

**AMA**  
**PROVISIONAL ANSWER KEY (CBRT)**

**Name of The Post**                      **Professor, Pharmacology, General State Service, Class-1**

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**Suggestion (S)**

**Instructions / સૂચના**

**Candidate must ensure compliance to the instructions mentioned below, else objections shall not be considered: -**

- (1) All the suggestion should be submitted Physically in prescribed format of suggestion sheet.
- (2) Question wise suggestion to be submitted in the prescribed format of Suggestion Sheet published on the website.
- (3) All suggestions are to be submitted with reference to the Master Question Paper with provisional answer key, published herewith on the website. Objections should be sent referring to the Question, Question No. & options of the Master Question Paper.
- (4) Suggestions regarding question nos. and options other than provisional answer key (Master Question Paper) shall not be considered.
- (5) Objections and answers suggested by the candidate should be in compliance with the responses given by him in his answer sheet /response sheet. Objections shall not be considered, in case, if responses given in the answer sheet /response sheet and submitted suggestions are differed. For the purpose, the candidate shall attach a copy of his answersheet/ Response sheet along with his application(s).
- (6) Objection for each question shall be made on separate Suggestion sheet. Objection for more than one question in single Suggestion sheet shall not be considered & treated as cancelled.

**ઉમેદવારે નીચેની સૂચનાઓનું પાલન કરવાની તકેદારી રાખવી, અન્યથા વાંધા-સૂચન અંગે કરેલ રજૂઆતો ધ્યાને લેવાશે નહીં**

- (1) ઉમેદવારે વાંધા-સૂચનો નિયત કરવામાં આવેલ વાંધા-સૂચન પત્રકથી રજૂ કરવાના રહેશે.
- (2) ઉમેદવારે પ્રશ્નપ્રમાણે વાંધા-સૂચનો રજૂ કરવા વેબસાઈટ પર પ્રસિધ્ધ થયેલ નિયત વાંધા-સૂચન પત્રકના નમૂનાનો જ ઉપયોગ કરવો.
- (3) ઉમેદવારે પોતાને પરીક્ષામાં મળેલ પ્રશ્નપુસ્તિકામાં છપાયેલ પ્રશ્નક્રમાંક મુજબ વાંધા-સૂચનો રજૂ ન કરતા તમામ વાંધા-સૂચનો વેબસાઈટ પર પ્રસિધ્ધ થયેલ પ્રોવિઝનલ આન્સર કી (માસ્ટર પ્રશ્નપત્ર)ના પ્રશ્ન ક્રમાંક મુજબ અને તે સંદર્ભમાં રજૂ કરવા.
- (4) માસ્ટર પ્રશ્નપત્ર માં નિર્દિષ્ટ પ્રશ્ન અને વિકલ્પ સિવાયના વાંધા-સૂચન ધ્યાને લેવામાં આવશે નહીં.
- (5) ઉમેદવારે જે પ્રશ્નના વિકલ્પ પર વાંધો રજૂ કરેલ છે અને વિકલ્પ રૂપે જે જવાબ સૂચવેલ છે એ જવાબ ઉમેદવારે પોતાની ઉત્તરવહીમાં આપેલ હોવો જોઈએ. ઉમેદવારે સૂચવેલ જવાબ અને ઉત્તરવહીનો જવાબ ભિન્ન હશે તો ઉમેદવારે રજૂ કરેલ વાંધા-સૂચન ધ્યાનમાં લેવાશે નહીં. આ હેતુ માટે, ઉમેદવારે પોતાની અરજી(ઓ) સાથે પોતાની જવાબવહીની એક નકલનું બિડાણ કરવાનું રહેશે.
- (6) એક પ્રશ્ન માટે એક જ વાંધા-સૂચન પત્રક વાપરવું. એક જ વાંધા-સૂચન પત્રકમાં એકથી વધારે પ્રશ્નોની રજૂઆત કરેલ હશે તો તે અંગેના વાંધા-સૂચનો ધ્યાને લેવાશે નહીં.

