

1. Gram positive bacteria
 - (A) Retain crystal violet & hence appear deep violet in colour
 - (B) Lose crystal violet & hence appear transparent
 - (C) Lose crystal violet & are counterstained by safranin & hence appear red in colour
 - (D) Lose crystal violet & are counterstained by safranin & hence appear green in colour

2. Fractional sterilization method involves
 - (A) Heating the material at 121 °C & 15 lb/in² pressure
 - (B) Heating the material at 160 °C for 2 hours
 - (C) Heating the material to 100 °C on 3 consecutive days with incubation periods in between
 - (D) Heating the material to 105 °C for 1 hour

3. In the microbiological assay of Bacitracin IP, the test organism used is
 - (A) Staphylococcus aureus
 - (B) Staphylococcus epidermis
 - (C) Micrococcus luteus
 - (D) Bacillus pumilus

4. Hybridoma is
 - (A) The fusion of a cancer cell & an antibody making cell
 - (B) The fusion of a cancer cell & an antigen
 - (C) The fusion of a non-cancerous cell & an antibody making cell
 - (D) The fusion of a non-cancerous cell & an antigen

5. The oral Sabin vaccine contains
 - (A) Killed poliomyelitis virus
 - (B) Live virus
 - (C) Killed cells of Salmonella typhi
 - (D) Chemically treated Corynebacterium diphtheria

6. Log P value is a measure of
 - (A) Ionization potential of a molecule
 - (B) Solubility characteristics of the entire molecule
 - (C) Acid/base properties of a molecule
 - (D) Binding interactions

7. Donepezil is
- (A) a centrally acting reversible, non-competitive Acetylcholine esterase inhibitor
 - (B) is an imidazoline α - antagonist
 - (C) is a 5 HT_{1A} antagonist
 - (D) a selective α_1 -adrenergic blocker
8. During conjugation the genetic material will be transferred through
- (A) Cell wall
 - (B) Medium
 - (C) Pili
 - (D) Capsule
9. Primary mediators in anaphylaxis
- (A) Histamine
 - (B) Serotonin
 - (C) Heparin
 - (D) All of the above
10. Papain and opium can be grouped as
- (A) Dried juice
 - (B) Dried latex
 - (C) Resins
 - (D) Dried extract
11. Which of the following auxin occurs naturally in plants ?
- (A) Indole acetic acid
 - (B) Naphthyl acetic acid
 - (C) Indole butyric acid
 - (D) Indole-3-acetonitrile
12. Leaf spot disease is due to
- (A) *Ascochyta atropa*
 - (B) *Cercospora atropa*
 - (C) *Fusarium solanii*
 - (D) *Phytophthora nicotiana*

13. Alkaloidal extraction process was developed by
- (A) Ardy-Gallows
 - (B) Stass-otto
 - (C) Verma-Kaushik
 - (D) Bentham-Hooker
14. Salicin is obtained from
- (A) *Stropanthus gratus*
 - (B) *Strychnus nux-vomica*
 - (C) *Withania somnifera*
 - (D) *Salix sepulcralis*
15. *Astragalus gummifer* is the main source of
- (A) Agar
 - (B) Gelatin
 - (C) Tragacanth
 - (D) Starch
16. Melting point of coca butter is
- (A) 20 °C
 - (B) 25 °C
 - (C) 35 °C
 - (D) 50 °C
17. Asafoetida obtained from the species of
- (A) Ferula
 - (B) Styrax
 - (C) Andrographis
 - (D) Myroxylon

18. Caffeine is identified by
- (A) Klung's test
 - (B) Millons test
 - (C) Murexide test
 - (D) Wagners test
19. French chalk is the synonym of
- (A) Chalk
 - (B) Talc
 - (C) Fueller's earth
 - (D) Bentonite
20. A high ratio of auxin to cytokinin in the culture medium induces
- (A) Shoots
 - (B) Precipitation
 - (C) Roots
 - (D) Clumping
21. The analytical constant of a bark is
- (A) Total ash value
 - (B) Fibre length
 - (C) Stomatal index
 - (D) Iodine value
22. The plant constituents having an astringent taste are
- (A) Volatile oil
 - (B) Carbohydrates
 - (C) Tannins
 - (D) Alkaloids
23. The drug possessing an acrid taste is
- (A) Gentian
 - (B) Ginger
 - (C) Linseed
 - (D) Podophyllum

