Quantitative Ability

Topic: Permutation and Combination

1) What is the maximum number of pieces we can get when a large pizza is cut (by straight line and no stacking) 8 times?

A) 16
B) 37
C) 45
D) 64

Topic: Probability

2) A and B play a game in which they alternately toss a pair of fair dice numbered 1 to 6 on their faces. The one who is first to get a sum value of 7 wins the game. What is the probability that the one who tosses first will win the game?

A) 1/2
B) 5/11
C) 6/11
D) 7/12

Topic: Data Comparison:

3) In the following question mark:

A, if option I is greater than option II.
B, if option II is greater than option I.
C, if both options I and II are equal.
D, if no such relationship between option I and option II can be determined.

For a given amount:

l : Simple interest at 5% p.a. for 10 years.
ll : Compound interest at 20% p. a. for 3 years.

A) A
B) B
C) C
D) D

Analytical Ability

Topic: Data Sufficiency

1) Given below a question followed by 2 statements numbered I and II.

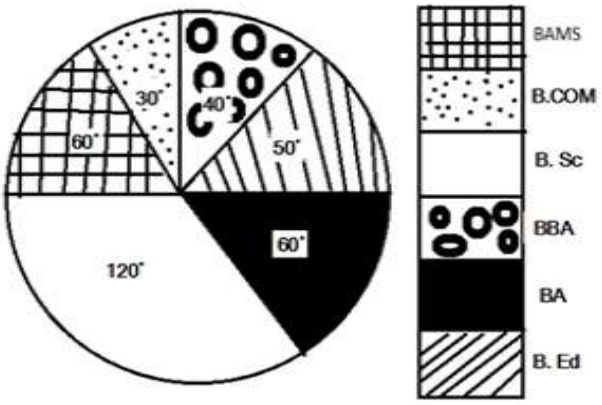
Choose the answer as
(1) If the question can be answered by using statement I alone
(2) If the question can be answered by using statement II alone
(3) If the question can be answered by using both the statements together
(4) If the question can not be answered even by using both the statements

A log of wood is 10 m long. If it is cut into three smaller pieces, what would be the length of each part?

Statement I: One part is 5.6 m long.
Statement II: Two parts are of the same length.

A) 1
B) 2
C) 3
D) 4

Topic: Data Interpretation



Distribution of students in XAVIER college in different courses have been given in the pie chart. The total number of students in that college is 14400

2) How many students are pursuing BBA?

A) 1200
B) 1600
C) 2000
D) 5760

Topic: Analytical Reasoning

3) Five women and one man, named Mukesh including a Geologist, were recently invited as experts to an international conference held at the United Nations on the State of the environment. Read the following clues to answer the questions following it.

A) Aarthi debated Kavitha and the Meteorologist at the beginning of the conference.
B) Mukesh is not the Physicist.
C) Shailaja is not the Urban Planner.
D) Maya is neither the meteorologist nor the Biologist.
E) At the end of the conference, the six experts had a general discussion around a table.

The debaters were: the Physicist, Aarthi, Maya, the Zoologist, the female Urban Planner and Chaya.

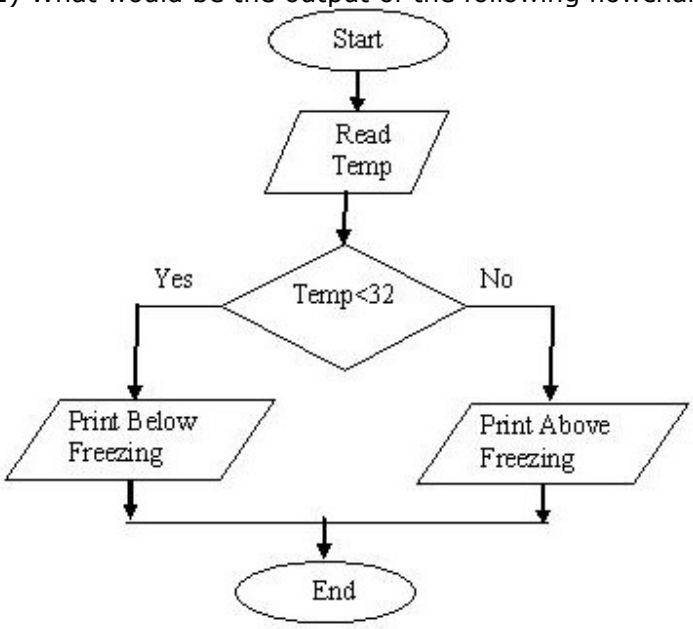
Which of the following combinations is correct?

A) Kavitha - Physicist
B) Aarthi - Urban Planner
C) Shailaja - Physicist
D) Mukesh – Geologist

Programming Ability

Topic: Flow Chart

1) What would be the output of the following flowchart if temp=32?



A) Above Freezing
B) Below Freezing
C) Print Above Freezing
D) Print Below Freezing

Topic: Algorithm

2) Identify the CORRECT algorithm for removing the duplicate values from an array.

