set_data(temp.get_data() + input_stack.pop())
```

What will be the content of **input_linked_list** from head to tail and **input_stack** from top to bottom after the execution of the function **generate**?

Assumption: Stack and LinkedList classes, with the necessary methods, are available

- ☐ input_linked_list (Head to Tail): 7 -> 14 -> 20 -> 5
input_stack (Top to Bottom): 5, 10
- ☐ input_linked_list (Head to Tail): 5 -> 7 -> 10 -> 5
input_stack (Top to Bottom): 2, 5, 10
- ☐ input_linked_list (Head to Tail): 7 -> 14 -> 20 -> 3
input_stack (Top to Bottom): 5, 10
- ☐ input_linked_list (Head to Tail): 7 -> 14 -> 20 -> 5
input_stack (Top to Bottom): 10

Reset

Save

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Finish Test



MCQ QUESTIONS

Programming

- 1
- 2
- 3
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- 11
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- 18
- 19
- 20

Question 5

Mr. Alex is a well known staff member in a popular college. He has been serving as Head Of the Department(HOD) for 18 years. The HOD has a team of teachers working based on the instructions given by him. The HOD and teachers need to swipe their ID card to enter the college. Like teachers, the HOD is required to deliver sessions. The HOD, in comparison with his team members, has additional responsibilities to ensure smooth functioning and closure of operations. Considering the above scenario, what would be the most suitable relationship that can be modelled between the HOD and his team?

- ☐ Inheritance
- ☐ Aggregation
- ☐ Dependency
- ☐ Composition

Reset

Save

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00:59:32

Finish Test



MCQ QUESTIONS

Programming

- 1
- 2
- 3
- 4
- 5
- 6
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- 11
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- 13
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- 16
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- 18
- 19
- 20

Question 6

Consider the code given below:

```
class Customer:
    counter=100
    def __init__(self):
        self.customer_id=Customer.counter
        Customer.counter+=1
        self.discount=5

    def calculate_total_amount(self,amt):
        return amt*(100-self.discount)/100

class PrivilegedCustomer(Customer):
    def __init__(self):
        super().__init__()
        self.privilege_points=100

    def calculate_total_amount(self,amt):
        amount= _____ #Line 1
        return amount - ( _____ ) // 10 #Line 2

privileged_customer=PrivilegedCustomer()
print('Customer id:', _____) #Line 3
print('Amount:',privileged_customer.calculate_total_amount(1000))
```

What must be written in the blanks at Line 1, Line 2 and Line 3 in order to get the following output?

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MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

Customer id: 100
Amount: 840.0

Note: Line numbers are only for reference

- ☐ Line 1: super().calculate_total_amount(amt)
Line 2: self.privilege_points+amt
Line 3: privileged_customer.counter
- ☐ Line 1: self.calculate_total_amount(amt)
Line 2: self.privilege_points+amt
Line 3: privileged_customer.customer_id
- ☐ Line 1: super().calculate_total_amount(amt)
Line 2: super().privilege_points+amt
Line 3: privileged_customer.customer_id
- ☐ Line 1: super().calculate_total_amount(amt)
Line 2: self.privilege_points+amt
Line 3: privileged_customer.customer_id

Reset

Save

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Finish Test



MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

Question 7

What would be the values of **output_queue** from front to rear when the below **input_queue** is passed as input to the given function?

input_queue(front to rear): 3, 7, 6, 2, 5, 6, 3, 2

```
def function(input_queue):  
    output_queue=Queue(10)  
    while(not input_queue.is_empty()):  
        var=input_queue.dequeue()  
        if var<=5:  
            output_queue.enqueue(input_queue.dequeue()+1)  
        else:  
            output_queue.enqueue(output_queue.dequeue()+input_queue.dequeue())  
    return output_queue
```

Assumption: Queue class, with the necessary methods, is available

- ☐ 3, 6, 13, 3
- ☐ 10, 7, 3
- ☐ 10, 7, 3, 2
- ☐ 8, 7, 5

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MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

Question 8

Consider the below code:

```
def vending_machine(insert_money,item_id):  
    if item_id == 101 and insert_money:  
        #Line1  
        #Line2  
  
insert_money= True  
item_id = 101  
print(vending_machine(insert_money,item_id))
```

Identify the statements to be replaced in Line1 and Line2 respectively such that the output is as below:

Disperse the product
Function executed successfully

- ☐ Line1 : return "Disperse the product"
Line2 : return "Function executed successfully"
- ☐ Line1 : print("Disperse the product")
Line2 : return "Function executed successfully"

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Finish Test



MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

