

3a. Consider the following data on the sales by 90 sales representatives:

Sales (N'000s)	No. of Sales Reps.(f)
10-15	10
16-21	36
22-27	28
28-33	10
34-39	6

Calculate the modal value of sales. **8marks**

b. Discuss six methods of data collection. **12marks**

4. The board of directors of Zonbi Nig. Plc. agrees to redeem some of its bonds in 2 years. At that time, N1, 102,500 will be required for the redemption. Assume N1, 000,000 is presently set aside. At what compound annual rate of interest will the N1, 000,000 have to be invested in order that its future value will be sufficient to redeem the bonds? **10marks**

b. State and explain two basic methods of solving quadratic equation. **10marks**

5. Assume that a business project is being considered, with initial costs of N12,000 and corresponding revenues or inflows over the following 4 years of N8,000, N12,000, N10,000, and N6,500, respectively. If the project costs (outflows) over the 4 years are estimated at N8,500, N3,000, N1,500, and N1,500, respectively, and the discount rate is 10 percent, evaluate the project's Net Present Value (NPV). **20marks**