

Q. No	Question	Correct Ans	Option1	Option2	Option3	Option4
1	Main constituents of German silver are	Copper, zinc and nickel	Copper and zinc	Copper and silver	Silver and zinc	Copper, zinc and nickel
2	Pitch-blende is a source of which metal	Uranium	Silver	Copper	Uranium	Palladium
3	Alcoholic drinks are covered under which Act?	Excise Act	NDPS Act	Drug and Cosmetic Act	Excise Act	Essential Commodity Act
4	Which of the following test is used for testing methanol?	Chromotropic acid test	Iodoform test	Fujiwara test	Chromotropic acid test	Legals test
5	Which poison is extracted by steam distillation ?	Nicotine	Atropine	Nicotine	Cocaine	Strychnine
6	Ethyl mercaptan is used in	LPG	Petrol	LPG	Kerosene	Naphtha
7	Final boiling point of kerosene in the distillation test method as per Bureau of Indian Standard is	Maximum 300 degree C	Maximum 300 degree C	Maximum 320 degree C	Maximum 340 degree C	Maximum 360 degree C
8	To develop pink colour of phenolphthalein in trap cases which alkali is used?	Sodium carbonate	Sodium bicarbonate	Ammonium hydroxide	Sodium carbonate	calcium hydroxide
9	IED stands for	Improvised Explosive Device	Imported Explosive Device	Improvised Explosive Device	Improved Explosive Device	Indian Explosive Device
10	Explosive range for gasoline is	1.4 - 7.6 per cent	1.4 - 7.6 per cent	7.6 - 10.0 per cent	1.0 - 1.4 per cent	10.0 - 11.4 per cent
11	Major constituent of IMFL liquid	Water	Ethyl alcohol	Water	Methyl alcohol	Acetone
12	Most appropriate container for packing in arson cases is	Tin box	Cloth packing	Polythene bag	Tin box	Plastic box
13	Which dye belong to azodye group	Methyl orange	Methyl orange	Malachite green	Eosin	Phenolphthalein

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14	Which of the following pesticide is rodenticide?	Thallium salt	Lindane	Earbaryl	Allethrin	Thallium salt
15	What is the approximate normality of 96% sulphuric acid having specific gravity 1.84?	36	17	36	11	38
16	Which of the following is NOT high explosive?	Black powder	Dynamite	Black powder	PETN	Lead azide
17	One of the colour test used for explosive is	Diphenylamine reagent	Furtural reagent	Acetaldehyde reagent	Diphenylamine reagent	Potassium chromate
18	Deadly night shade plant refers to	Atropa Belladona	Strychnos nux vomica	Cannabis sativa	Atropa Belladona	Abrus precatorious
19	Kif' is known for	Cannabis	Cocaine	Cannabis	Heroin	Amphetamine
20	Duquenois Levine test is a valuable test for testing	Cannabis	Opuim and its derivatives	Coca plant	Mushroom	Cannabis
21	Which of the following instrumental techniques does NOT give specific identification of drugs?	UV-visible spectrophotometry	UV-visible spectrophotometry	GC-Mass	FTIR	Raman spectroscopy
22	Which of the chemical is used for manufacturing of heroin from morphine?	Acetic anhydride	Sodium chloride	Acetaldehyde	Acetic anhydride	Malonic acid
23	Porapak column in GLC is most suitable for analysis of-	Alcohols	Alcohols	Hydrocarbons	Polymers	Alkaloids
24	Scientist Egon Stahl is related to	Thin layer chromatography	Gas chromatography	Spectrophotometry	HPCL	Thin layer chromatography
25	Retention Index is related to which instrumental technique ?	Gas chromatography	UV-visible spectrophotometry	FTIR	Gas chromatography	SEM
26	Nitro group is present in which of the following pesticides?	Parathion	Malathion	Parathion	Baygon	Cypermethrine

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27	In elutropic series the solvents are arranged in increasing order of	Dielectric constant	Boiling point	Molecular weight	Dielectric constant	Viscosity
28	Mayers reagent is NOT used for detecting	Benzodiazepine	Opioid alkaloid	Atropine	Benzodiazepine	Cocaine
29	In the mixture containing codeine and thebaine by which technique each can be identified?	GC-Mass	Colour test	UV-spectrophotometry	GC-Mass	Mass spectrometry
30	Which of the solvent cannot be used in preparation of sample for UV-spectrophotometric study?	Benzene	Ethanol	Water	Benzene	Cyclohexane
31	E (1%) value means	Absorption of light by 1% solution	Emission of light by 1% solution	Absorption of light by 1% solution	Reflection of light by 1% solution	Scattering of light by 1% solution
32	Which of the following poisons contain Strychnine ?	Nux vomica	Nux vomica	Aconite	Datura	Cannabis
33	2.50 micrometer is equivalent to	4000 cm^{-1}	3000 cm^{-1}	4000 cm^{-1}	2500 cm^{-1}	2000 cm^{-1}
34	Source of radiation in UV spectrophotometer is	Deuterium lamp	Nichrome wire	Tungsten lamp	Deuterium lamp	Mercury lamp
35	Normal phase in HPLC means	Polar stationary phase and non polar mobile phase	Polar stationary phase and non polar mobile phase	Polar Stationary phase and polar mobile phase	Non Polar stationary phase and more polar mobile phase	Non Polar stationary phase and non polar mobile phase
36	Which gas was responsible for mass killing in Bhopal tragedy ?	Methyl isocyanate	Hydrogen sulphide	Sulphur dioxide	Methyl isocyanate	Mustard gas
37	Most suitable technique for detection of adulteration of petrol with kerosene is	Gas Liquid Chromatography	HPLC	UV spectrophotometer	ICP	Gas Liquid Chromatography
38	When the NDPS Act came in to force ?	1985	1985	1980	1984	1945
39	What is the Octane Number of Iso-octane ?	100	91	93	100	98