24. A novel diterpenoid isolated from the bark of *Taxus brevifolia*
- (A) Demecolcine
 - (B) Vinblastin
 - (C) Brevifolicin
 - (D) Paclitaxal
25. Citrus flavonoids are rich in
- (A) Fraxin
 - (B) Scopoletin
 - (C) Hesperidin
 - (D) Aesculetin
26. WHO guidelines for the herbal drugs contaminants include
- (A) Amino acids
 - (B) Pentoses
 - (C) Pesticidal residues, arsenic heavy metals, microbial load
 - (D) Purines and pyrimidine bases
27. An essential ingredient in the general preparation of plant tissue culture media is
- (A) Auxin
 - (B) Glucose or sucrose
 - (C) Pyridoxine HCl
 - (D) Gibberlin G1/G2
28. In Pharmacognosy, the crude drugs may be classified according to the following except
- (A) Alphabetically
 - (B) Morphologically
 - (C) Taxonomically
 - (D) Geographical distribution
29. Saponin containing drugs are used as
- (A) Laxative.
 - (B) Bitter tonic.
 - (C) Expectorant.
 - (D) Emetic.

30. Which of the following properties of a particle significantly affects the physical, chemical & biological properties of the drug ?
- (A) Density
 - (B) Sedimentation
 - (C) Size
 - (D) Surface area
31. When coulter-counter apparatus is employed for powder analysis , the following criterion is important :
- (A) Dispersion medium should be coloured
 - (B) Dispersion medium should be conducting
 - (C) Suspended particles should be charged
 - (D) Suspended particle should be spherical
32. The type of particle diameter that is obtained by microscope method of evaluation is :
- (A) Projected
 - (B) Stokes
 - (C) Volume
 - (D) Volume-surface
33. Parenteral drug products undergo what type of testing to ensure that all microorganisms have been destroyed or removed ?
- (A) Clarity testing
 - (B) Pyrogen testing
 - (C) Leaker testing
 - (D) Sterility testing
34. Pharmacopieal tests for ensuring the quality of drug products in tablet form include all of the following EXCEPT
- (A) Disintegration
 - (B) Dissolution
 - (C) Hardness & friability
 - (D) Content uniformity

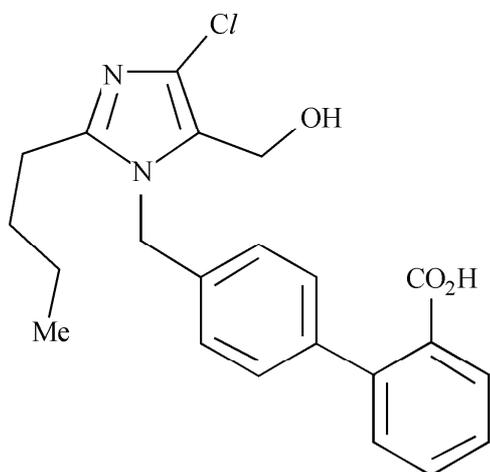
35. When non polar substances dissolved in polar solvent using surfactants, the process is called
- (A) HLB
 - (B) Solubilization
 - (C) Emulsification
 - (D) Gelatination
36. Tablets can be coated with various polymeric agents, which dosage form is formulated to dissolve in the intestine rather than the stomach ?
- (A) Sublingual
 - (B) Transdermal
 - (C) Enteric-coated
 - (D) Buccal
37. A substance that is often used to subcoat tablet is
- (A) Sugar
 - (B) Carnauba wax
 - (C) Shellac
 - (D) Sodium stearate
38. Rat-holing phenomena relates with
- (A) Poor flow of granules
 - (B) Filling of capsules
 - (C) Maintaining the flow of granules
 - (D) Increase the flow of granules
39. Z-value, a term used in sterilization, indicates
- (A) Temperature co-efficient of microbial destruction
 - (B) Rate of microbial destruction
 - (C) The number of microbes surviving in the loads
 - (D) Time to increase to achieve 100% sterility
40. Which compound is a natural emulsifying agent ?
- (A) Acacia
 - (B) Lactose
 - (C) Polysorbate-20
 - (D) Sorbitan monopalmitate