```
item_id = 101  
print(vending_machine(insert_money,item_id))
```

Identify the statements to be replaced in Line1 and Line2 respectively such that the output is as below:

Disperse the product
Function executed successfully

- ☐ Line1 : return "Disperse the product"
Line2 : return "Function executed successfully"
- ☐ Line1 : print("Disperse the product")
Line2 : return "Function executed successfully"
- ☐ Line1 : return "Disperse the product"
Line2 : print("Function executed successfully")
- ☐ Line1 : print("Disperse the product")
Line2 : print("Function executed successfully")

Reset

Save

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INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

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MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

Question 9

Consider the following Python code that depicts **BINARY SEARCH** algorithm for the list of elements sorted in **ASCENDING ORDER**

```
1 def binary_search(num_list, element):~
2     low=0
3     high=len(num_list)-1
4     mid=(low+high)//2
5     while(num_list[mid]!=element and low<high):~
6         if(element>num_list[mid]):~
7             low=mid+1
8         else:~
9             high=mid-1
10        mid=(low+high)//2
11        if(element == num_list[mid]):~
12            print("Element is in the list at index",mid)
13        else:~
14            print("Element is not in the list")
15
```

Note: Line numbers are for reference only

If it has to be used on the list of elements sorted in **DESCENDING ORDER**, what modification needs to be done in the

- ☐ Change the code at line number 4 and 10 as mid=int((low+high)/2)

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MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

```
7     low=mid+1
8     else:~
9         high=mid-1
10        mid=(low+high)//2
11        if(element == num_list[mid]):~
12            print("Element is in the list at index",mid)
13        else:~
14            print("Element is not in the list")
15
```

Note: Line numbers are for reference only

If it has to be used on the list of elements sorted in **DESCENDING ORDER**, what modification needs to be done in the given code?

- ☐ Change the code at line number 4 and 10 as mid=int((low+high)/2)
- ☐ Change the code at line number 6 as if(num_list[mid]==element):
- ☐ Change the code at line number 6 as if(element< num_list[mid]):
- ☐ Change the code at line number 6 as if(element>=num_list[mid]):

Reset

Save

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MCQ QUESTIONS

Programming

- 1
- 2
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Question 10

John is visiting a zoo. After roaming for sometime, he finds that he has lost his way. John wants to reach the entry/exit gate. He remembers 'Vans Ice-Cream', a landmark which he saw while strolling in the zoo. John finds that there are 3 ways to reach Vans Ice-Cream from his current location and from Vans Ice-Cream there are 4 ways to reach the entry/exit gate. Considering the above scenario, identify the most suitable data structure that can be used to represent all possible ways to reach the entry/exit gate from John's current location?

- ☐ Graph
- ☐ Tree
- ☐ Stack
- ☐ Queue

Reset

Save

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00:59:12

Finish Test



MCQ QUESTIONS

Programming

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Question 11

What will be the output of the code given below?

```
class InvalidLengthException(Exception):
    pass
class Mobile:
    def __init__(self, mob_no):
        self.__mob_no=mob_no
    def validate_mobile_number(self):
        try:
            if (len(self.__mob_no)!=10):
                raise InvalidLengthException
            else:
                print("Valid Mobile Number")
        except InvalidLengthException:
            print("Invalid Length - inside class")
            print("Inside the class")
mob=Mobile("987665")
try:
    mob.validate_mobile_number()
    print("Outside the class")
except InvalidLengthException:
    print("Invalid Length - outside class")
```

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INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

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Finish Test



MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

```
mob.validate_mobile_number()  
print("Outside the Class")  
except InvalidLengthException:  
    print("Invalid Length - outside class")
```

- ☐ Invalid Length - inside class
Inside the class
Outside the class
- ☐ Invalid Length - inside class
Inside the class
Invalid Length - outside class
- ☐ Invalid Length - inside class
Invalid Length - outside class
- ☐ Invalid Length - inside class
Outside the class

Reset

Save

You're being proctored!

00:59:08

Finish Test



MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

Question 12

Consider a stack **stack1** with the following elements:

stack1 (Top to Bottom)	14	35	22	10	5	20
------------------------	----	----	----	----	---	----

Consider the following Python code:

```
def stack_function(stack1):  
    stack2=Stack(5)  
    while not stack1.is_empty():  
        if (stack1.pop()%5==0) :  
            break  
        else:  
            if (not stack1.is_empty()):  
                stack2.push(stack1.pop()*2)  
            if stack2.is_empty():  
                stack1.pop()  
            else:  
                stack2.push(10)  
    return stack2
```

What will be the content of **stack2** from TOP to BOTTOM after the execution of the above function when **stack1** is passed as argument?

Assumption: Stack class, with the necessary methods, is available

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INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

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Finish Test



MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