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40	SE-30 column of Gas chromatography has stationary phase of	Methyl silicone	Phenyl silicone	Methyl silicone	Polyethylene glycol	Silica
41	Antidote for organophosphorus pesticide is	Atropine	Atropine	Strychnine	Amphetamine	Pethidine
42	In which technique generally separate Cathode lamp is required for each element	AAS	ICP	ICP-MS	AAS	ICP-OES
43	Frequency corresponding to 500 nm is equivalent to	6×10^{14} Cycles per Sec	6×10^{14} Cycles per Sec	5×10^3 Cycles per Sec	2×10^{12} Cycles per Sec	5×10^{16} Cycles per Sec
44	Impure camphor is purified by	Sublimation	Filtration	Sedimentation	Sublimation	Steam distillation
45	Bathochromic shift is also known as	Red shift	Blue shift	Black shift	White shift	Red shift
46	Purity of a compound can be decided by	Melting point	Density	Melting point	Dielectric Constant	Molarity
47	In UV-spectrophotometric study the cuvette is made of	Quartz	Glass	Quartz	Sodium chloride	Mixture of glass and quartz
48	Which of the following molecule exhibit IR spectra?	Carbon monoxide	Hydrogen	Nitrogen	Oxygen	Carbon monoxide
49	How many peaks (signals) are obtained for ethyl chloride in NMR?	2	2	3	4	5
50	Which rule is common for predicting splitting pattern in NMR	(n+1) rule	(n+1) rule	(2n+1) rule	(4n+1) rule	(m+n) rule
51	Carbon 12 nuclei is NOT magnetically active because its spin number is	Zero	1/2	2	Zero	3/2
52	In NMR common internal reference is	TMS	TMS	DMS	CMS	NMS

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53	Which is NOT suitable Hyphenated technique ?	AAS-LC	GC-IR	LC-MS	GC-MS	AAS-LC
54	Select the one by which RF value will NOT change by changing	Size of TLC Chamber keeping other factors same	Absorbent nature	Polarity of solvent system	Increasing temperature	Size of TLC Chamber keeping other factors same
55	which one is correct for Neutron Activation Analysis ?	Non destructive technique	Destructive technique	Non destructive technique	Less sensitive technique	used for liquid sample only
56	Retention time in gas chromatography is	Time taken by solute from injection to reach detector	time taken in injecting sample	Time taken by carrier gas to come out of column	Time taken to achieve desired temperature of column	Time taken by solute from injection to reach detector
57	Power alcohol consist of	Mixture of ethanol and petrol	Ethanal 99.9 percent	Mixture of ethanol and methanol	Mixture of ethanol and petrol	Pure methanol
58	For testing lead which reagent is used	Sodium Rohdizonate	Sodium Rohdizonate	Alpha benzoin oxime	Alpha Alpha dipiridyl	Alizarin Red
59	For testing nitrate in presence of nitrite, the nitrite is removed by	Sulfamic acid	Sulphanilic acid	Sulphuric acid	Sulfamic acid	Alpha naphthyl amine
60	Select the one which belongs to benzodiazepine group ?	Clonazepam	Zolpidem	Ketamine	Pethidine	Clonazepam
61	Standard solution of 5 ppm means	0.005 mg per ml	5 mg per ml	50 mg per litre	0.005 mg per ml	500 mg per litre
62	10 bar is equal to how many Pascal ?	10×10^5	10×10^5	100×10^5	1×10^5	0.01×10^5
63	Best sample for analysis of alcohol for punishing the person which can stand in the Court of law is	Blood	Perspiration	Blood	Urine	Breath
64	What is the small quantity for Charas as per NDPS Act?	100 gram	25 gram	100 gram	250 gram	10 gram
65	Quaternary ammonium compounds are highly soluble in	Water	Chloroform	Acetone	Water	Ethyl acetate

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66	Metabolite of ethyl alcohol is	Acetaldehyde	Formaldehyde	Formic acid	Acetaldehyde	Acetone
67	Which of the following cause chronic poisoning ?	Arsenic salt	Potassium Cyanide	DDT	Arsenic salt	Lead salt
68	Nin hydrine reagent is used for detection of	Primary amine	Secondary amine	Quarternary amine	Primary amine	Tertiary amine
69	Which one is NOT Phase 1 metabolic reaction ?	Acetylation	Oxidation	Acetylation	Hydrolysis	Reduction
70	In case of snake bite poisoning which one is suitable sample for analysis ?	Blood	Stomach and its contents	Liver	Kidney	Blood