41. Rectal suppositories intended for adult use usually weigh approximately
- (A) 1g
 - (B) 2g
 - (C) 3g
 - (D) 4g
42. A satisfactory suppository base must meet all of the following EXCEPT
- (A) It should have narrow melting range
 - (B) It should be nonirritating and nonsensitizing
 - (C) It should be inert
 - (D) It should melt below 30 °C
43. Dose dumping is a problem in the formulation of
- (A) Compressed tablets
 - (B) Modified-release drug products
 - (C) Soft gelatin capsules
 - (D) Suppositories
44. What equation describes the rate of drug dissolution from tablets ?
- (A) Fick's law
 - (B) Noyes Whitney equation
 - (C) Law of mass action
 - (D) Michaelis-Menten equation
45. The loading dose (D_L) of a drug is usually based on the
- (A) Total body clearance(Cl_T) of the drug
 - (B) Percentage of drug bound to plasma proteins
 - (C) Apparent volume of distribution(V_D) & desired drug concentration of plasma
 - (D) Area under the plasma drug concentration versus time curve(AUC)
46. The principle of superposition in designing multiple-dose regimens assumes that
- (A) Each dose affects the next subsequent dose, causing nonlinear elimination
 - (B) Early doses of drug do not affect subsequent doses
 - (C) The fraction of drug absorbed is equal to the fraction of drug eliminated
 - (D) Each dose of drug eliminated by zero-order elimination

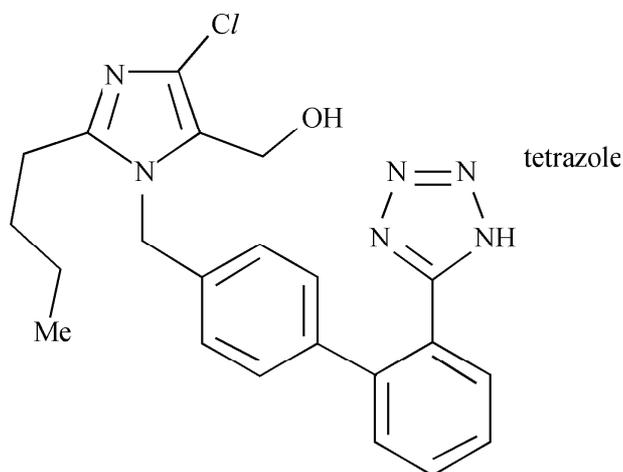
47. A type of flow in which viscosity increases when the substance is agitated in
- (A) Plastic
 - (B) Pseudoplastic
 - (C) Dilatant
 - (D) Thixotropic
48. As per GMP permitted limit of solid content in water for injection is
- (A) 100 ppm
 - (B) 1 ppm
 - (C) 10 ppm
 - (D) 0.1 ppm
49. Which of the following radionuclides is most commonly used in nuclear pharmacy practice ?
- (A) ^{67}Ga
 - (B) $^{99\text{m}}\text{Tc}$
 - (C) ^{133}Xe
 - (D) ^{123}I
50. Example of a bioprecursor prodrug is
- (A) Cyclophosphamide
 - (B) Pivampicillin
 - (C) Progabide
 - (D) Becampicillin
51. Sedative action of C_5 disubstituted barbiturates is due to
- (A) High lipophilicity of groups at C_5 position
 - (B) Electronic withdrawing effect
 - (C) Steric effect
 - (D) Metal chelation
52. Immunosuppressants are also useful in the treatment of autoimmune diseases like
- (A) Meningitis
 - (B) Osteoporosis
 - (C) Myasthenia gravis
 - (D) Dermatitis