```
def func(stack1):
    stack2 = []
    while stack1:
        if (not stack1.is_empty()):
            stack2.push(stack1.pop()*2)
        if stack2.is_empty():
            stack1.pop()
        else:
            stack2.push(10)
    return stack2
```

What will be the content of **stack2** from TOP to BOTTOM after the execution of the above function when **stack1** is passed as input parameter?

Assumption: Stack class, with the necessary methods, is available

- ☐ 10 20 10 70
- ☐ 70 10 20 10
- ☐ 50 20 10 70
- ☐ 10 70 10 70

Reset

Save

You're being proctored!

00:59:04

Finish Test



MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

Question 13

Consider the code given below:

```
def find_special_price(product_price_list):
    if len(product_price_list) == 1:
        return product_price_list[0]
    else:
        price = find_special_price(product_price_list[1:])
        if price > product_price_list[0]:
            return price
        else:
            return product_price_list[0]
```

Which of the following iterative code is equivalent to the code given above?

☐

```
def find_special_price(product_price_list):
    price=product_price_list[-1]
    index=0
    while index<len(product_price_list[index:]):
        if product_price_list[index]<price:
            price=product_price_list[index]
        index+=1
    return price
```

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INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

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Finish Test



MCQ QUESTIONS

Programming

- 1
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- 20

☐

```
def find_special_price(product_price_list):
    price=product_price_list[0]
    for product_price in product_price_list[2:]:
        if price<=product_price:
            price=product_price
    return price
```

☐

```
def find_special_price(product_price_list):
    price=product_price_list[0]
    for index in range(0,len(product_price_list[1:])):
        if price<product_price_list[index]:
            price=product_price_list[index]
    return price
```

☐

```
def find_special_price(product_price_list):
    price=product_price_list[0]
    index=1
    while index<=len(product_price_list)-1:
        if price>product_price_list[1]:
            price=product_price_list[1]
            index+=1
    return price
```

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Finish Test



MCQ QUESTIONS

Programming

- 1
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- 18
- 19
- 20

Question 14

What will be the output of the below Python code?

```
class InvalidSkillException(Exception):
    pass
class Educator:
    total_allocations=101
    def __init__(self,skill):
        self.__skill=skill
    def validate_skill(self,skill_required):
        if(skill_required==self.__skill):
            Educator.total_allocations+=1
            return True
        else:
            raise InvalidSkillException
class Classroom:
    def __init__(self,educator):
        self.__educator=educator
        self.class_room_no=None
    def allocate_educator(self,skill_required,class_room_no):
        try:
            if(self.__educator.validate_skill(skill_required)):
                self.class_room_no=class_room_no
        except Exception:
            print("Something wrong")
        except InvalidSkillException:
            Educator.total_allocations-=1
            print("Invalid Skill")
edu=Educator("Java")
class_room1=ClassRoom(edu)
class_room1.allocate_educator("Java", "L2-73")
```

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INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

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Finish Test



MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

```
class_room2=ClassRoom(edu)
class_room2.allocate_educator("C++", "L1-75")
print(class_room1.class_room_no,class_room2.class_room_no)
print(Educator.total_allocations)
```

- ☐ Something wrong
L2-73 L2-73
102
- ☐ Something wrong
L2-73 None
102
- ☐ Invalid Skill
L2-73 None
102
- ☐ Invalid Skill
L2-73 L2-73
101

Reset

Save

You're being proctored!

00:58:53

Finish Test



MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

Question 15

What is the output of the code given below?

```
def fun(input_list,index):
    try:
        output_list = [0]*len(input_list)
        output_list[index] = input_list[index]/int(input_list[index+1])
        return output_list
    except ValueError:
        print("Invalid value")
    except ZeroDivisionError:
        print("Division by zero")
    finally:
        print("End of function")
try:
    list1 = [2,4,'6',2,8]
    list2 = fun(list1, 4)
except TypeError:
    print("Invalid type")
except IndexError:
    print("Invalid index")
finally:
    print("End of program")
```

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Finish Test



MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

```
print("Invalid type")
except IndexError:
    print("Invalid index")
finally:
    print("End of program")
```

- ☐ Invalid value
- ☐ End of function
- ☐ End of program
- ☐ Division by zero
- ☐ End of function
- ☐ End of program
- ☐ End of function
- ☐ Invalid index
- ☐ End of program
- ☐ End of function
- ☐ Invalid type
- ☐ End of program

Reset

Save

You're being proctored!

00:58:49

Finish Test



MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

Question 16

What is the output of the code given below?