001. Which of the following drug is a microsomal enzyme inhibitor?  
 (A) Carbamazepine (B) Griseofulvin  
 (C) Phenytoin (D) Sodium valproate
002. Which one of the following is NOT a prodrug?  
 (A) Cyclophosphamide (B) Captopril  
 (C) Dipivefrine (D) Proguanil
003. Which one of the following does not require an enzyme for its biotransformation?  
 (A) Allopurinol (B) Adrenaline  
 (C) Atracurium (D) Succinylcholine
004. Which one of the following drug exhibit pharmacogenetic variation in metabolism due to acetylator status of a person?  
 (A) Abacavir (B) Gentamicin  
 (C) Isoniazid (D) Suxamethonium
005. Which one of the following receptors evoke secretions and facilitate peristaltic reflex in GI tract?  
 (A) 5-HT<sub>1</sub> (B) 5-HT<sub>2</sub>  
 (C) 5-HT<sub>3</sub> (D) 5-HT<sub>4</sub>
006. Glyceryltrinitrate is administered by all of the following routes EXCEPT;  
 (A) Oral (B) Sublingual  
 (C) Intramuscular (D) Transmucosal
007. What would be the drug of choice for a patient admitted to the emergency department with history of consuming large quantities of alprazolam tablets?  
 (A) Acamprosate (B) Betacarboline  
 (C) Flumazenil (D) Naltrexone
008. All of the following drugs when co-administered with theophylline reduce its clearance EXCEPT;  
 (A) Ciprofloxacin (B) Amoxicillin  
 (C) Erythromycin (D) Cimetidine
009. Which one of the following herbal preparation has antidepressant effect?  
 (A) Foxglove (B) Grapefruit juice  
 (C) St. John's wort (D) Rauwolfia Serpentina
010. Which one of the following scientists named the *acceleranstoff* as noradrenaline?  
 (A) Langley (B) Dixon  
 (C) Otto lowoewi (D) Von Euler
011. Sevoflurane is the choice of inhalational anaesthetic agent in children because it is;  
 (A) Highly Soluble (B) Non irritating to respiratory tract  
 (C) Pungent odour (D) Less liable to cause hypotension
012. A 32 year old patient while receiving halothane as inhalational anaesthetic agent developed hyperpyrexia (43°C), muscle rigidity, tachycardia and metabolic acidosis. Which one of the following drug could be lifesaving in this patient?  
 (A) Baclofen (B) Dantrolene  
 (C) Diazepam (D) Paracetamol

013. Which of the following can be used for transient and sleep onset insomnia?  
 (A) Rimonabant (B) Ramelteon  
 (C) Rivastigmine (D) Riluzole
014. Which one of the following drug used in Alzheimer's disease act by NMDA receptor antagonism?  
 (A) Donepezil (B) Galantamine  
 (C) Bapineuzumab (D) Memantine
015. Which one of the following is a 'Hit and Run' drug?  
 (A) Vigabatrin (B) Salbutamol  
 (C) Isosorbide dinitrate (D) Pregabalin
016. Gabapentine relieves neuropathic pain by acting on;  
 (A) Ca<sup>2+</sup> channel (B) Na<sup>+</sup> channel  
 (C) K<sup>+</sup> channel (D) GABA B receptor
017. Which one of the following drug used in Parkinsonism can cause *Livido reticularis*?  
 (A) Amantadine (B) Levodopa  
 (C) Ropinirole (D) Pramipexole
018. Which one of the following drug is a non-selective Monoamine oxidase (MAO) enzyme inhibitor?  
 (A) Moclobemide (B) Selegiline  
 (C) Tranylcypromine (D) Clorgyline
019. Which one of the following is an advantage of Selective serotonin reuptake inhibitors over tricyclic antidepressants?  
 (A) Do not cause sexual dysfunction  
 (B) No chances of drug-drug interactions  
 (C) Do not exhibit  $\alpha_2$  adrenoceptor blocking effects  
 (D) Do not exhibit anticholinergic side effects
020. Which one of the following drug is NOT a 'NOOTROPIC'?  
 (A) Pretomanid (B) Piracetam  
 (C) Memantine (D) Donepezil
021. Which one of the following is involved in NonadrenergicNoncholinergic (NANC) transmission?  
 (A) Nitric oxide (B) Acetylcholine  
 (C) Adrenaline (D) Noradrenaline
022. Dale's vasomotor reversal phenomenon is not demonstrated by noradrenaline because it has negligible action on;  
 (A) Alpha-1 adrenoceptor (B) Beta-1 adrenoceptor  
 (C) Beta-2 adrenoceptor (D) Beta-3 adrenoceptor
023. Which one of the following drug is used to differentiate 'myasthenic crisis' from 'cholinergic crisis'?  
 (A) Ambenonium (B) Edrophonium  
 (C) Neostigmine (D) Pyridostigmine
024. Which of the following drug is used as anticraving to support abstinence during rehabilitation therapy?  
 (A) Tolvaptan (B) Axitinib  
 (C) Acamprosate (D) None of the above

