The candidate should ensure that Question Paper Booklet No. of the Question Paper Booklet and Answer Sheet must be same after opening the Paper Seal / Polythene bag. In case they are different, a candidate must obtain another Question Paper. Candidate himself shall be responsible for ensuring this.
1. Anti-cholinesterases are ineffective in
   (1) Belladonna poisoning
   (2) Carbamate poisoning
   (3) Post-operative paralytic ileus
   (4) Cobra bite

2. Following statements about Beta (β) blocker are true, except
   (1) Esmolol is rapidly metabolised in liver.
   (2) Celiprolol has direct vasodilatory property.
   (3) Nevibolol releases nitric oxide.
   (4) Metoprolol used CHF to prolong survival.

3. True statement regarding segmental block during spinal anaesthesia
   (1) Sympathetic block is higher than the sensory block.
   (2) Motor block is higher than the sensory block.
   (3) Motor block is higher than sympathetic block.
   (4) Sympathetic, motor and sensory block has the same level.

4. Following are the centrally acting skeletal muscle relaxants, except
   (1) Chlozoaxzone
   (2) Chlormezanone
   (3) Chlorpropamide
   (4) Thiocolchicoside

5. Shortest acting non-depolarizing muscle relaxant is
   (1) Succinyl choline
   (2) Mivacurium
   (3) Cis-Atracurium
   (4) Atracurium

6. Which of the following statement is correct regarding the drug interaction with Non-depolarizing Neuromuscular Blockers (NMBs) ?
   (1) Desflurane reduce effect of NMBs.
   (2) Cholinesterase inhibitors increase effect of NMBs.
   (3) Aminoglycosides increase the effect of NMBs.
   (4) CCB reduces the effect of NMBs.

7. True statement about Lignocaine except
   (1) Used for treatment of Ventricular arrhythmia
   (2) Can precipitate malignant hyperthermia
   (3) Lignocaine is more cardiotoxic than Bupivacaine
   (4) Bupivacaine is more vasodilatory than Lignocaine
8. Which of the following statement about NSAIDS is false?

   (1) They can blunt the antihypertensive effect of ACEI.

   (2) NSAIDS are useful in diabetic neuropathy pain.

   (3) NSAIDS may cause nephrotoxicity.

   (4) Many NSAIDS can be used topically.

9. Which of the following statement is not true about Aspirin?

   (1) Its clearance is dependent on plasma concentration.

   (2) It is an irreversible inhibitor of COX enzyme.

   (3) It is associated with ion trapping in stomach.

   (4) It have a very low adverse effect on gastric mucosa.

10. A drug that is effective for rheumatoid arthritis but is not appropriate for Osteoarthritis is

    (1) Naproxen

    (2) Keterolac

    (3) Parecoxib

    (4) Leflunomide

11. Following statements about Fexofenadine are true, except

   (1) It undergoes very low first pass metabolism.

   (2) Terfenadine is active metabolites of this drugs.

   (3) It does not block cardiac K+ channels.

   (4) It has low affinity for central H1 receptor.

12. Mechanism of action of colchicine in acute Gout is

    (1) Suppression of pain transmission at spinal level.

    (2) Metaphase arrest in neutrophil proliferation.

    (3) Prevention of Granulocyte migration

    (4) Inhibition of uric acid crystal formation in joint

13. All of the following actions of histamine are mediated through H1 receptor, except

    (1) Release of NO from vascular endothelium lead to vasodilation

    (2) Direct action on vascular smooth muscle resulting in vasodilation in smaller artery

    (3) Bronchoconstriction

    (4) Release of Adrenaline from adrenal medulla
14. All of the following can be used for prophylaxis of migraine
   (1) Zolmitriptan
   (2) Topiramate
   (3) Amitriptyline
   (4) Propranolol

15. Following statements are true about H₁ antihistaminics, EXCEPT
   (1) Ebastine is an active metabolite of Azelestone
   (2) Azelestone can be used topically.
   (3) Promethazine is used for acute muscle dystonia cause by antipsychotic drugs
   (4) Cyproheptadine have additional SHT₂ blocking activity

16. Which of the following is useful in acute attack of Gout ?
   (1) Probenecid
   (2) Sulfinpyrazone
   (3) Allopurinol
   (4) Piroxicam

17. Allopurinol potentiates the action of
   (1) Corticosteroid
   (2) Probenecid
   (3) 6-mercaptopurine
   (4) Ampicillin

18. Which of the following drugs act as a benzodiazepine antagonist ?
   (1) Flumazenil
   (2) Fomepizol
   (3) Furazolidone
   (4) Fluoxtine

19. Selective COMT (Catechol-O-Methyl Transferase) inhibitor used in Parkinson disease is
   (1) Entacapone
   (2) Ropinirole
   (3) Pergolide
   (4) Pramipixole

