**Q.1** Write a PHP program to:

a). Accept a name and password in a suitable form.

b). Calculate a score based on password and print it.

Rule for calculation of score is as below:

* Score of any string is sum of score of each character in it.
* Score of Character is there value of digit if it numeric otherwise 1

Ex:

Score (‘#’) = 1,

Score (‘4’) =4

Score (‘0’) =0

Score (‘a’) = 1

**Q.2** Given Table:

|  |  |  |
| --- | --- | --- |
| ID | Name | Amount |
| 1 | Ravi | 10.6 |
| 2 | Chavi | 30 |
| 3 | Kavi | 52.776 |
| 4 | Lavi | 57.9 |
| 5 | Mohit | 70 |
| 6 | Rahul | 55.4 |

Write a SQL Query to select records from above table having amount closest to 56.2

**Q.3**

main()  
{  
static int a[20];  
int i=0;  
a[i]=i++;  
printf(%d%d%d, a[0],a[i],i );  
}   
a. 0 0 0  
b. 0 0 1  
c. 1 1 1  
d. Error  
ans: b

**Q.4** Create a html form for user input with three or four fields and print(echo) on a page.

**Q.5** What is difference between candidate key and super key?

1).If f(x) = (x² - 50), what is the value of f(-5) ?

A. 75    B. 25   C. 0   D. -25   E. -75  
  
2). Helpers are needed to prepare for the fete. Each helper can make either 2 large cakes or 35 small cakes per hour. The kitchen is available for 3 hours and 20 large cakes and 700 small cakes are needed. How many helpers are required?

A. 10   B. 15   C. 20   D. 25   E. 30  
  
3). If f(x) = (x + 2) / (x-2) for all integers except x=2, which of the following has the greatest value?

A. f(-1)   B. f(0)   C. f(1)   D. f(3)   E. f(4)  
  
4). A perfect cube is an integer whose cube root is an integer. For example, 27, 64 and 125 are perfect cubes. If p and q are perfect cubes, which of the following will not necessarily be a perfect cube?

A. 8p   B. pq   C. pq + 27   D. -p   E. (p - q)6  
  
5). A piece of ribbon 4 yards long is used to make bows requiring 15 inches of ribbon for each. What is the maximum number of bows that can be made?

A. 8     B. 9     C. 10   D. 11   E. 12

**Q.1** Given an array of integers, write a program in java to output them in ascending order, that is they must be sorted. For your program assume sample numbers as

int [ ]inputs = {2,4,15,5,9,10,9,10};

**Q.2** Given a number N, Write a recursive function in JAVA to calculate ∑(n\*n-n+7) That is, nth term is n\*n-n+7 , &0

N=1 term = 7, Answer = 7

N=2 term = 9, Answer = 16

N=3 term = 13, Answer = 29

N=4 term = 19, Answer = 48

In your program, assume input N as 7

**Q.3** Write a program in JAVA to find maximum of three numbers

**Q.4** WAP to check whether number is armstrong or not

**Q.5** What is difference between candidate key and super key.

**Q.6**. The number of degrees that the hour hand of a clock moves through between noon and 2.30 in the afternoon of the same day is

A. 720     B. 180     C. 75     D. 65     E. 60  
  
**Q.7**. (3x + 2) (2x - 5) = ax² + kx + n .What is the value of a - n + k ?

A. 5     B. 8     C. 9     D. 10     E. 11

**Q.7**. If the radius of a circle is increased by 20% then the area is increased by :

A. 44%     B. 120%     C. 144%     D. 40%     E. None of the above  
**Q.8**. If the area of two circles are in the ratio 169 : 196 then the ratio of their radii is

A. 10 : 11     B. 11 : 12     C. 12 : 13     D. 13 : 14