025. Tizanidine reduces muscle spasm by acting on;  
 (A) Alpha-2 receptor (B) Benzodiazepine receptor  
 (C) L Type Calcium channel (D) GABA-B receptor
026. Which one of the following Beta adrenoceptor blocker also enhance nitric oxide mediated transmission in hypertension?  
 (A) Alprenolol (B) Butoxamine  
 (C) Labetalol (D) Nebivolol
027. Which one of the following adverse reactions led to withdrawal of phenylpropanolamine from cough and cold preparations?  
 (A) Hypoglycemia (B) Hepatitis  
 (C) Hemorrhagic stroke (D) Hypertension
028. Which one of the following drug decreases both serum and urine uric acid levels?  
 (A) Colchicine (B) Indomethacin  
 (C) Probenecid (D) Allopurinol
029. High anticholinergic property is present in which one of the following antihistaminic;  
 (A) Diphenhydramine (B) Astemizole  
 (C) Cetirizine (D) Terfenadine
030. Which one of the following statement is true for radical cure of malaria?  
 (A) Chloroquine 30 mg weekly for *P.vivax* infection  
 (B) Primaquine 45 mg single dose for *P.falciparum* infection  
 (C) Primaquine 45 mg daily for 14 days for *P.ovale* infection  
 (D) All of the above
031. A 35 year patient on XDR –TB treatment regimens presented with reddish discoloration of skin and conjunctiva. Which one of the following drugs is most likely responsible for this side effect?  
 (A) Ethionamide (B) Ethambutol  
 (C) Cycloserine (D) Clofazimine
032. As per Drugs and Cosmetic Rules 2001, which Schedule deals with expiry period of drug formulations?  
 (A) E1 (B) N  
 (C) P (D) X
033. A neurological syndrome consisting of myelitis, peripheral neuritis and sub acute myelo-optic neuropathy has been reported in patients receiving which one of the following drugs?  
 (A) Iodochlorohydroxyquinoline (B) Diiodochlorohydroxyquinoline  
 (C) Broxyquinoline (D) Chloroquine
034. Ivermectin can be used in which one of the following clinical conditions?  
 (A) Hydatid cyst (B) Scabies  
 (C) Psoriasis (D) Taeniasis
035. Which one of the following is an inhibitor of the biosynthesis of adrenocortical steroids?  
 (A) Metronidazole (B) Albendazole  
 (C) Ketoconazole (D) Secnidazole
036. Which one of the following shows concentration as well as time dependent bacteriocidal action?  
 (A) Betalactams (B) Fluoroquinolones  
 (C) Aminoglycosides (D) Macrolides