20. Drug of choice in drug induced Parkinsonism is
   (1) Levodopa
   (2) Benzhexol
   (3) Amantadine
   (4) Carbidopa

21. Following statements about Dexmedetomidine are correct, EXCEPT
   (1) It is an α₂ (Alpha 2) agonist
   (2) Used for sedating property in ICU.
   (3) It can cause hypertension and Tachycardia
   (4) It is used for analgesic property in ICU.
22. Anticonvulsant causing visual field contraction is
   (1) Vigabatrin
   (2) Levetiracetam
   (3) Ethosuximide
   (4) Phenytoin

23. Which one of the following is an established clinical use of morphine?
   (1) Generalized Anxiety disorder
   (2) Relief of pain associated with biliary colic
   (3) Pulmonary congestion in acute left ventricular failure
   (4) Alcohol withdrawal syndrome

24. Following statements about Tricyclic Antidepressants (TCA) are true, except:
   (1) TCA should not be used in patient of Glaucoma
   (2) Used for prophylaxis of Migraine
   (3) Are useful in diabetic neuropathic pain
   (4) Useful in erectile dysfunction

25. All are true about Ramelteon, except
   (1) Act on MT$_1$ and MT$_2$ receptor as agonist
   (2) It only induce sleep and does not prolong sleep
   (3) It has very high first pass metabolism
   (4) No rebound insomnia

26. Which one of the following statement about Lithium is true?
   (1) It can cause mild hyperthyroidism.
   (2) Thirst and polyuria are common side effect.
   (3) High Na$^+$ diet intake will increase the lithium level.
   (4) It will calm the patient of acute mania within 24 hours.

27. Following pairs of drugs – mechanism of action are correct, except
   (1) Gabapentin - Enhances GABA release
   (2) Tiagabine - Blocking GABA transporter GAT-1 mediated removal of GABA.
   (3) Vigabatrin - Inhibitor of GABA-transaminase.
   (4) Pregabalin - Act as GABA agonist and enhance Cl$^-$ ion transport.

28. Drug which do not act via GABA$_{A}$-Cl channel complex
   (1) Zopiclone
   (2) Methohexitone
   (3) Clobazem
   (4) Citalopram
29. Shortest acting benzodiazepine is
   (1) Alprazolam
   (2) Midazolam
   (3) Lorazepam
   (4) Diazepam

30. Anti-Parkinsonian drug, which act by blocking Dopaminergic D₂ receptor directly
   (1) Ropinirole
   (2) Benserazide
   (3) Tolcapone
   (4) Rasagiline

31. Which of the following statements is correct about Donepezil?
   (1) It is a topical carbonic anhydrase inhibitor.
   (2) It is a cate-chol-o-methyl transferase inhibitor.
   (3) It is a cerebroselective anticholin esterase.
   (4) It is a GABA transaminase inhibitor.

32. All of the following are the adverse effects of carbamazepine, except:
   (1) Teratogenicity
   (2) Neurotoxicity
   (3) Decrease in ADH (Anti-diuretic Hormone)
   (4) Hypersensitivity

33. Which of the following is the feature of phenytoin toxicity (over dose)?
   (1) Gum hypertrophy
   (2) Loss of hair
   (3) Acne Rosacea
   (4) Nystagmus

34. Which of the following drug is useful for the treatment of infantile spasm?
   (1) ACTH
   (2) Phenobarbitone
   (3) Carbamazepine
   (4) TSH

35. All are true about clozapine, except
   (1) It can cause agranulocytosis
   (2) It block D₂ and 5-HT₂ both
   (3) It has α adrenergic blocking property
   (4) It has no anticholinergic property

36. Congenital anomaly in fetus which can be caused by Lithium is
   (1) Tetralogy of Fallot
   (2) Ebstein's anomaly
   (3) Bicuspid atresia
   (4) Pulmonary stenosis

37. Following statements are incorrect about Buspirone, except
   (1) It interact with GABAₐ receptor
   (2) It is an anxiolytic
   (3) It produces physical dependence
   (4) It will have rebound insomnia
38. Selective serotonin reuptake inhibitors (SSRIs) are useful in all except
   (1) Social phobia
   (2) Acute panic attack
   (3) Post traumatic
   (4) Generalized anxiety disorder

39. Which of the following drugs is not an antipsychotic agent?
   (1) Trazodone
   (2) Risperidone
   (3) Quetiapine
   (4) Ziprasidone

40. All the drugs can be used in treatment of Heroin dependence except
   (1) Buprenorphine
   (2) Fomepizole
   (3) Clonidine
   (4) Lofexidine

41. Weight gain caused by antipsychotic is due to antagonism of which serotonin receptor?
   (1) SHT4
   (2) SHT2A
   (3) SHT2B
   (4) SHT2C

42. Which of the following drug does not effect GABA_A gated chloride channel?
   (1) Alcohol
   (2) Muscimol
   (3) Picrotoxin
   (4) Buspirone