53. The three acidity constants of tetracyclines are
- (A) $pK_a = 2.8$ to 3.4 , $pK_a = 7.2$ to 7.8 , $pK_a = 9.1$ to 9.7
 - (B) $pK_a = 5.8$ to 6.4 , $pK_a = 8.2$ to 8.8 , $pK_a = 10.1$ to 10.7
 - (C) $pK_a = 0.8$ to 1.4 , $pK_a = 3.2$ to 3.8 , $pK_a = 5.1$ to 5.7
 - (D) $pK_a = 4.8$ to 5.4 , $pK_a = 6.2$ to 8.8 , $pK_a = 11.1$ to 11.7
54. In the SAR of directly acting sympathomimetics optimal activity is seen only if the amino group is separated from the aromatic ring by
- (A) 1-carbon
 - (B) 2-carbon
 - (C) 3-carbon
 - (D) 4-carbon
55. When N – methyl group of morphine is replaced with an allyl group, the compound formed is
- (A) Naloxone – morphine antagonist
 - (B) Naltrexone – morphine antagonist
 - (C) Nalorphine – morphine antagonist
 - (D) Nalbuphine – morphine agonist / antagonist
56. The “Hemiacetal” form of aldosterone is between
- (A) C – 11, β – hydroxyl and C – 20 carbonyl
 - (B) C – 11, β – hydroxyl and C – 21 hydroxyl
 - (C) C – 11, β – hydroxyl and C – 18 carbonyl
 - (D) C – 21, hydroxyl and C – 20 carbonyl
57. Benzathine penicillin is
- (A) an equimolecular composition of Amoxicillin + N, N dibenzyl ethylene diamine
 - (B) a molecular complexation of Benzyl penicillin + N, N dibenzyl ethylene diamine
 - (C) a molecular complexation of Cloxacillin + ethylene diamine
 - (D) an equimolecular proportion of Amoxicillin + ethylene diamine
58. Absolute stereochemistry of penicillin is designated as
- (A) 3S:5R:6R
 - (B) 3R:5S:6S
 - (C) 3R:5R:6R
 - (D) 3S:5S:6R

59. Biological activity of chloramphenicol is exclusively present in
- Threo isomer
 - L-threo isomer
 - L-erythro isomer
 - D-erythro isomer
60. Which of the following strategies will increase the polarity and water solubility of a drug ?
- Removing polar functional groups
 - Adding extra alkyl groups
 - Replacing an aromatic ring with a nitrogen containing heterocyclic ring
 - Replacing an alkyl group with a larger alkyl group
61. Losartan was developed from structure (I) as an antihypertensive agent by replacing a carboxylic acid group with a tetrazole ring. Which of the following statements is incorrect ?



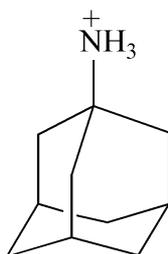
(I)



Losartan

- The tetrazole ring represents a bio-isostere.
 - The tetrazole ring mimics a carboxylic acid in being planar.
 - The tetrazole ring mimics a carboxylic acid in being acidic
 - The tetrazole ring is more polar than a carboxylic acid.
62. Which of the following major aims in drug design is not related to the pharmacodynamics of a drug ?
- The reduction of side effects
 - The maximisation of activity
 - The reduction of toxicity
 - The maximisation of oral bioavailability

63. GABA interaction with receptor results in
- (A) Influx of Cl^-
 - (B) Influx of Ca^{++}
 - (C) Influx of Na^+
 - (D) Influx of K^+
64. Which of the following is the general mechanism of action for erythromycin ?
- (A) Inhibition of a metabolic enzyme
 - (B) Inhibition of cell wall synthesis
 - (C) Disruption of protein synthesis
 - (D) Inhibition of nucleic acid transcription and replication
65. Which of the following is the general mechanism of action for fluoroquinolones ?
- (A) Inhibition of a metabolic enzyme
 - (B) Inhibition of cell wall synthesis
 - (C) Disruption of protein synthesis
 - (D) Inhibition of nucleic acid transcription and replication
66. Which of the following antidepressant drug is also a prodrug for an anti TB agent ?
- (A) Phenelzine
 - (B) Tranylcypromine
 - (C) Iproniazid
 - (D) Imipramine
67. Name the antiviral drugs used clinically against the influenza virus whose structure is given below ?