037. Which one of the following cephalosporin has high activity against *pseudomonas aeruginosa*?  
 (A) Ceftriaxone (B) Ceftibuten  
 (C) Cefixime (D) Ceftazidime
038. Neuropsychiatric symptoms are common with which one of the following anti-tubercular drug?  
 (A) Rifampicin (B) Isoniazid  
 (C) Cycloserine (D) Ethionamide
039. Which one of the following antiretroviral drug should never be restarted once discontinued for hypersensitivity?  
 (A) Abacavir (B) Nevirapine  
 (C) Efavirenz (D) Lamivudine
040. Which one of the following adverse effect is associated with bisphosphonates?  
 (A) QT prolongation (B) Osteonecrosis of jaw  
 (C) Peptic ulcer (D) Osteosarcoma
041. Glucocorticoids are contraindicated in which type of tuberculosis?  
 (A) Respiratory tuberculosis (B) Tuberculous Meningitis  
 (C) Ileo-caecal tuberculosis (D) Pericarditis
042. Ulipristal is effective as emergency contraceptive up to how many hours of unprotected intercourse?  
 (A) 24 hours (B) 36 hours  
 (C) 72 hours (D) 120 hours
043. Which one of the following antimicrobial agent is used for hepatic encephalopathy?  
 (A) Tetracycline (B) Bleomycin  
 (C) Netilmycin (D) Neomycin
044. Which one of the following antifungal drugs has only topical action?  
 (A) Ketoconazole (B) Itraconazole  
 (C) Clotrimazole (D) Fluconazole
045. Which one of the following is the major drawback of artesunate ?  
 (A) Rapid recrudescence of malaria (B) Poor bioavailability  
 (C) Hemolysis (D) Hypoglycemia
046. Which one of the following is the drug of choice for the treatment of hydatid cyst?  
 (A) Metronidazole (B) Hydroquinone  
 (C) Albendazole (D) Pyrental palmoate
047. Zidovudine should not be combined with which one of the following drug?  
 (A) Lamivudine (B) Nevirapine  
 (C) Abacavir (D) Stavudine
048. Thalidomide is used for;  
 (A) HIV associated peripheral neuropathy (B) Multiple myeloma  
 (C) Sickle cell anemia (D) Breast cancer
049. Which one of the following parameters should be monitored if linezolid is administered for more than 14 days?  
 (A) Audiometry (B) Platelet count  
 (C) Renal function test (D) Liver function test

050. *Staphylococcus aureus* acquires resistance most commonly by;  
 (A) Transduction (B) Transformation  
(C) Mutation (D) Conjugation
051. Which one of the following drugs is having detergent like action?  
(A) Mupirocin (B) Fusidic acid  
(C) Bacitracin  (D) Colistin
052. Which one of the following fluoroquinolones is most commonly associated with *C. difficile* colitis?  
(A) Sparfloxacin (B) Gatifloxacin  
(C) Levofloxacin  (D) Ciprofloxacin
053. Which one of the following aminoglycoside is not a substrate for plasmid mediated enzymes for inactivating aminoglycoside?  
(A) Gentamicin (B) Tobramycin  
 (C) Amikacin (D) Sisomicin
054. Prolonged use of testosterone in man results in;  
 (A) Azoospermia (B) Stimulates spermatogenesis  
(C) Increased sperm motility (D) Alters sperm morphology
055. Which one of the following is the drug of choice for a 22 weeks pregnant patient diagnosed with thyrotoxicosis?  
(A) Iodine therapy (B) Carbimazole  
 (C) Methimazole (D) I<sup>131</sup>
056. Which one of the following is the site of action of enfuvirtide?  
(A) Gp 120  (B) Gp 41  
(C) CD4 (D) CCR5
057. Which one of the sulfonamides has maximum plasma protein binding capacity?  
 (A) Sulfadoxine (B) Sulfadimidine  
(C) Sulfadiazine (D) Sulfacetamide
058. Which one of the following is not a dose related reaction?  
 (A) Toxic epidermal necrolysis due to nevirapine  
(B) Peripheral neuropathy due to stavudine  
(C) Bone marrow depression due to azidothymidine  
(D) Lactic acidosis due to lamivudine
059. Which one of the following thyroid inhibitor produces the fastest clinical response in hyperthyroidism?  
 (A) Lugol's iodine (B) Lithium carbonate  
(C) Propylthiouracil (D) Radio active Iodine
060. All of the following statements regarding finasteride are true, EXCEPT;  
 (A) It is effective in the treatment of benign prostatic hypertrophy  
(B) Impotence is well documented after its use  
(C) It blocks the conversion of dihydrotestosterone to testosterone  
(D) It is a 5- $\alpha$  reductase inhibitor
061. Which one of the following drug can be used in hirsutism?  
(A) Silodosin (B) Oxymethalone  
 (C) Eflornithine (D) Ethylestrenol