```
def function(input_list):
    mid_pos=len(input_list)//2
    low=0
    high=len(input_list)-1
    while(input_list[mid_pos]<input_list[low]):
        low=low+1
    if (low < high):
        temp=input_list[low]
        input_list[low]=input_list[high]
        input_list[high]=temp
    return input_list

list1 = [39, 91, 77, 51, 33, 84]
sub_list1 = function(list1[:4])
print(sub_list1)
```

- ☐ [51, 91, 77, 39]
- ☐ [51, 77, 91, 39]
- ☐ [33, 84, 51, 39]

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00:58:48

Finish Test



MCQ QUESTIONS

Programming

- 1
- 2
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- 11
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- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20

```
while(input_list[mid_pos]<input_list[low]):  
    low=low+1  
if (low < high):  
    temp=input_list[low]  
    input_list[low]=input_list[high]  
    input_list[high]=temp  
    return input_list  
  
list1 = [39, 91, 77, 51, 33, 84]  
sub_list1 = function(list1[:4])  
print(sub_list1)
```

- ☐ [51, 91, 77, 39]
- ☐ [51, 77, 91, 39]
- ☐ [77, 91, 39, 51]
- ☐ [51, 91, 77, 39, 33, 84]

Reset

Save

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00:58:46

Finish Test



MCQ QUESTIONS

Programming

- 1
- 2
- 3
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- 15
- 16
- 17
- 18
- 19
- 20

Question 17

From the below code snippet, identify how many reference variable(s) refer to the object created in Line 1 at the end of Line 2?

```
class Team:  
    counter=0  
    def __init__(self):  
        self.no_of_players=11  
        self.coach=None  
cricket_team=Team() #Line1  
football_team=Team()  
hockey_team=football_team  
football_team=cricket_team  
football_team=Team()  
cricket_team=hockey_team #Line2
```

Note: Line numbers are only for reference

- ☐ 3
- ☐ 2
- ☐ 0
- ☐ 1

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00:58:39

Finish Test



MCQ QUESTIONS

Programming

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20

Question 18

What is the output of the below Python code?

```
class Employee:
    __counter=100

    def __init__(self,name):
        self.name=name
        Employee.__counter+=1
        self.id=Employee.__counter

    @staticmethod
    def get_counter():
        return Employee.__counter

employee1=Employee("Tina")
employee2=Employee("Chris")
employee3=Employee("Robb")
print(Employee.get_counter()-100)
```

- ☐ 1
- ☐ 3
- ☐ 103
- ☐ 0

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00:58:36

Finish Test



MCQ QUESTIONS

Programming

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20

Question 19

Consider a class 'DemoClassA' having two abstract methods 'method_one' and 'method_two' and a class 'DemoClassB' which is a child class of 'DemoClassA'.

Which of the following statements is CORRECT with regard to the above classes?

- ☐ Objects of class 'DemoClassA' can be created but objects of 'DemoClassB' cannot be created
- ☐ Objects of class 'DemoClassA' cannot be created but objects of 'DemoClassB' can be created only if both the methods 'method_one' and 'method_two' are defined
- ☐ Objects of class 'DemoClassA' and class 'DemoClassB' cannot be created at all
- ☐ Objects of class 'DemoClassA' cannot be created but objects of 'DemoClassB' can be created only if either method 'method_one' or method 'method_two' is defined

Reset

Save

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INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

00:58:34

Finish Test



MCQ QUESTIONS

Programming

- 1 2 3
- 4 5 6
- 7 8 9
- 10 11 12
- 13 14 15
- 16 17 18
- 19 20

Question 20

Consider the below code snippet.
Identify the most efficient test data set for testing the below code using 'Logic Coverage' technique.

```
if previous_year_percentage >= 75 and previous_year_percentage <= 85:  
    scholarship = 5000  
elif previous_year_percentage > 85 and previous_year_percentage <= 95:  
    scholarship = 8000  
elif previous_year_percentage > 95:  
    scholarship = 10000  
else:  
    scholarship = 0
```

- ☐ 79, 87, 91, 99
- ☐ 78, 80, 92, 99
- ☐ 74, 77, 90, 100
- ☐ 74, 75, 76, 84, 85, 86, 94, 95, 96, 97

You're being proctored!

00:58:28

Finish Test



MCQ QUESTIONS

Database

- 1 2 3
- 4 5 6
- 7 8 9
- 10

Question 1

Consider a table **order** with attributes orderid(primary key), customerid, orderdate, quantity, price and category.
Columns customerid, orderdate, quantity and price are non unique. The table has two explicit indexes as follows:
IDX1 – quantity
IDX2 – customerid, orderdate

Which of the following queries will not result in Table Scan?
[Choose TWO correct options]

- ☐ WHERE LOWER(category) = 'stationary' AND price > 400
- ☐ WHERE customerid <> 'C1001' AND orderdate = '30-MAR-2018'
- ☐ WHERE price < 650 AND orderid = 1001
- ☐ WHERE customerid = 'C1005' AND quantity > 10

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INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

00:58:25

Finish Test



MCQ QUESTIONS

Database

- 1 2 3
4 5 6
7 8 9
10

Question 2

Consider the table `employeedetail` given below:

Table : `employeedetail`

empid	empname	empsalary	bonus	projectdept
1	John	27000	400	Finance
2	Michael	20000	300	Telecom
3	John	40000	600	ENG
4	Mike	50000	700	ENG
5	Robert	25000	NULL	Telecom
6	Robert	20000	300	Telecom
7	Peter	30000	NULL	ENG
8	Carl	27000	NULL	Finance

Query :