A) Step 1: [Initiliazation] Dup = Number [Number of elements in the list]
Step 2: [Set flag] Status = 0
Step 3: [Check and remove duplicates] Remove through Step 8 for cnt1 = 0, 1, 2 ... N - 2
Step 4: Remove through Step 8 for cnt2 = cnt1 + 1, cnt1 + 2, ... N - 1
Step 5: If Array [cnt1] = Array [cnt2] N = N - 1
Step 6: Repeat for cnt3 = cnt2, cnt2 + 1 ... N - 1 Array [cnt3] = Array [cnt3 + 1]
Step 7: [Set Flag] Status = 1
Step 8: cnt2 = cnt2 - 1
Step 9: If Status = 0 Output " No Duplicate is found"
Step 10: [Find total duplicates in the list] Dup = Dup - Number
Step 11: [Return the total duplicates in the list] Return [Dup]

B) Step 1: [Initiliazation] Duplicate = Number [Number of elements in the list]
Step 2: [Set flag] Status = 0
Step 3: [Check and remove duplicates] Remove through Step 8 for I = 0, 1, 2 ... N - 2
Step 4: Remove through Step 8 for J = I + 1, I + 2, ... N - 1
Step 5: If Array [i] = Array [J] N = N - 1
Step 6: Repeat for K = J, J + 1 ... N - 1 Array [K] = Array [K + 1]
Step 7: [Set Flag] Status = 1
Step 8: If Status = 0 Output " No Duplicate is found"
Step 9: [Find total duplicates in the list] Duplicate = Duplicate - Number
Step 10: [Return the total duplicates in the list] Return [Duplicate]

C) Step 1: [Initiliazation] Duplicate = Number [Number of elements in the list]
Step 2: [Set flag] Status = 0
Step 3: [Check and remove duplicates] Remove through Step 8 for I = 0, 1, 2 ... N - 2
Step 4: Remove through Step 8 for J = I + 1, I + 2, ... N - 1
Step 5: If Array [i] = Array [J] N = N - 1
Step 6: [Set Flag] Status = 1
Step 7: J = J - 1
Step 8: If Status = 0 Output " No Duplicate is found"
Step 9: [Find total duplicates in the list] Duplicate = Duplicate - Number
Step 10: [Return the total duplicates in the list] Return [Duplicate]

D) Step 1: [Initiliazation] Duplicate = Number [Number of elements in the list]
Step 2: [Set flag] Status = 0
Step 3: [Check and remove duplicates] Remove through Step 8 for I = 0, 1, 2 ... N - 2
Step 4: Remove through Step 8 for J = I - 1, I - 2, ... N + 1
Step 5: If Array [i] = Array [J] N = N + 1
Step 6: Repeat for K = J, J + 1 ... N - 1 Array [K] = Array [K - 1]
Step 7: [Set Flag] Status = 1
Step 8: J = J + 1
Step 9: If Status = 0 Output " No Duplicate is found"
Step 10: [Find total duplicates in the list] Duplicate = Duplicate - Number
Step 11: [Return the total duplicates in the list] Return [Duplicate]

Topic: Correct Code

3) Which algorithm is used to reverse a given number?

A) Start
```
  r = 0
  Enter n
  while(n >= 1)
    r = (10 * r) + (n %  10)
    n = n / 10
    Truncate n
  End while
  Output r
End
```

B) Start
```
  Enter n
  s = 0
  while(n > 1)
    r = num % 10
    s = s + r
    num = num / 10
  End while
  Output s
End
```

C) Start
```
  Enter N
  COUNT = 0
  for(I = 1; I <= N; I ++)
  {
        if((N % I) == 0)
        {
              COUNT ++
```



```
      }
  }
End
```

D) Start
Enter n

```
for(I = 1; I <= n; I ++)
{
      for(j = 1; j <= I; j ++)
      {
            A = I * j - A;
      }
}
```

Output A
End

Verbal Ability

Topic: Case Relation (preposition)

1) Identify the CORRECT sentence(s) in the following questions
a) There is still no clear word on when the company would start operations.
b) They have been playing continuously in the last eight months.
c) Roads in the city were strewn from tree branches and other debris.
d) The town is on the verge of being cut of from the rest of the state.

A) d
B) a, b
C) b, c
D) a

Topic: Jumbled Sentence

2) Identify the logical order of the following jumbled sentences:

a) Being the product of two different cell lines, some of her eggs carried a genome that was different from the rest of the body.

b) When the test came back, however, Fairchild herself came up as a blank: there was no trace of her DNA in her own children.

c) The reason was that she was a chimera: a case in which two twins had merged into one body early in development.

d) Lydia Fairchild's paternity test was meant to be straightforward, proving to the courts that her two sons' father was the person she said he was.

e) Luckily, at around the same time, a scientific paper reported a similar case in which a woman was apparently not the biological mother of two of her three children.

f) The courts threatened to convict her of illegal surrogacy – they assumed it was a scam to gain benefits

A) dbfeca
B) fdebac
C) cbdfea
D) dfbcae

Topic: Vocabulary / Usage

3) Fill in the blank with the appropriate option:

You _____ come for dinner after you finish your homework.
A) ought
B) would
C) may
D) might