062. A hospital participating in clinical trial enrolls 1000 patients, half receive a test drug and half receive a placebo. Which of the following in drug development process does this scenario most closely resemble?
- (A) New drug application (B) Phase I  
(C) Phase II (D) Phase III
063. A post-menopausal woman treated with raloxifene has increased risk of,
- (A) Breast cancer (B) Endometrial cancer  
(C) Vein thrombosis (D) Atrophic vaginitis
064. Which one of the following type of cataract is induced by long term glucocorticoid therapy?
- (A) Snowflake (B) Posterior sub capsular  
(C) Punctuate (D) Sunflower
065. The maternal intake of which of the following drug is associated with hypospadias in the male infant?
- (A) Clomiphene citrate (B) Clobazam  
(C) Diethyl stilbesterol (D) Tolbutamide
066. What is the plasma half life of regular insulin?
- (A) 3-5 seconds (B) 3-5 minutes  
(C) 10-20 seconds (D) 10-20 minutes
067. Which one of the following is correct regarding insulin glargine?
- (A) Causes body weight gain  
(B) Rapid onset of action and longer action  
(C) Can be mixed with any other form of insulin  
(D) Mimics endogenous insulin release
068. Which one of the following drug is most effective for fibrocystic disease of the breast?
- (A) Drospirenone (B) Estradiol  
(C) Danazol (D) Tibolone
069. Use of glucocorticoids in pediatric patients may cause;
- (A) Reye's syndrome (B) Stunted growth  
(C) Hepatotoxicity (D) Nephrotoxicity
070. A 65 year old woman is being prepared for major surgery. Before intubation, she is given a skeletal muscle relaxant. Soon the patient showed muscle fasciculation and twitching of abdominal and thoracic region prior to muscle relaxation. On examination, BP 100/80 mmHg, respiratory rate 10/min, oxygen saturation 96%. Which one of the following drugs was most likely administered?
- (A) Atracurium (B) Succinylcholine  
(C) Tubocurare (D) Vecuronium
071. Which one of the following anticholinesterase agent is a carbamate inhibitor?
- (A) Tacrine (B) Neostigmine  
(C) Donepezil (D) Fasciculin

072. A patient is administered a skeletal muscle relaxant prior to abdominal hysterectomy. The patient soon exhibited hypotension (BP=80/60 mm Hg), difficulties in breathing (bronchospasm), coughing, and excessive salivary and bronchial secretions. Which one of the following drugs did this patient receive?
- (A) Atracurium (B) Baclofen  
 (C) Tubocurare  (D) Vecuronium
073. Which one of the following  $\beta$  receptor antagonist also block  $\alpha_1$  receptor?
- (A) Carvedilol (B) Celiprolol  
 (C) Timolol (D) Propranolol
074. Which one of the following drug is selective-norepinephrine reuptake inhibitor?
- (A) Paroxetine  (B) Duloxetine  
 (C) Fluoxetine (D) Doxepine
075. Phenytoin is metabolized by which of the following microsomal enzyme?
- (A) CYP2C9 (B) CYP3A4  
 (C) CYP3A5 (D) CYP2C19
076. Which one of the following is a nicotinic receptor antagonist?
- (A) Dicycloverine (B) Tolterodine  
 (C) Mecamylamine (D) Oxybutynin
077. Which one of the following is a pure opioid antagonist?
- (A) Nalorphine  (B) Naloxone  
 (C) Propiram (D) Profadol
078. Which one of the following organophosphorous is known as Tik-20?
- (A) Fenthion (B) Malathion  
 (C) Sumithion (D) Monocrotophos
079. Which one of the following anti-glaucoma drug instilled in eyes can cause systemic side effects?
- (A) Timolol (B) Clonidine  
 (C) Pilocarpine (D) Dorzolamide
080. A young patient in medical ward has been diagnosed with peripheral shock with decreased renal output following septicemia. Which one of the following drug will be most appropriate for this patient?
- (A) Phenylephrine (B) Isoproterenol  
 (C) Dobutamine  (D) Dopamine
081. Varenicline, used for smoking cessation acts by;
- (A) CB<sub>1</sub> receptor  
 (B) Partial agonist at central nAChR subtypes  
 (C) Agonist of GABA<sub>B</sub> receptor  
 (D) Blocks voltage sensitive sodium channels
082. Tiagabine, antiepileptic drug acts by which one of the following mechanism?
- (A) Inhibits GABA uptake transporter in both neurons and glia  
 (B) Facilitating potassium channel  
 (C) Prolongation of the inactive state of the Na<sup>+</sup> channel  
 (D) GABA agonist