- (A) Adamantane
- (B) Amantadine
- (C) Rimantadine
- (D) Memantine

68. What are the two main targets currently used in anti-HIV therapy ?
- (A) Reverse transcriptase and protease
 - (B) Reverse transcriptase and integrase
 - (C) Protease and integrase
 - (D) The viral glycoproteins gp120 and gp41
69. Which isomer of diethylstilbestrol is more active ?
- (A) Cis
 - (B) Trans
 - (C) Erythro
 - (D) Threo
70. Which of the following drugs is most likely to impart an orange colour to urine, sweat and tears ?
- (A) carbamazepine
 - (B) isoniazid
 - (C) phenytoin
 - (D) rifampin
71. Which of the following drug(s) is indicated for controlling hyperuricemia ?
- (A) allopurinol
 - (B) colchicine
 - (C) lactulose
 - (D) prednisolone
72. Which of the following drugs will significantly increase the clearance of theophylline from the body ?
- (A) cimetidine
 - (B) allopurinol
 - (C) phenytoin
 - (D) propranolol
73. Pulmonary fibrosis is caused by all the following except
- (A) Busulphan
 - (B) Bleomycin
 - (C) Methotrexate
 - (D) Nitrofurantoin

74. Drug of choice in myoclonic seizure is
- (A) Phenobarbitone
 - (B) Valporate
 - (C) Clonazepam
 - (D) Phenytoin
75. The azole antifungal used topically is
- (A) Itraconazole
 - (B) Ketoconazole
 - (C) Miconazole
 - (D) Fluconazole
76. All the following are given orally except
- (A) Sodium chromoglycate
 - (B) Amoxicillin
 - (C) Fluconazole
 - (D) Ribavirin
77. The insulin receptor is
- (A) Tyrosine protein kinase receptor
 - (B) G protein coupled receptor
 - (C) Ion channel regulating receptor
 - (D) None of the above
78. Neostigmine reverse all the actions of tubocurarine except
- (A) Motor weakness
 - (B) Respiratory palsy
 - (C) Ganglion blockade
 - (D) Histamine release
79. The first drug of choice in acute left ventricular failure is
- (A) Oxygen
 - (B) Frusemide
 - (C) Norphine
 - (D) Sorbitrate

80. Omeprazole inhibits
- (A) Histamine H₂
 - (B) Muscarinic receptors
 - (C) H⁺K⁺ ATPase
 - (D) Na⁺ K⁺ ATPase
81. Glucagon is used in overdose due to
- (A) MAO inhibitors
 - (B) Betablockers
 - (C) Calcium channel blockers
 - (D) Hydralazine
82. Prolactin secretion is increased with
- (A) Methyldopa
 - (B) Metoclopramide
 - (C) Chlorpromazine
 - (D) All of the above
83. Leucovorin rescue is employed with high dose
- (A) Adriamycin
 - (B) Bleomycin
 - (C) Methotrexate
 - (D) None of the above
84. The cephalixin highly active against B fragilis is
- (A) Cefotaxime
 - (B) Cefoxitin
 - (C) Cefuroxime
 - (D) Cefadroxil
85. Opioid overdose is diagnosed from
- (A) Miosis
 - (B) Bradypnoea
 - (C) Normal supine BP
 - (D) All of the above