43. Drug which can be used to treat mania in ICU (emergency) are all except
   (1) Carbamazepine
   (2) Lithium
   (3) Diazepam
   (4) Lorazepam

44. The plane of surgical anaesthesia during ether anaesthesia is defined as
   (1) Loss of consciousness
   (2) Loss of consciousness to the onset of spontaneous respiration
   (3) From onset of regular respiration to cessation of spontaneous breathing
   (4) Absence of reflexes

45. Following are the advantages of Glycopyrrolate over Atropine during pre-anesthetic medication
   (1) Less CNS action
   (2) Less Tachycardia
   (3) Longer acting
   (4) Less neuromuscular blockade
46. Which of the following is indicated for treatment of amyotrophic lateral sclerosis?
(1) Pramipexole
(2) Riluzole
(3) Galantamine
(4) Glitiramer

47. All of the following drugs controlled substances with a risk for drug dependence except:
(1) Armodafinil
(2) Methamphetamine
(3) Atomoxetine
(4) Dexmethylphenidate

48. Lamotrigine has very common side effect of
(1) Rash
(2) Irritability
(3) Nephrotoxicity
(4) Behavioral disturbances

49. Which of the following inhalational anaesthetic agent causes maximum respiratory irritation?
(1) Enflurane
(2) Halothane
(3) Sevoflurane
(4) Desflurane

50. Drug used for smoking cessation is
(1) Acamprosate
(2) Naloxone
(3) Carbamazepine
(4) Varenicilline

51. Which statement is TRUE about carbamazepine?
(1) Carbamazepine is an enzyme inhibitor
(2) Used in trigeminal neuralgia
(3) Can cause megaloblastic anaemia
(4) It is a drug of choice for status epilepticus

52. All the following drugs require dose reduction in “Cirrhosis of Liver” except
(1) Lorazepam
(2) Diazepam
(3) Phenytoin
(4) Rifampin

53. Lysergic acid diethylamide (LSD) act as agonist on which receptor?
(1) CB₁ and CB₂ receptors
(2) SHT receptor
(3) NDMA receptor
(4) Dopamine receptor
54. Tianepine act as antidepressant by which mechanism of action?
   (1) Inhibit 5-HT reuptake
   (2) Inhibit 5-HT and NA reuptake
   (3) Increase reuptake of 5-HT
   (4) Inhibit DA and 5-HT reuptake

55. Following statements are true regarding Antidepressant drugs except
   (1) Citalopram is a SSRIs
   (2) Mianserin is a Atypical antidepressants
   (3) Bupropion inhibit reuptake of DA only
   (4) Clomipramine is useful in premature ejaculation

56. Valbenazine is approved for the use for “Adverse drugs effect” of Anti-psychotic drugs is
   (1) Malignant neuroleptic syndrome
   (2) Acute muscular dystonias
   (3) Akathisia
   (4) Tardive dyskinesia

57. All are true regarding METHANOL poisoning except
   (1) Hemodialysis should be done when serum methanol concentration is above 50 mg/dl.
   (2) Fomepizole act by inhibiting aldehyde dehydrogenase.
   (3) Metabolic acidosis will be there in severe cases.
   (4) Visual disturbances are commonly seen.

58. Which of the following is not used for alcohol withdrawal?
   (1) Disulfiram
   (2) Flumazenil
   (3) Acamprosate
   (4) Naltrexone

59. Angel dust is
   (1) Phenyl butazone
   (2) Dimethoxy methyle amphetamine
   (3) Phencyclidine
   (4) Methylphenidate

60. Which of the following action of morphine develop little or no tolerance?
   (1) Analgesic
   (2) Miosis
   (3) Euphoria
   (4) Nausea and Vomiting

61. Physiological antagonism is found in all except
   (1) Prostacycline - Thromboxane
   (2) Heparin - Protamine
   (3) Adrenaline - Histamine
   (4) Salbutamol - Leukotrienes

62. Ligand gates ions channels is
   (1) VIP receptor
   (2) Somatostatus receptor
   (3) GABA_B receptor
   (4) GABA_A receptor
63. Which of the following is not an adverse effect of salbutamol?
   (1) Tachycardia
   (2) Tolerance
   (3) Hypokalemia
   (4) Hypoglycemia

64. All of the following drugs increases the level of theophylline except
   (1) Ciprofloxacin
   (2) Barbiturates
   (3) Cimetidine
   (4) Allopurinol

65. All of the following statements about spironolactone are true except
   (1) It is used in combination with Furosemide to decrease the chances of hyperkalemia
   (2) It helps to overcome the refractoriness of thiazides
   (3) It is more useful in cirrhotic and nephrotic edema
   (4) It should not be given with K+ supplement.