```
SELECT projectdept , ROUND(AVG(empsalary)) AVGSAL , SUM(bonus)TOTALBONUS
FROM employeedetail
GROUP BY projectdept HAVING AVG(empsalary) > 20000 AND SUM(bonus) > 500;
```

When the above query is executed , which of the following will appear as part of output?

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00:58:21

Finish Test



MCQ QUESTIONS

Database

- 1 2 3
4 5 6
7 8 9
10

```
GROUP BY projectdept HAVING AVG(empsalary) > 20000 AND SUM(bonus) > 500;
```

When the above query is executed , which of the following will appear as part of output?

☐

PROJECTDEPT	AVGSAL	TOTALBONUS
Finance	40000	600

☐

PROJECTDEPT	AVGSAL	TOTALBONUS
ENG	40000	1300
Finance	40000	600

☐

PROJECTDEPT	AVGSAL	TOTALBONUS
ENG	40000	1300

☐

PROJECTDEPT	AVGSAL	TOTALBONUS
Telecom	21667	600
Finance	40000	600
ENG	50000	700

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INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

00:58:14

Finish Test



MCQ QUESTIONS

Database

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Question 3

Consider the following query:

```
SELECT SUBSTR(TO_DATE('01-02-2018','mm-dd-yyyy'),4,3)||'-'|| 2018 month FROM DUAL;
```

What will be the output when the above query is executed?

- ☐

MONTH
JAN-2018
- ☐

MONTH
01-2018
- ☐

MONTH
02-2018
- ☐

MONTH
FEB-2018

You're being proctored!

00:58:11

Finish Test



MCQ QUESTIONS

Database

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Question 4

Consider the tables **customer**, **vehicle** and **booking** given below having the information of the vehicles booked by the customers by paying initial booking amount:

Table:customer

customerid	name
C101	Richard
C102	Jason
C103	Xavier
C104	Albert

Table:vehicle

vehicleid	vehiclemodel
V101	Vespa
V102	Activa
V103	Gusto
V104	Maestro

Table:booking

customerid	vehicleid	bookingid	bookingamount
C101	V104	B101	2000
C102	V102	B102	1500

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00:58:05

Finish Test



MCQ QUESTIONS

Database

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

customerid	vehicleid	bookingid	bookingamount
C101	V104	B101	2000
C102	V102	B102	1500
C103	V102	B103	1000
C104	V101	B104	1400
C101	V101	B105	1000

Query:

