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Sample MCQs for students of Semester IV Analytical Chemistry

Paper I (CHEM 441)

Q. Nos.		
1.	What does QA and QC stand for?	
	a) Quality assurance and Queuing control	b) Quality adjustment and Quality completion
	c) Quality assurance and Quality control	d) Quality adjustment and Queuing control
2.	What is QA?	
	a) It is the measurement of degree to which a product satisfies the need	
	b) Any systematic process used to ensure quality in the process	
	c) Process of identifying defects	
	d) It is a corrective tool	
3.	Which one of these is a physicochemical property of Drug substance?	
	a) Drug solubility	b) Disintegration time
	c) Age of patient	d) Dissolution time
4.	Which form of drug formulation has disintegration time?	
	a) Injections	b) Syrups
	c) Capsules and Tablets	d) Only tablets
5.	Which one is the correct sequence for drug absorption through the oral route?	
	a) Absorption – Dissolution – Disintegration – Deaggregation	
	b) Disintegration – Dissolution – Deaggregation – Absorption	
	c) Disintegration – Deaggregation – Dissolution – Absorption	
	d) Disintegration – Deaggregation – Absorption – Dissolution	

Paper II (CHEM 442)

Q. Nos.	
6.	Which of the following is used in electron microscope?

	a) Electron beams	b) Magnetic fields
	c) Light waves	d) Electron beams and magnetic fields
7.	The secondary electrons radiated back in scanning electron microscope are collected by?	
	a) Specimen	b) Anode
	c) Vacuum chamber	d) Cathode
8.	The advantage of the ICP-AES technique over conventional AES analysis is that:	
	a) Multi-element analysis can be performed in one run	
	b) Multi-element analysis can be performed in sequential runs	
	c) Several atomic absorption spectra can be recorded simultaneously	
	d) Analysis of a single metal is faster	
9.	Which of the following is not correct about High pressure liquid chromatography (HPLC)?	
	a) It requires high pressure for the separation of the species	
	b) There is no need to vaporize the samples	
	c) It is performed in columns	
	d) It has high sensitivity	
10.	Quantum dots is widely used in the following research field-	
	a) Crystallography	b) Mechanics
	c) Optoelectronics	d) Quantum physics

Paper III (CHEM 443)

Q. Nos.		
11.	Potassium pyrosulphate is	
	a) A basic flux	b) Used as a flux for bauxite
	c) Used in nickel crucible for fusion	d) Used for fusion of ilmenite
12.	In the determination of molybdenum in steel by a spectrophotometric method using thiocyanate	
	a) Stannous chloride is added to reduce molybdenum	
	b) Carbontetrachloride is added to extract molybdenum	
	c) It is extracted from an alkaline solution	
	d) Stannous chloride influences colour formation of molybdenum complexes with thiocyanate	

13.	The available Phosphorus in a sample of fertilizer is-	
	a) Citrate insoluble phosphorus	b) Difference between total phosphorus and citrate insoluble phosphorus
	c) Equivalent to total Phosphorus	d) The different forms of phosphorus present in fertilizer
14.	In determination of organic carbon in soil potassium dichromate is added in presence of sulphuric acid	
	a) To oxidise organic matter	b) To remove the interfering substances
	c) To reduce the organic matter	d) As a catalyst
15.	The ash value is	
	a) Used to assess quality of tea	b) The organic residue in food
	c) Fibre in food	d) Insignificant in analysis of tea

Optional Course

16	<p>The literature review will examine</p> <p>a) Only opinions b) Only one side of the main argument. c) Only facts d) All aspects of a topic.</p>
17	<p>The starting point for a literature search is:</p> <p>a) Tertiary data b) Primary data c) Secondary data d) Some other data</p>
18	<p>Which of these will not help you to decide whether a publication is reputable?</p> <p>a) Citation rate b) Audience c) Advertising inside d) Importance of peers</p>
19	<p>Temperature (°C) is example -----variable</p> <p>a) Nominal variable b) Ordinal variable c) Interval variable</p>

	d) Ratio
20	The most common data point is called a) Mean b) Mode c) Median d) Variance
21	Which of these is not important in an oral presentation? a) Words b) Body language c) Gestures d) The number of people as audience.
22	Which of these is the best way to establish a proper rapport with audience? a) Pointing a finger b) Making eye contact c) Waving your hands d) Standing erect.
23	Which of these must be avoided in any presentation? a) Proper grammar b) Complex words c) Short sentences d) Clear voice
24	What is full form of MSDS Sheet? a) Material safety data sheet b) Material service data sheet c) Molecular safety data sheet d) Manufacturer service data sheet