66. Following are the adverse effects of Furosemide except
   (1) Hyperuricemia
   (2) Hypocalcemia
   (3) Hypoglycaemia
   (4) Hypomagnesemia

67. Which of the following statement is not true about diuretics?
   (1) Thiazides act on cortical diluting segment of nephron.
   (2) Acetazolamide is carbonic anhydrase inhibitors.
   (3) Furosemide act on descending limb of loop of Henle.
   (4) Spironolactone is an aldosterone antagonist.

68. All the following drugs reduce after load EXCEPT
   (1) Lisinopril
   (2) Propranolol
   (3) Hydralazine
   (4) GTN Glyceryle trinitrate

69. Digoxin toxicity can be increased by all except
   (1) Hypokalemia
   (2) Hypomagnesemia
   (3) Hypercalcemia
   (4) Hyperuricemia

70. Which of the following drug may cause decrease libido and impotence?
   (1) Captopril
   (2) Prazocin
   (3) Metoprolol
   (4) Diltiazem
71. Best management for an elderly hypertensive patient who is also suffering from diabetus mellitus and bilateral renal artery stenosis
   (1) Enalapril
   (2) Amlodipine
   (3) Propranolol
   (4) Thiazides

72. Nitroglycerine can be administered by all of the following routes except:
   (1) Oral
   (2) Sublingual
   (3) Intramuscular
   (4) Intravenous

73. All are the toxicities seen with Amiodarone therapy except:
   (1) Pulmonary fibrosis
   (2) Corneal microdeposits
   (3) Cirrhosis of liver
   (4) Productive cough

74. All of the following statements are true about Quinidine except:
   (1) It blocks myocardial Na⁺ channels.
   (2) It has no effect on myocardial K⁺ channels.
   (3) It increases P-R and Q-T intervals on ECG.
   (4) It can cause Digoxin toxicity due to displacement of tissue binding.

75. The drug of choice for rapid correction of PSVT in known Asthmatics is
   (1) Adenosine
   (2) Propranolol
   (3) Neostigmine
   (4) Verapamil

76. Lidocaine is an effective anti-arrhythmic because it
   (1) Suppresses excitability in hypoxic areas of the heart
   (2) Prolong the Q-T interval
   (3) Prolong the P-R interval
   (4) Depresses the slope of phase 0 (zero) in slow response tissues

77. All of the following drugs can cause gynaecomastia except
   (1) Digoxin
   (2) Amiloride
   (3) Cimetidine
   (4) Spironolactone

78. Potassium channel opener with anti-anginal activity is
   (1) Nicorandil
   (2) Dipyridamole
   (3) Trimetazidine
   (4) Oxyphedrine

79. Organic Nitrates produces therapeutic effect in Angina by all mechanism except
   (1) Preload Reduction
   (2) Afterload reduction
   (3) Decrease Heart Rate
   (4) Redistribution of coronary artery blood flow
80. Calcium channel blocker which can cause increase in Heart Rate is
   (1) Nifedipine
   (2) Amlodipine
   (3) Verapamil
   (4) Ditiazem

81. All the following ACEI (Angiotensin Converting Enzyme Inhibitors) are prodrug except
   (1) Enalapril
   (2) Lisinopril
   (3) Perindopril
   (4) Ramipril

82. All are used for treatment of pulmonary hypertension except
   (1) Bosentan
   (2) Sildenafil
   (3) Calcium channel blocker
   (4) Beta blocker

83. The treatment of hyperlipidemic patients with nicotinic acid (Niacin) results in
   (1) Increase in VLDL
   (2) Decrease in both plasma cholesterol and TGs.
   (3) Inhibition of HMG-CoA reductase
   (4) Decrease in HDL

84. Which one of the following statement is incorrect regarding Antiplatelet drug?
   (1) Ticlopidine can cause neutropenia.
   (2) Clopigrel irreversibly blocks P<sub>2</sub>Y<sub>12</sub> purinergic receptor.
   (3) Prasugrel is a prodrug.
   (4) Ticagrelor reversibly blocks P<sub>2</sub>Y<sub>12</sub> purinergic receptor.

85. Which of the following statements regarding Warfarin is true?
   (1) It is a prodrug converted to active metabolite in blood spontaneously.
   (2) It has low lipophilicity and does not cross the placental barrier.
   (3) It inhibit the activation of Vitamin-K dependent clotting factor.
   (4) It is inactivated by Protamine.

86. Choose the most correct statement about Iron therapy.
   (1) Haemoglobin response to intramuscular iron is faster than with oral iron therapy.
   (2) Iron must be given orally except in Pernicious Anaemia.
   (3) Prophylactic iron therapy must be given during pregnancy.
   (4) Infants on breastfeeding do not require medicinal iron.
87. Blood level of which clotting factor declines most rapidly after the initiation of Warfarin therapy?
   (1) Factor VII  
   (2) Factor IX  
   (3) Factor X  
   (4) Prothrombin

88. Which of the following is NOT an adverse effect of Heparin?
   (1) Bleeding  
   (2) Thrombocytopenia  
   (3) Hypokalemia  
   (4) Osteoporosis

89. Which of the following statements is NOT correct regarding drugs acting on coagulation and thrombosis?
   (1) Rivaroxaban is a direct factor Xa inhibitor.  
   (2) Dabigatran is an oral direct thrombin inhibitor.  
   (3) Tirofiban is an antiplatelet drug.  
   (4) Dipyridamole is an oral anticoagulant.

