

T. Y. B. Sc. Sem. VI Analytical Chemistry Mock Questions and Answer key

- 1) Polarizable electrode is also called as -----
A).Saturated Calomel Electrode
B).Platinum Electrode
C).Macroelectrode
D).Microelectrode
- 2). What is the range of dropping mercury electrode w.r.t saturated calomel electrode?
A).+4 volt to -2 volts
B).+0.4 volt to -0.4 volt
C).+0.4 volt to 0 volt
D).+0.4 volt to -2 volt
- 3). Many metals dissolve in mercury forming _____
A).insoluble salts
B).Salts
C).Cations
D).Amalgam
- 4). Amperometry is based on measurement of _____ as a function of applied potential.
A).Voltage
B).Conductance
C).pH
D).Current
- 5). The anode in polarography is usually _____.
A).Calomel electrode
B).Dropping Mercury electrode
C).Platinum electrode
D).hydrogen electrode
- 6). Cationic exchanger possesses _____ functional groups .
A).acidic
B).amino
C).basic
D).neutral
- 7). In an ion-exchange resin cross-linking _____ its solubility in water .
A).increases
B).decreases
C).doubles
D).Triples
- 8). The number of theoretical plates is ----- related efficiency of the column.
A).Directly

- B).Inversely
- C).Equally
- D).Not in particular pattern

9).In the flame ionization detector, _____ is used as the carrier gas.

- A).nitrogen

- B).helium
- C).hydrogen
- D).Carbon dioxide

10). The sample size in GC is _____ .

- A).1 to 10 μL

- B).1 to 2 ml
- C).1 to 2 μg
- D).0.1 to 2 ml

11). The content in milk is _____ .

- A).Caffeine

- B).tannin
- C).lactose
- D).polyphenols

12). Which of the following methods is used for estimation of reducing sugar in honey ?

- A).Cole's Ferricyanide

- B).Bailey Andrew method
- C).Lane Eynon method
- D).none of above

13). _____ is present in tea .

- A).polyphenol

- B).lactose
- C).reducing sugar
- D).benzoic acid

14).Acetic acid is main component of _____ .

- A).polyphenols

- B).pH- control
- C).Vinegar
- D).caffeine

15)._____ used to prevent browning reaction in food.

- A).sulphur dioxide

- B).boric acid
- C).irradiation
- D).Pasturization

16)._____ curve can distinguish between crystalline and amorphous polymer.

- A).DTA
- B).DSC
- C).TGA
- D).None of above

17). Calcium oxalate losses water of crystallization at _____ degree centigrade .

- A).420
- B).220
- C).100
- D).50

18). The reaction of Ca with EDTA is _____ .

- A).colourmetric
- B).endothermic
- C).exothermic
- D).none of above

19).----- is essential for thermometric titrations.

- A).Volumetric flask
- B).Dewar flask
- C).conical flask
- D).Kjeldahl's flask

20). Pyrolysis curve is nothing but _____ curve .

- A).TT
- B).TGA
- C).DSc
- D).DTA

ANSWER KEY

Q.no.	Correct option
1	D
2	D
3	D
4	D
5	A
6	A
7	B
8	A
9	C
10	A
11	C
12	A
13	A
14	C
15	A
16	A
17	C
18	C
19	B
20	B