```
SELECT name, vehiclemodel, bookingid, bookingamount
FROM customer c INNER JOIN booking b
ON c.customerid = b.customerid AND name LIKE '%a%'
LEFT OUTER JOIN vehicle v ON b.vehicleid = v.vehicleid
WHERE bookingamount > 1300;
```

How many rows will be fetched when the above query is executed?

- ☐ 5
- ☐ 4
- ☐ 2
- ☐ 3

You're being proctored!

00:57:59

Finish Test



MCQ QUESTIONS

Database

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Question 5

Consider the following relational schema:

mobile (mobileid, model, cost, batterylife)

mobileid is the candidate key and following are the functional dependencies:

mobileid -> model, cost

model -> batterylife

Which type of dependency exists in the above relation?

- ☐ Partial dependency
- ☐ Transitive dependency
- ☐ Full functional dependency
- ☐ Relative dependency

Reset

Save

You're being proctored!

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00:57:57

Finish Test



MCQ QUESTIONS

Database

1

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Question 6

Consider the table **consultant** given below:

Table: consultant

id	name	gender	doj	dob	mobnumber
1001	Kristen	F	20-Jan-19	5-Dec-92	8789631235
1002	Michael	M	22-Feb-18	19-Mar-92	NULL
1003	Evan	F	12-Sep-19	21-Jul-93	NULL
1004	Robert	M	8-Apr-19	16-Aug-92	9876584912

Query:

UPDATE consultant **SET** mobnumber = 8967859400 **WHERE** id = 1003;

UPDATE consultant **SET** name = 'Rahim' **WHERE** id = 1002;

DELETE FROM consultant **WHERE** gender = 'F' **AND** dob **LIKE** '%92';

SELECT name, gender, mobnumber **FROM** consultant;

What will be the output when the above statements are executed sequentially?

You're being proctored!

00:57:55

Finish Test



MCQ QUESTIONS

Database

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☐

NAME	GENDER	MOBNUMBER
Rahim	M	NULL
Evan	F	8967859400
Robert	M	9876584912

☐

NAME	GENDER	MOBNUMBER
Kristen	F	8789631235
Evan	F	8967859400

☐

NAME	GENDER	MOBNUMBER
Kristen	F	8789631235
Rahim	M	NULL
Robert	M	9876584912

☐

NAME	GENDER	MOBNUMBER
Robert	M	9876584912
Rahim	M	NULL

You're being proctored!

INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

00:57:50

Finish Test



MCQ QUESTIONS

Database

1

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Question 7

Consider the table `account` given below:

Table: `account`

accountnum	customerid	balance	accttype	status
100001	1001	9999	Savings	Closed
100002	1002	2500	Current	Active
100003	1003	3600	Savings	Active
100004	1004	5800	Savings	Active

Choose the appropriate SQL query to fetch the account numbers of the customers who have an active account with a balance less than the average balance.

- ☐ `SELECT accountnum FROM account WHERE status = 'Active' AND balance IN (SELECT AVG(balance) FROM account);`
- ☐ `SELECT accountnum FROM account WHERE status = 'Active' AND balance < (SELECT AVG(balance) FROM account GROUP BY accountnum, balance);`

You're being proctored!

00:57:49

Finish Test



MCQ QUESTIONS

Database

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Choose the appropriate SQL query to fetch the account numbers of the customers who have an active account with a balance less than the average balance.

- ☐ `SELECT accountnum FROM account WHERE status = 'Active' AND balance IN (SELECT AVG(balance) FROM account);`
- ☐ `SELECT accountnum FROM account WHERE status = 'Active' AND balance < (SELECT AVG(balance) FROM account GROUP BY accountnum, balance);`
- ☐ `SELECT accountnum FROM account WHERE status = 'Active' GROUP BY accountnum HAVING AVG(balance) < (SELECT AVG(balance) FROM account GROUP BY accountnum);`
- ☐ `SELECT accountnum FROM account WHERE status = 'Active' AND balance < (SELECT AVG(balance) FROM account);`

Reset

Save

You're being proctored!

INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

00:57:46

Finish Test



MCQ QUESTIONS

Database

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Question 8

Consider the table **consultation** given below:

Table: consultation

consultationid	department	doctorid	patientid	consultationdate	fees
1001	PED	D901	P901	12-Feb-18	210
1002	ENT	D902	P902	20-Jan-18	110
1003	GYN	D903	P903	20-Feb-18	470
1004	ENT	D904	P901	11-Feb-18	250
1005	OPD	D905	P904	12-Jan-18	300
1006	GYN	D906	P905	12-Mar-18	640
1007	PED	D901	P902	19-Feb-18	270

Query:

```
SELECT consultationid, patientid FROM consultation WHERE  
TO_CHAR(consultationdate, 'MON') = 'FEB' AND fees > 250  
UNION ALL  
SELECT consultationid, patientid FROM consultation  
WHERE department = 'GYN' AND fees <= 640 ORDER BY 1 DESC;
```

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00:57:38

Finish Test



MCQ QUESTIONS

Database

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```
TO_CHAR(consultationdate, 'MON') = 'FEB' AND fees > 250  
UNION ALL  
SELECT consultationid, patientid FROM consultation  
WHERE department = 'GYN' AND fees <= 640 ORDER BY 1 DESC;
```

What will be the output when the above query is executed?

☐

CONSULTATIONID	PATIENTID
1003	P903
1007	P902
1003	P903
1006	P905

☐

CONSULTATIONID	PATIENTID
1007	P902
1006	P905
1003	P903

CONSULTATIONID PATIENTID

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INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

00:57:37

Finish Test



MCQ QUESTIONS

Database

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10



1007	P902
1006	P905
1003	P903



CONSULTATIONID	PATIENTID
1007	P902
1006	P905
1004	P901
1003	P903



CONSULTATIONID	PATIENTID
1007	P902
1006	P905
1003	P903
1003	P903

Reset

Save

You're being proctored!