90. Ezetimibe act by
   (1) Enhancing excretion of bile acid.  
   (2) Decreasing absorption of cholesterol.  
   (3) Inhibiting HMG-CoA Reductasc.  
   (4) Increase uptake of cholesterol by liver.

91. Mechanism of action of statin is
   (1) Inhibition of HMG-CoA synthatase  
   (2) Stimulation of HMG-CoA reductase  
   (3) Indirect increase of LDL receptors synthesis  
   (4) Inhibition of intestinal cholesterol absorption

92. Most potent statin is
   (1) Simvastatin  
   (2) Pitavastatin  
   (3) Atorvastatin  
   (4) Rosuvastatin

93. The drugs employed for anti H-pylori therapy include all of the following except
   (1) Levofloxacin  
   (2) Clarithomycin  
   (3) Tinidazole  
   (4) Amoxicillin

94. Which anti-emetic agent (SHT₃ antagonist) can cause Q-T prolongation?
   (1) Ondansetran  
   (2) Granisetran  
   (3) Palonosetran  
   (4) Ramosetran
95. Regarding Aprepitant all are true except
   (1) Agonist at NK₁ receptor
   (2) It block the emetic action of substance P
   (3) Metabolized by CYP3A4, 450
   (4) It crosses the blood brain barrier

96. Anti-emetic actions are produced by all mechanism except
   (1) Decrease CTZ stimulation
   (2) H₁ Antagonistic action
   (3) Olfactory apparatus stimulation
   (4) SHT₄ Agonistic action

97. A small amount of Atropine is added to Diphenoxylate during treatment of diarrhoea in order to
   (1) Suppress associated vomiting of gastroenteritis
   (2) Discourage overdose and abuse of Diphenoxylate
   (3) Block side effect of Diphenoxylate
   (4) Augment the anti-motility action of Diphenoxylate.

98. The following drug is useful in treatment of neurogenic Diabetes insipidus except
   (1) Amiloride
   (2) Chlorpropanide
   (3) Carbamazepine
   (4) Hydrochlorothiazide

99. What is the drug of choice for management of Adrenal glucocorticoid induced Osteoporosis ?
   (1) Alendronate
   (2) Calcitonin
   (3) Estrogen
   (4) Vitamin D

100. Octerotide is used in all except
   (1) For secretory diarrhoea in carcinoid syndrome
   (2) Insulinoma
   (3) Peptic ulcer due to smoking
   (4) Glucagonoma

101. Conversion of T₄ to T₃ is inhibited by all except
   (1) Methaimazole
   (2) Propranolol
   (3) Propylthiouracil
   (4) Amiodarone

102. The clinical use of leuprolide includes all of the following except
   (1) Endometriosis
   (2) Prostate cancer
   (3) Post-menopausal syndrome
   (4) Precocious puberty

103. True about pioglitazone are all except
   (1) Metabolized by CYP3A4 in liver
   (2) Selective agonist on PPARγ
   (3) Also useful in Diabetes mellitus type I
   (4) Should be avoided in patient with CHF
104. Most likely complication of Insulin therapy during treatment Diabetes ketoacidosis is
(1) Hypermotension
(2) Hypoglycemia
(3) Pancreatitis
(4) Hypersensitivity

105. Mifepristone is used in all except
(1) Medical termination of pregnancy
(2) Cervical ripening
(3) Post coital contraceptive
(4) Threatened abortion

106. Which of the following is aromatase inhibitor ?
(1) Danazol
(2) Itraconazole
(3) Letrozole
(4) Taxanezole

107. Mechanism of action of Tamoxifen is
(1) It block the activity of GnRH
(2) It inhibits aromatase enzyme lead to decrease formation of estrogen
(3) It has partial agonist and antagonist action on estrogen receptor
(4) It inhibit the release of FSH and LH from pituitary gland

108. Oral contraceptive pill is useful in preventing all of the following except
(1) Ovarian carcinoma
(2) Anaemia by reducing the blood loss in menorrhagia
(3) Endometritis
(4) Carcinoma breast

109. All of the following Insulin analogues are long acting Insulin except
(1) Insulin Glulisine
(2) Insulin Glargine
(3) Insulin Detemir
(4) Insulin Degludec

110. Which Insulin analogue is approved for Intravenous use ?
(1) Insulin Lispro
(2) Insulin Aspart
(3) Insulin Glargine
(4) Insulin Detemir

