**مطلوب حل اسئلة الدوال..... لطلبة المرحلة الثانية....الصباحي والمسائي ..كلية التربية/قسم علوم الحاسبات**

**Q1) W.P to define function to compute area of square?**

**Q2) W.P to define two functions to compute area and circumference of rectangular room ?**

**Q3) W.P to define function to compute area of triangle?**

**Q4) W.P to define function to compute area of circle?**

**Q5) W.P define 2 functions to compute circumference to circle and any triangle?**

**Q6) W.P define 3 functions to read and print two arrays of size (10) ,and third function to merge in new array?**

 **Q7) W.P define 3 functions first to read arrays X(5) Y(6), second to sort X and Y in ascending order , third to print X and Y?**

**Q8) W.P define 3 functions first to read arrays X(5) Y(6), second to sort X and Y in descending oreder , third to print X and Y?**

**Q9) W.P define a function to find value of current (I) for value of voltage V=24 volt and resistance R=3 ohm?**

**Q10) W.P to read the values of four variables then define functions to calculate :**

 **(first function)the airmean (arithmetic mean) from the following equation : airmean= (z1+z2+z3+z4) /4**

1. **(second function )the geomean (geometric mean) from the following** **equation:** **geomean =(z1z2z3z4)1/4**

**Q11) W.P define a function to find the following :**

1. Y=$\frac{1}{3}$ +$\frac{1}{5}+\frac{1}{7}$+$\frac{1}{9}$+…….+$\frac{1}{n}$

**Q12) W.P to compute the value of Y ,where Y = x+**$\frac{x^{2}}{2!}$**+**$\frac{x^{3}}{3!}$ **+**$\frac{x^{4}}{4!}$**+….+**$\frac{x^{n}}{n!}$**?**

 **define two functions :first function to compute value of power , second function to compute value of factorial ?**

**Q13) W.P define functions to each of the following :**

1. **Read a list of integer number?**
2. **Test each number if prime or not?**
3. **Print all prime number in a list ?**

**Q14) W.P to compute Fibonacci number (integer sequence)**

 **1,1,2,3,5,8,13,21,34,55,89**

**Q15) W.P to read a list of size (10) ,then define a function shift list to left two locations?**

**Q15) W.P define functions to :**

1. **Read a list of size (10)?**
2. **Split above list in to two sub list at the same of size ?**

**Q16) W.P defines a function to find the sum of digits in a number?**

**Q17) W.P defines a function to read a date and find the next date?**

**Q18) W.P defines a function to convert decimal number to octal number?**

**Q19) W.P to find the value of Y ,where :**

 **Y=** $\sum\_{j=1}^{n} z\_{j}^{2}+5$

**Q20) W.P define a function to compute m\*n without using \* symbol?**