86. Which of the following phenothiazine neuroleptic is a piperidine derivative ?
- (A) Thioridazine
 - (B) Trifluperazine
 - (C) Perphenazine
 - (D) Promazine
87. Neuroleptics mediated parkinsonism is alleviated by
- (A) Antimuscarinics
 - (B) Amantadine
 - (C) Levodopa
 - (D) Selgiline
88. Which of the following drugs is both α and β blocker ?
- (A) Phentolamine
 - (B) Phenoxybenzamine
 - (C) Labetalol
 - (D) Indoramin
89. Digitalis toxicity is aggravated by
- (A) Hypokalemia
 - (B) Hyponatremia
 - (C) Hypocalcemia
 - (D) Hypomagnesimia
90. Preferred antihypertensive drug during pregnancy is
- (A) Propranolol
 - (B) Hydralazine
 - (C) Hydrochlorthiazide
 - (D) Sodium nitropruside
91. All of the following are first line antitubercular drugs except
- (A) Isoniazid (INH)
 - (B) Rifampicin
 - (C) Kanamycin
 - (D) Ethambutol

92. Combination of drug which is effective in the treatment of angina-pectoris is
- (A) Atenolol, Isoproterenol, diltiazem
 - (B) Isosorbide, nifedipine, propranolol
 - (C) Nitroglycerin, Isosorbide, atenolol
 - (D) None of the above
93. Isoxuprine is used to treat
- (A) Asthma
 - (B) Severe Hypotension
 - (C) Nasal congestion
 - (D) Premature labor
94. A young woman complains of severe abdominal pain at the time of menstruation. Careful evaluation indicates the presence of significant endometrial deposits on the pelvic peritonium.
The most rational therapy for this patient would be
- (A) Flutamide
 - (B) Danazol
 - (C) Mestranol
 - (D) Estradiol
95. The primary standard used to standardize acetous perchloric acid is
- (A) Benzoic acid
 - (B) Potassium hydrogen phthalate
 - (C) Oxalic acid
 - (D) Sodium carbonate
96. Which of the following is used to damask zinc from the zinc-cyanide complex ?
- (A) Tiron
 - (B) Potassium iodide
 - (C) Chloral hydrate
 - (D) Triethanolamine
97. The IR detector which consists of a small metal cylinder closed by a blackened metal plate on one end and a flexible metalized diaphragm on the other is
- (A) Bolometer
 - (B) Thermistor
 - (C) Golay cell
 - (D) Pyroelectric detectors

98. The Henderson's equation states that
- (A) $\text{pH} = \text{pK}_a + \log \left[\frac{[\text{salt}]}{[\text{acid}]} \right]$
 - (B) $\text{pH} = \text{pK}_a - \log \left[\frac{[\text{salt}]}{[\text{acid}]} \right]$
 - (C) $\text{pH} = \text{pK}_a - \log \left[\frac{[\text{acid}]}{[\text{salt}]} \right]$
 - (D) $\text{pH} = \text{pK}_a + \log \left[\frac{[\text{acid}]}{[\text{salt}]} \right]$
99. The standard redox potential of $\text{MnO}_4^- / \text{Mn}^{+2}$ systems is
- (A) + 1.52 V
 - (B) - 0.51 V
 - (C) + 0.77 V
 - (D) - 0.06 V
100. Which of the following is not true for Eddy diffusion in chromatography ?
- (A) It is related to particle size, geometry and tightness of packing of the stationary phase.
 - (B) It results in the broadening of the eluted band.
 - (C) It is independent of flow rate.
 - (D) It results from the tendency of the molecules to migrate from the concentrated centre part of the band towards more dilute regions on either side.
101. Which of the following transitions require the lowest energy for excitation in the UV region ?
- (A) $\pi \rightarrow \pi^*$
 - (B) $\sigma \rightarrow \sigma^*$
 - (C) $n \rightarrow \pi^*$
 - (D) $n \rightarrow \sigma^*$
102. For the measurement of higher conductivity the cell consists of
- (A) Small electrodes separated by long distance
 - (B) Small electrodes separated by short distance
 - (C) Large electrode separated by long distance
 - (D) Large electrode separated by short distance
103. The precipitating agent used to precipitate calcium as calcium oxalate in gravimetry is
- (A) Oxalic acid
 - (B) Sodium oxalate
 - (C) Ammonium oxalate
 - (D) Cupferron