111. Following statements are true about Sitagliptin except :
(1) It causes post-prandial insulin release
(2) It decreases glucagon release
(3) It slow the gastric emptying
(4) It can cause adverse drug reaction like exfoliative dermatitis and Nasopharyngitis

112. Which of the following does not cause hypoglycaemia with following anti-diabetic agent ?
(1) Nateglinide
(2) Pioglitazone
(3) Tolbutamide
(4) Glibenclamide

113. Which corticosteroid has maximum mineralocorticoid activity among the following drugs?
(1) Dexamethasone
(2) Betamethasone
(3) Prednisolone
(4) Methylprednisolone
114. Bremelanotide is approved to use for
   (1) Hormone-refractory prostate cancer
   (2) Post-menopausal osteoporosis
   (3) Hypoactive Sexual Desire Disorder (HSDD)
   (4) Lower Urinary Tract Symptom (LUTS)

115. True about Tibolone except
   (1) It is a non-steroidal drug
   (2) It has estrogenic activity
   (3) It has progestational activity
   (4) It has weak anti-androgenic activity

116. Bisphosphonates are used in all except
   (1) Paget’s disease
   (2) Vitamin D excess
   (3) Postmenopausal Osteoporosis
   (4) Hypercalcemia of malignancy

117. All of the following agents are Tocolytics except
   (1) Ritodrine
   (2) Nifedipine
   (3) Atosiban
   (4) Apixaban

118. Pretomanid is a/an
   (1) Antiviral drug
   (2) Anticancer drug
   (3) Anti-Tubercular drug
   (4) Drug for Rheumatoid arthritis

119. All of the following drugs are bactericidal except
   (1) Rifampin
   (2) Vancomycin
   (3) Carbencillin
   (4) Tigecycline

120. All of the following statements about Penicillin are true except
   (1) It is active secreted in nephron tubules.
   (2) It is commonly administered orally.
   (3) It has narrow spectrum of activity.
   (4) It act by inhibiting cell wall synthesis.

121. The following is true about Vancomycin except
   (1) It is bactericidal primarily used against gram positive bacteria.
   (2) It act by inhibiting bacterial protein synthesis.
   (3) It can cause dose related ototoxicity.
   (4) Vancomycin is not absorbed orally.

122. All antimicrobial agent obtain from Fungi except
   (1) Chloramphenicol
   (2) Penicillin
   (3) Cephalosporin
   (4) Griseofulvin

123. Which of the following is not true regarding Tetracycline?
   (1) It has anabolic effect.
   (2) It can cause tooth discoloration.
   (3) It do not cause superinfection.
   (4) It is a bacteriostatic agent.
124. The most common mechanism by which gram negative bacilli acquire chloramphenicol resistance is
(1) Decreased permeability into the bacterial cell.
(2) Acquisition of a plasmid encoded for chloramphenicol acetyl transferase.
(3) Lowered affinity for bacterial ribosomes.
(4) Expulsion of chloramphenicol from bacterial cell.

125. Which of the Fluoroquinolone can be used safely in renal failure?
(1) Ofloxacin
(2) Ciprofloxacin
(3) Pefloxacin
(4) Comefloxacin

126. Cephalosporin which can cause bleeding as adverse drug reaction is
(1) Ceftriaxone
(2) Cefotaxime
(3) Cefazolin
(4) Cefazidime

127. Slow acetylators of Isoniazid are more prone to develop
(1) Failure of therapy
(2) Allergic reaction
(3) Hepatotoxicity
(4) Peripheral neuropathy

128. In leprosy, the best bactericidal agent is
(1) Clofazimine
(2) Dapsone
(3) Rifampicin
(4) Ofloxacin

129. Griseofulvin is not useful in one of the following:
(1) Tinea Capitis
(2) Tinea Cruris
(3) Tinea Versicolor
(4) Tinea Pedis

130. Metronidazole is least likely to be effective in the treatment of
(1) Hepatic amoebiasis
(2) Infection caused by Bacteroides fragilis
(3) Pseudo membranous colitis
(4) Pneumococcal Pneumonia

131. Drugs of the choice for the treatment of neurocysticercosis
(1) Hydroquinone and metronidazole
(2) Mentronidazole and pyrental palmoate
(3) Cyclophosphamide and tinidazole
(4) Albendazole and praziquantel

132. All of the following are protease inhibitor for AIDS except
(1) Indinavir
(2) Abacavir
(3) Saquinavir
(4) Lopinavir
133. Which of the following statements is false regarding Adefooir dipivoxil?
(1) Acyclic nucleotide analogue
(2) Well tolerated orally
(3) Used in chronic Hepatitis B infection
(4) Used in anti-retroviral therapy

134. Anti-malarial drug is known to cause neuropsychiatric adverse reaction
(1) Mefloquine
(2) Amodiaquine
(3) Quinine
(4) Tafenoquine

135. Which of the following statements is false regarding Itraconazole?
(1) It has broad antifungal spectrum.
(2) Oral absorption is reduced by H₂ blocker.
(3) It does not have inhibitory effect on CYP3A4 like ketoconazole.
(4) It can be given by IV route.

