CHEMISTRY OBJECTIVE QUESTIONS AND ANSWER -I

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1.which of the following is not a eletroanalytical methods

a) Coulometry   b) Potentiometry

c) Polarography   d) Nephelometry

2. choose the wrong statement from the following regrading the sensitivity of an analyticaly method

a) It is the ratio of change in tha response to the change in the concentration

b) S=dR/dc   c) It depends upon the exprimental condition   d) It deponds upon the nature of the instrument.

3.Choose the personal errors from in the following
1) Errors in reading the burette
2) Improper washing of a precipitate
3) Insufficient cooling of crucible before waiting
4) Graduated glassware and other instrument.
a) 1, 4   b) 2,3,4   c) 1,2,3 d) 1,2,3,4.

4.The result of an analysis was determind as 15.752g while the accepted value was 15.872g. The absolute error and relative error are
a) 0.120, 7.56   b) 0.120,75.6
c) 7.56,0.120   d) 1.20,7.50

5. Relative error is expressed interm of

a) ppm   b) ppt

c) percentage   d) pph

6. Precision may be expressed as

a) The standard deviation

b) The co-efficient of variation

c) A confitence interval

d) All the these

7. Which of the following is not classical methods

a) Gravimetric analysis   b) DTA

c) Volumetry   d) Amperometry

8. The mean deviation (d) is

a) $\Sigma|Mn-M)|/n$ b) $\Sigma|Mn+M)|/n$

c) $\Sigma|M-Mn)|/n$ d) $\Sigma|MxMn)|/n$

9. The mean value a certain data is 40.627 and mean deviation is 0.070. The relative mean deviation is

a) 1.5%

b) 0.15%

c) 15.%

d) 0.015%

10. The standard deviation (S) is

a) $\sqrt{\Sigma(x-\bar{x})^2/n+1}$

b) $\sqrt{\Sigma(\bar{x}-x)^2/n-1}$

c) $\sqrt{\Sigma(x-\bar{x})^2/n-1}$

d) $\sqrt{\Sigma(x+\bar{x})^2/n+1}$

11. The standard deviation is 0.091 for given 9 datas. The average standard deviation is
a) 0.030　　　　　　　b) 0.9
c) 0.3　　　　　　　　d) 0.09

12. The mean and standard deviation are 7.13% and 0.045% respectively. The co-efficient variation is
a) 15.8%　　　　　　b) 0.63%
c) 6.3%　　　　　　　d) 0.0063%

13. The compounds with low Rf values can be completely separated by

a) Descending technique   b) Ascending technique

c) Radial or circular pc   d) None

14. The stationary phase in chromatography includes

a) Aqueous system   b) Hydrophilic system

c) Hydrophobic system   d) All

15. Paper Chromatography is paticularly suited to

a) Ion exchange   b) Adsorption

c) Partition   d) Molecular sieving

ALL OF THE ABOVE QUESTIONS ARE ANSWERED
IN
GREEN COLOUR