

**AMAL COLLEGE OF ADVANCED STUDIES, NILAMBUR**  
**THIRD SEMESTER B.COM DEGREE PROGRAMME**  
**INTERNAL TEST 1- AUG 2011**  
**BASIC NUMERICAL SKILLS**

Time: 1 ½ Hours

Weight: 15

Answer all. A bunch of four questions carries 1 weight ( $8 * \frac{1}{4} = 2$ )

1. Information are collected from third parties who are in touch with the facts under enquiry. This method of collecting primary data is known as-----  
a. Direct personal investigation      b. Indirect oral investigation      c. Local correspondents
2. Which of the following is an example for attributes  
a. Height      c. Age      d. Education
3. The value exactly at the middle of a class interval is called.....  
a. Class limit    b. Class mark    c. Class interval
4. Under -----, Each set of variables is represented by a set of bars placed close to each other  
a. Simple bar diagram      b. Multiple bar diagram      c. component bar diagram
5. A continuous frequency distribution can be represented graphically by a smoothed curve known as .....
6. .... is the most widely used measure of central tendency.
7. .... Is that value of the variable which divides the values of the variable into two equal parts
8. The intersection of less than ogives and more than ogives is known as -----

Answer all. Each carries 1 weight ( $3 * 1 = 3$  weights)

9. Define statistics
10. What is mean by variable?
11. What do you mean by secondary data?

Answer any three. Each carries 2 weights ( $3 * 2 = 6$  weights)

12. Briefly explain the uses and limitations of graphs and diagrams
13. Draw the histogram for the following data and super impose a frequency curve on it.  
Classes:      5-9      10-14      15-19      20-24      25-29      30-34      35-39  
Frequency:      8      15      18      30      16      12      6
14. Find the arithmetic mean from the following distribution using 5 as assumed average  
Size:    10-8    8-6    6-4    4-2    2-0  
Freq:    10    8    6    4    2
15. The mean wage of 150 labourers working in a factory running three shifts of 60, 40 and 50 labourers is Rs 114/-. The mean wage of 60 labourers working in the first shift is Rs 107.75/-. The mean wage of labourers working in the third shift is Rs 110/-. What is the mean wage for second shift.

Answer any One. It carries 4 weights (1\*4 =4 weights)

16. a) Explain mode. State its advantages and disadvantages

b) Calculate mode. (use grouping and analysis method)

Size:	10-19	20-29	30-39	40-49	50-59	60-69	70-79
Freq	10	12	18	30	16	6	8

17. a) Explain median. State its advantages and disadvantages

b) Calculate Median

Wage (less than)Rs:	10	20	30	40	50	60	70	80
No of workers	15	35	60	84	96	127	198	250