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Arts-Science & J. Shah Commerce  
College, Dakor Online Internal  
Examination, October - 2020 B.Sc.  
CHEMISTRY (Semester – V ) Paper Code :  
US05CCHE24 Paper Name : Analytical  
Chemistry

Date :08/10/2020

Time : 12:00 to 12:30 pm

Total Marks: 30

\* Required

1. Name \*

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2. Email

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3. Roll number \*

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4. Mobile number \*

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5. Class \*

*Mark only one oval.*

B.Sc.

B.Com.

B.A.

6. Semester \*

*Mark only one oval.*

I

III

V

Multiple choice questions

US05CCHE24

7. 1= ..... Is the phase that is fixed in a place. \*

*Mark only one oval.*

Mobile phase

Stationary phase

a and b both

None of these

8. 2= Chromatography is mainly ..... Technique. \*

*Mark only one oval.*

- TLC
- Paper
- Separation
- Association

9. 3= column chromatography is used the for the identification of ..... \*

*Mark only one oval.*

- Mix compound
- Color pigment
- Colourless pigment
- All of these

10. 4= In GLC what is stationary and mobile phase. \*

*Mark only one oval.*

- Gas - liquid
- Liquid- gas
- Gas - gas
- Liq- liq

11. 5= In ion exchange Chromatography what is stationary and mobile ..... Phase . \*

*Mark only one oval.*

- Solid - liq
- Solid- solid
- Liq- liq
- Liq- solid

12. 6= how many type of chromatography? \*

*Mark only one oval.*

- 7
- 6
- 5
- 4

13. 7= To identify and quantified in a given mixture is called..... \*

*Mark only one oval.*

- TLC
- Paper
- HPLC
- All above

14. 8=In GC technique which type of colomn is used?? \*

*Mark only one oval.*

- Glass
- Plastic
- Rubber
- None of these

15. 9=In GC technique which type of Carrier Gas is used?? \*

*Mark only one oval.*

- H2
- O2
- N2
- Cl

16. 10= organic- mixture is purified by HPLC on the basis of... \*

*Mark only one oval.*

- Polarity
- Normality
- Molality
- All above
- Other: \_\_\_\_\_

17. 11= what is range of Rf value in TLC? \*

*Mark only one oval.*

- 1
- 2
- 3
- 1-2
- 0.05 - 0.85

18. 12= normally which type of slide used in TLC? \*

*Mark only one oval.*

- Glass slide
- Aluminum base
- Plastic slide
- All of these

19. 13= solvent will be randomly run in TLC because ..... \*

*Mark only one oval.*

- Do not exactly past s.p
- Low concentration
- High concentration
- None of these

20. 14= isocratic solution process mainly used the ..... Solvent \*

*Mark only one oval.*

- None polar
- Polar
- Both a and b
- None of these

21. 15= In TLC technique colourless sample is developed by ..... \*

*Mark only one oval.*

- Acid treatment
- Past treatment
- Uv light
- All of these

22. 16= what is the temperature of oven in G.C? \*

*Mark only one oval.*

- 300°c
- 700°c
- 500°c
- 1000°c

23. 17= In HPLC what is the nature of hydrophilic solvent? \*

*Mark only one oval.*

- Attractions of H<sub>2</sub>O
- Repulsion of H<sub>2</sub>O
- Attractions of HCL
- All of these

24. 18= In column chromatography mixture is generally separated by ..... Method \*

*Mark only one oval.*

- AKTA purifier 1000 UPC
- Manually
- UV method
- All of these

25. 19= How many type of paper chromatography ? \*

*Mark only one oval.*

- 1
- 2
- 3
- 4

26. 20 = ..... Carrier the mixture of the component in G.C \*

*Mark only one oval.*

- Mobile phase
- Stationary phase
- H<sub>2</sub>
- N<sub>2</sub>

27. 21= For the study of distribution law, the two solvent should be ..... \*

*Mark only one oval.*

- Immiscible
- Miscible
- Volatile
- All of these

28. 22= when succinic acid or oxalic and shaken with ether and water it ..... Water \*

*Mark only one oval.*

- Remains insoluble
- dissociates in to ions
- No change
- All of these

29. 23= Masking agent is known is ..... \*

*Mark only one oval.*

- Sequestering agent
- Synergetic agent
- Salting out agent
- All of these

30. 24= The greater the distribution ratio in favor the organic solvent the ..... Will be amount extracted in any one operation. \*

*Mark only one oval.*

- Lesser
- equal
- greater
- All of these

31. 25= ..... Is commonly used as modifiers. \*

*Mark only one oval.*

- ethanol
- Capryl alcohol
- Methanol
- All of these

32. 26= which technique is used when the distribution ratio of the solute is large ? \*

*Mark only one oval.*

- Batch process
- Continues process
- Counter current process
- All of these

33. 27= .....factors that promote rate and selectivity of an extraction process. \*

*Mark only one oval.*

- By proper choice of extractant
- By controlling the pH of the solution
- By controlling the temperature
- All of the

34. 28= ..... Extractant is heavier than water \*

*Mark only one oval.*

- Benzene
- Toluence
- Chloroform
- All of these

35. 29= The partition coefficient depends on the following important factors \*

*Mark only one oval.*

- Nature of solvent
- Volume of solvent
- Pressure of solvent
- None of these

36. 30= The process of extraction is more economical if it is carried out in ..... operation. \*

*Mark only one oval.*

- One
- Several
- Two
- Three

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