136. Antiviral drug is in use for COVID-19 which was useful for Ebola virus
(1) Adefooir
(2) Remdesivir
(3) Telbувудине
(4) Enfuviptide

137. Following are the common properties of Aminoglycosides antibiotic except
(1) All are more active in acidic pH
(2) All are excreted unchanged in urine
(3) All exhibit ototoxicity and nephrotoxicity
(4) All are not absorbed orally

138. Which of the following anticancer drug is not obtained from plants?
(1) Irinotecan
(2) Paclitaxel
(3) Doxorubicin
(4) Etoposidebine

139. Hemorrhagic cystitis is caused by
(1) Cyclophosphamide
(2) 6-mercaptopurine
(3) 5-Flurouracil
(4) Busulfan

140. Which of the following is not an alkylating agent?
(1) Cyclophosphamide
(2) Lomustine (Nitrosourea)
(3) Dacarbazine
(4) Estramustine

141. Following statements regarding methotrexate are true except
(1) Toxicity of methotrexate can be reverse by Folic acid.
(2) Can be administered by oral and IV route.
(3) It exerts major toxicity on bone marrow.
(4) It commonly used in psoriasis.

142. Treatment of choice for chronic myeloid Leukaemia is
(1) Hydroxyl-urea
(2) Imatinib
(3) Interferon alpha
(4) Pemetrexed
143. All of the following drugs are used orally in Psoriasis except
(1) Glucocorticoid
(2) Methotrexate
(3) Acitretin
(4) Apremilast

144. Which of the following is not a Demelanizing Agent?
(1) Hydroquinone
(2) Monobenzone
(3) Psoralen
(4) Azelaic acid

145. Which of the following vitamin-B adversely affect the therapeutic response of Levo-dopa?
(1) Vitamin B₁
(2) Vitamin B₂
(3) Vitamin B₅
(4) Vitamin B₆

146. Vitamin B₆ deficiency is seen with the use of all of the following drugs except
(1) Cycloserine
(2) Cyclosporine
(3) INH
(4) d-Penicillamine

147. Which of the following pair is incorrect match regarding monoclonal antibodies and their common use?
(1) Abciximab – Antiplatelet
(2) Rituximab – Colon carcinoma
(3) Omalizumab – Bronchial asthma
(4) Transtuzumab – Breast carcinoma

148. An immunosuppressant is know to bind to cyclophilin and inhibit the action of calcineurin. Now patients should be monitored for which toxicity of that drug?
(1) Pulmonary fibrosis
(2) Hypotension
(3) Hypoglycaemia
(4) Nephrotoxicity

149. Which of the following drug can result in cyanide poisoning?
(1) Hydralazine
(2) Sodium Nitroprusside
(3) Hydroxycobalamin
(4) Sodium thiosulphate

150. Which of the following drug is not used in scabies?
(1) Ciclopirox
(2) Ivermectin
(3) Lindane
(4) Crotamiton

151. Antihelminteic also acting as immunomodulator is
(1) Pyrantel pamoiate
(2) Piperazine
(3) Levamisole
(4) Niclosamide

152. Most commonly used chelating agent in Wilson’s disease
(1) Deferiprone
(2) Dimericaprool
(3) Penicillamine
(4) EDTA
153. Loading dose of a drug depends upon
   (1) Volume of distribution
   (2) Clearance
   (3) Rate of administration
   (4) Half life of drug

154. ED₅₀ of a drug is a measure of
   (1) Safety
   (2) Potency
   (3) Efficacy
   (4) Toxicity

155. As per “Drugs and Cosmetic Act” prescription drugs are included in
   (1) Schedule C
   (2) Schedule H
   (3) Schedule P
   (4) Schedule X

156. Most drugs gain entry to cell by
   (1) Passive diffusion with zero-order kinetics
   (2) Passive diffusion with first-order kinetics
   (3) Active transport with zero-order kinetics
   (4) Active transport with first-order kinetics

157. Drugs that are highly bound to albumin:
   (1) Effectively cross the BBB
   (2) Are easily filtered at the glomerulus
   (3) Used to have large volume of distribution
   (4) Can compete with other drugs to bind with albumin

158. Which of the phase-II drug metabolism can have a genetic polymorphism?
   (1) Glucuronidation
   (2) Acetylation
   (3) Oxidation
   (4) Glutathione conjugation

159. Pharmacokinetic parameter of morphine include Vd - 400 L/70 kg CL - 600 ml/min and oral bioavailability fraction (F) = 0.25. What will be the loading dose to achieve a steady-state level of 25 mg/l?
   (1) 20 mg
   (2) 40 mg
   (3) 60 mg
   (4) 80 mg
160. Which type of drug will have maximum oral bioavailability?
   (1) Highly hydrophilic drugs
   (2) Chemically unstable drugs
   (3) Largely hydrophobic, yet soluble in aqueous solutions
   (4) Drugs that are P-Glycoprotein substrates

161. An Orphan drug is
   (1) A very cheap drug
   (2) A drug which has no therapeutic use
   (3) A drug used to treat rare disease
   (4) A drug which act on Orphanin receptor

162. Which of the following statement is false about pharmacokinetic of drug?
   (1) High plasma protein bound drug will have low volume of distribution.
   (2) Microsomal enzyme are located in mitochondria of hepatic cell.
   (3) Acidic drug mainly bound to albumin.
   (4) Most drugs are absorbed in un-ionized form.