00:57:34

Finish Test



MCQ QUESTIONS

Database

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Question 9

Consider a MongoDB collection named **item** given below:

```
db.item.insert([{"_id": 1, "description": "Sugar", "price": 60, "discount": 10},
{"_id": 2, "description": "Vinegar", "price": 110, "discount": 15},
{"_id": 3, "description": "Tea", "price": 200, "discount": 20},
{"_id": 4, "description": "Biscuits", "price": 50, "discount": 20},
{"_id": 5, "description": "Coffee", "price": 75, "discount": 5}]);
```

Tom executed the following mongodb statements:

```
db.item.update({'$or': [{'description': "Sugar"}, {'discount': 20}], {'$set': {'discount': 8}});
db.item.remove({'discount': 15});
db.item.find();
```

Which of the following statements will be TRUE when the above statements are executed sequentially?
[Choose TWO correct options]

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00:57:32

Finish Test



MCQ QUESTIONS

Database

- 1 2 3
4 5 6
7 8 9
10

Tom executed the following mongodb statements:

```
db.item.update({'$or': [{'description': "Sugar"}, {'discount: 20}]}), {'$set': {'discount: 8}});  
db.item.remove({'discount: 15});  
db.item.find();
```

Which of the following statements will be TRUE when the above statements are executed sequentially?

[Choose TWO correct options]

- ☐ Two items will have discount of 15
☐ The item collection will have four documents
☐ Two items will have price more than 100
☐ Two items will have discount of 20

Reset

Save

You're being proctored!

00:57:30

Finish Test



MCQ QUESTIONS

Database

- 1 2 3
4 5 6
7 8 9
10

Table: libraryregister

issueid	bookid	issuedate	returndate
10001	1005	15-Jan-18	20-Jan-18
10002	1011	12-Feb-18	20-Feb-18
10003	1006	5-May-19	17-May-19
10004	1020	12-Jan-19	20-Jan-19
10005	1001	25-Dec-18	10-Jan-19
10006	1001	12-Feb-18	20-May-18
10007	1001	12-Jan-19	20-Jan-19

Query:

```
SELECT bookname FROM libraryregister l1, book b WHERE l1.bookid = b.bookid AND EXISTS  
(SELECT 1 FROM libraryregister l2 WHERE l1.issuedate = l2.issuedate AND l1.issueid <>  
l2.issueid AND l1.returndate = l2.returndate);
```

What will be the output when the above query is executed?

☐

BOOKNAME
A Brief History Of Time
Gulliver's travel

You're being proctored!

INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

00:57:28

Finish Test



MCQ QUESTIONS

Database

1

2

3

4

5

6

7

8

9

10

Question 10

Consider the tables **book** and **libraryregister** given below:

Table: book

bookid	bookname
1001	A Brief History Of Time
1005	Hamlet
1006	The Grand Design
1011	Gulliver's travel
1020	Cosmos: A Personal Voyage
1008	War and Peace

Table: libraryregister

issueid	bookid	issuedate	returndate
10001	1005	15-Jan-18	20-Jan-18
10002	1011	12-Feb-18	20-Feb-18
10003	1006	5-May-19	17-May-19
10004	1020	12-Jan-19	20-Jan-19
10005	1001	25-Dec-18	10-Jan-19
10006	1001	12-Feb-18	20-May-18
10007	1001	12-Jan-19	20-Jan-19

You're being proctored!

00:57:21

Finish Test



MCQ QUESTIONS

Database

1

2

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10006	1001	12-Feb-18	20-May-18
10007	1001	12-Jan-19	20-Jan-19

Query:

SELECT bookname **FROM** libraryregister l1, book b **WHERE** l1.bookid = b.bookid **AND EXISTS**
(**SELECT** 1 **FROM** libraryregister l2 **WHERE** l1.issuedate = l2.issuedate **AND** l1.issueid <>
l2.issueid **AND** l1.returndate = l2.returndate);

What will be the output when the above query is executed?

☐

BOOKNAME
A Brief History Of Time
Gulliver's travel
Cosmos: A Personal Voyage

☐

BOOKNAME
A Brief History Of Time
Cosmos: A Personal Voyage

You're being proctored!

INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

00:57:20

Finish Test



MCQ QUESTIONS

Database

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

☐

BOOKNAME
A Brief History Of Time
Cosmos: A Personal Voyage

☐

BOOKNAME
A Brief History Of Time
Gulliver's travel

☐

BOOKNAME
A Brief History Of Time
A Brief History Of Time
Gulliver's travel
Cosmos: A Personal Voyage

Reset

Save

You're being proctored!

00:57:11

Finish Test



MCQ QUESTIONS

Aptitude

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Question 1

Anil borrowed a total of 4000 USD from 2 lenders with simple interest at the rate of 5% p.a. and 7% p.a. respectively.
If the total interest paid for 3 years was 696 USD, how much did he borrow from the 2nd lender (at 7% p.a.)