- 104.** Assay of Sulphamethoxazole is done by
- (A) Acid base titration
 - (B) Non-aqueous titration
 - (C) Redox titration
 - (D) Diazotisation titration
- 105.** The reagent gas used for chemical ionization in mass spectrometry is
- (A) Methane
 - (B) Ethane
 - (C) Propane
 - (D) Hexane
- 106.** The indicator electrode used in polarography is
- (A) Glass electrode
 - (B) Rotating platinum electrode
 - (C) Dropping mercury electrode
 - (D) Antimony-Antimony oxide electrode
- 107.** The reduction of fluorescence intensity due to the complex formation of riboflavin by Caffeine is an example of
- (A) Physical quenching
 - (B) Static quenching
 - (C) Colloidal quenching
 - (D) Chemical quenching
- 108.** In a double focusing mass spectrometer
- (A) Two beams are used separately
 - (B) Two samples can be analyzed
 - (C) Sample and reference beams are present
 - (D) Electrostatic and magnetic analyzers are present
- 109.** The sample cells used in IR spectroscopy are made up of
- (A) Glass
 - (B) Quartz
 - (C) Alkyl halides
 - (D) Any material

- 110.** Fischer's 'lock & key' model of the enzyme action implies that
- (A) The active site is complementary in shape to that of the substance only after interaction.
 - (B) The active site is complementary in shape to that of the substance.
 - (C) Substrates change confirmation prior to active site interaction.
 - (D) The active site is flexible & adjusts to substrate.
- 111.** In the citric acid cycle, citric acid is formed by a combination of acetate & a molecule of
- (A) Oxaloacetate
 - (B) Glucose
 - (C) Pyruvic acid
 - (D) Lactic acid
- 112.** The enzymes required for the β -oxidation are present in
- (A) Mitochondria
 - (B) Nucleus
 - (C) Endoplasmic reticulum
 - (D) Cytoplasm
- 113.** The process which contributes to purine nucleotide biosynthesis is
- (A) ribosylation of purine synthesis from basic intermediates
 - (B) synthesis from basic intermediates
 - (C) synthesis from amphibolic intermediates
 - (D) synthesis from acidic intermediates
- 114.** In the Eukaryotic cells, transcription complex contains
- (A) Template strand of DNA
 - (B) RNA-polymerase
 - (C) Sigma factors
 - (D) All of the above
- 115.** Transcription bubble contains
- (A) RNA polymerase
 - (B) DNA
 - (C) Nascent-RNA
 - (D) All of the above

- 116.** The Central Pharmacy Council comprises the following members :
- (A) Six members from the teachers of pharmacy, the director-general of health services & the ex-officio, Drugs Controller, India.
 - (B) Two members from the teachers of pharmacy, one member elected by the Medical Council of India & the Director of Central Drug Laboratory.
 - (C) Two members from practicing pharmacists, six members elected by the Medical Council of India & five representatives from the AICTE.
 - (D) Six members to represent each State Council who shall be a registered pharmacist, the Deputy Director CDL & one member elected by the Medical Council of India.
- 117.** A drug shall be deemed to be adulterated if
- (A) it is manufactured and stored under hygienic conditions
 - (B) it does not contain harmful or toxic substances
 - (C) it has not been mixed with any substance to reduce its quality
 - (D) it bears a colour other than one which is prescribed
- 118.** Schedule T of Drugs & Cosmetics rules, 1945 deals with
- (A) GMP for Ayurveda, Siddha & Unani medicines
 - (B) Standards for Cosmetics
 - (C) Requirements of factory premises for manufacture of medical devices
 - (D) Biological & Special products
- 119.** Form 28 is
- (A) Application for grant/renewal of license to manufacture blood products for sale or distribution
 - (B) Application for grant/renewal of a loan license to manufacture for sale or for distribution of drugs specified in schedules C1 & C2
 - (C) Certificate of renewal of license for manufacture of blood products
 - (D) For obtaining license to manufacture for sale or for distribution of drugs specified in Schedules C & C1
- 120.** Insulin injection comes under Schedule
- (A) S
 - (B) P
 - (C) G
 - (D) A

Space For Rough Work