163. Idiosyncratic reaction of a drug is
   (1) A type of hypersensitivity reaction.
   (2) A type of drug antagonism.
   (3) Unpredictable inherent abnormal reaction.
   (4) Quantitatively exaggerated response.

164. Which of the following drugs exhibit the “therapeutic window phenomenon”?
   (1) Lisinopril
   (2) Furosemide
   (3) Lorazepam
   (4) Imipramine

165. In an enzyme inhibition, if $U_{max}$ decrease by 50% and $K_m$ remain as before, Type of Enzyme Inhibition
   (1) Competitive equilibrium type
   (2) Non-competitive type
   (3) Competitive non-equilibrium type
   (4) Uncompetitive – enzyme desolution

166. Which phase of the clinical trial is aimed to decide the maximum tolerable dose of a new drug?
   (1) Phase II Randomised control trial
   (2) Phase III Randomised control trial
   (3) Phase I clinical trial
   (4) Case control study
167. Phase 4 (IV) of clinical trial collect information about
(1) Drug efficacy
(2) Drug potency
(3) Drug toxicity
(4) Pharmacoeconomics and market feasibility

168. Following drugs are used for overactive bladder, except
(1) Darifenacin
(2) Duloxetine
(3) Oxybutynin
(4) Flavoxate

169. Which of the following symptoms would you expect to see in carbonate poisoning?
(1) Urinary retention
(2) Tachycardia
(3) Constriction of pupil
(4) Dry mouth

170. Oral bioavailability is maximum out of following Beta (β) blocker
(1) Metoprolol
(2) Atenolol
(3) Acebutolol
(4) Bisoprolol

171. Which of the following statement is correct regarding sympathetic neurotransmission?
(1) Adrenaline is major neurotransmitter released for sympathetic nerve.
(2) Nor-adrenaline is major neurotransmitter released from Adrenal gland.
(3) Cocaine prevent reuptake of noradrenaline in presynaptic terminal.
(4) Monoamine oxidase-A (MAO-A) converts dopamine to noradrenaline

172. Following statements are correct regarding Alpha (α) blocker, except
(1) Alpha (α) blocker are used for treatment of hypotension in anaphylactic shock.
(2) Alpha (α) blocker are used for treatment of Benign Hypertrophy of Prostate (BHP).
(3) Alpha (α) blocker may cause tachycardia.
(4) Alpha (α) blocker may cause nasal stuffiness.

173. Drug which can be used to block the reflex Bradycardia caused by Alpha-1 agonist
(1) Metoprolol
(2) Atropine
(3) Mirtazapine
(4) Ephedrine
174. In bronchiolar smooth muscle, activation of muscarinic receptor will lead to
(1) Increase in IP$_3$ and DA$_4$.
(2) Activation of Adenyl cyclase.
(3) Decrease in cAMP.
(4) Inhibition of protein kinase C.

175. Autonomic nerve supply to Thermoregulatory sweat gland is
(1) Cholinergic nerves and muscarinic-3 receptor
(2) Adrenergic nerves and Alpha-1 receptors
(3) Adrenergic nerves and Beta-2 receptor
(4) Neurohumorally-released epinephrine

176. Following statements are false, except
(1) Hemicholinium decrease/prevent the release of ACh from storage vesicles.
(2) Botulin toxin increase the ACh release
(3) Pralidoxime reactivates Acetylcholine esterase
(4) Vesamicol inhibit the uptake of choline

177. True statement about Atropine except
(1) It is the drug of choice for cycloplegia in children.
(2) It is used to treat belladonna poisoning.
(3) It can precipitate Glaucoma
(4) It is used for A-V block

178. Lid retraction is caused by
(1) Bimatoprost
(2) Latanoprost
(3) Brimonidine
(4) Apraclonidine

179. Short duration of action of Esmolol is due to
(1) Rapid redistribution
(2) Fast excretion by kidney
(3) Hydrolysis by esterase
(4) Rapid plasma protein binding

180. Correct match of drug and their mechanism of action
(1) Brimonidine - Decrease aqueous production
(2) Bimatoprost - Carbonic anhydrase inhibitor
(3) Echothiopate - Increase Uveoscleral outflow
(4) Timolol - Increase trabecular outflow