- ☐ 2400
- ☐ 2000
- ☐ 1600
- ☐ 1800

Reset

Save

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INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

00:57:09

Finish Test



MCQ QUESTIONS

Aptitude

1

2

3

4

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6

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8

9

10

Question 2

A lotion maker has to mix three perfume fragrances - Sage, Musk, White Lily with three moisturizers - Shea butter, Vitamin E and Flower seed Oil - and fill them in 3 boxes - White, Pink and Yellow.

Each perfume must be mixed with one of the lotions.

The mixture containing Sage must be filled in the white box.

Musk is mixed with Vitamin E, but this mixture cannot be filled in the Yellow box.

The mixture containing Shea Butter must be filled in the Yellow box.

The white box consists of which of the following?

- ☐ Sage and Vitamin E
- ☐ Sage and Shea Butter
- ☐ Flower seed Oil
- ☐ None of these

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00:57:08

Finish Test



MCQ QUESTIONS

Aptitude

1

2

3

4

5

6

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8

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10

Question 3

10% of garments produced in a mill are found defective and 20% of the remaining are sold in the mill's factory outlet.

If the remaining 5040 garments are shipped to other retail stores, then the number of garments that were defective was:

- ☐ 700
- ☐ 720
- ☐ 7000
- ☐ 7200

Reset

Save

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INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

00:57:06

Finish Test



MCQ QUESTIONS

Aptitude

- 1 2 3
4 5 6
7 8 9
10

Question 4

Rohit Sharma's score in a T20 game is 4 times the average of his scores in the previous 5 games.

What has been the percentage increase in his average after the 6th game?

- ☐ 33.33%
☐ 37.5%
☐ 50%
☐ 0.55%

Reset

Save

You're being proctored!

00:57:05

Finish Test



MCQ QUESTIONS

Aptitude

- 1 2 3
4 5 6
7 8 9
10

Question 5

A shop stores x kg of rice. The first customer buys half this amount plus half a kg of rice. The second customer buys half the remaining amount plus half a kg of rice. Then the third customer also buys half the remaining amount plus half a kg of rice. Thereafter, no rice is left in the shop. Which of the following best describes the value of x ?

- ☐ $2 < x \leq 6$
☐ $5 < x \leq 8$
☐ $9 < x \leq 11$
☐ $11 < x \leq 15$

Reset

Save

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INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

00:57:03

Finish Test



MCQ QUESTIONS

Aptitude

- 1 2 3
4 5 6
7 8 9
10

Question 6

The average score of Rahul Dravid in a certain number of innings is 43. He then played another 8 innings in which he scored 96, 122, 67, 39, 48, 69, 2. What is the new average of Dravid after those 8 innings

- ☐ Cannot be determined without the total number of innings
☐ New average is higher
☐ New average is lower
☐ New average is same

Reset

Save

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00:57:02

Finish Test



MCQ QUESTIONS

Aptitude

- 1 2 3
4 5 6
7 8 9
10

Question 7

The questions are based on the following data.

Eight persons A, B, C, D, E, F, G and H are sitting around a table.

B is opposite to D, who is next to E.

A is next to B but not opposite E.

From E, A is nearer in clockwise direction.

IF C is to the left of F, but not next to D, then who among the following is opposite to F?

- ☐ E
☐ A
☐ G
☐ F

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INFYTQ SCREENING TEST (PYTHON) 19TH FEB, 2020

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MCQ QUESTIONS

Aptitude

- 1 2 3
4 5 6
7 8 9
10

Question 8

20 men were employed to do some work in a certain time. But when $\frac{1}{3}$ rd of the scheduled time was over, it was found that only $\frac{1}{4}$ th of the total work was completed. How many more men should now be employed to complete the work in $\frac{3}{4}$ ths of the originally scheduled time?

- ☐ 28
☐ 20
☐ 48
☐ 40

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MCQ QUESTIONS

Aptitude

- 1 2 3
4 5 6
7 8 9
10

Question 9

The ink in a pen will last for 12 pages where each page has 32 lines.

How many pages will half the ink last if there are 48 lines per page and there are now 20% less letters per line than in earlier case?

- ☐ 15
☐ 5
☐ 7
☐ Data Insufficient

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00:56:58

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MCQ QUESTIONS

Aptitude

1

2

3

4

5

6

7

8

9

10

Question 10

My age 3 years hence multiplied by 3 and from that subtracted 3 times my age 3 years ago will give you my exact age; how old am I?

- ☐ 18
- ☐ 15
- ☐ 21
- ☐ None of the above

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