083. Which one of the following drug has been approved for weight loss?  
 (A) Topiramate (B) Phentermine  
 (C) Liraglutide (D) All of the above
084. Mirabegron acts by which of the following mechanism?  
 (A) Beta 2 selective receptor antagonist  
 (B) Alpha 1 selective receptor agonist  
 (C) Beta 3 selective receptor agonist  
 (D) Alpha 1 selective receptor antagonist
085. Which of the following antiplatelet drug has rapid onset of action ?  
 (A) Ticlopidine (B) Clopidogrel  
 (C) Prasugrel (D) Ticagrelor
086. Which one of the following antihypertensive combination should be avoided?  
 (A) Furosemide + Eplerenone (B) Nebivolol + Verapamil  
 (C) Irbesartan + Chlorthalidone (D) Felodipine + Metoprolol
087. Which of the following drug given concurrently with digoxin can enhance its toxicity?  
 (A) Phenobarbitone (B) Metoclopramide  
 (C) Quinidine (D) Magnesium hydroxide
088. Which one of the following drugs have potential to prolong QTc interval?  
 (A) Pentamidine (B) Orexin  
 (C) Dexmedetomidine (D) Suvorexant
089. Long-term hydralazine therapy is likely to cause:  
 (A) Gynaecomastia (B) Thrombocytopenia  
 (C) Haemolytic anaemia (D) Lupus erythematosus
090. Blood levels of which one of the following clotting factor declines most rapidly after the initiation of warfarin therapy?  
 (A) Factor VII (B) Factor IX  
 (C) Factor X (D) Prothrombin
091. Which one of the following diuretic abolishes the corticomedullary osmotic gradient in the kidney?  
 (A) Acetazolamide (B) Furosemide  
 (C) Hydrochlorothiazide (D) Spironolactone
092. With the same natriuretic doses which diuretic causes the maximum K<sup>+</sup> loss?  
 (A) Furosemide (B) Hydrochlorothiazide  
 (C) Acetazolamide (D) Amiloride
093. Select the drug which is K<sup>+</sup> channel opener as well as nitric oxide donor;  
 (A) Diazoxide (B) Sodium nitroprusside  
 (C) Minoxidil (D) Nicorandil
094. Which of the following fibrinolytic can be given as bolus dose in patients with acute myocardial infarction?  
 (A) Urokinase (B) Alteplase  
 (C) Reteplase (D) All of above

095. Which of the following is used to treat severe pulmonary hypertension?  
 (A) Enalapril (B) Omapatrilat  
 (C) Bosentan (D) Endothelin
096. All of the following drugs reduce after load EXCEPT :  
 (A) Enalapril  (B) Propranolol  
 (C) Hydralazine (D) Sodium nitroprusside
097. Triamterene causes:  
 (A) Hypokalemia  (B) Muscle cramps  
 (C) Decrease in urea level (D) Better glucose tolerance
098. The most effective drug for prevention of stroke in atrial fibrillation is;  
 (A) Aspirin  (B) Warfarin  
 (C) Low dose subcutaneous heparin (D) Digoxin
099. Which one of the following drug is contraindicated in Prinzmetal's angina:  
 (A) Glyceryltrinitrate (B) Verapamil  
 (C) Propranolol (D) Nicorandil
100. A 57 years old smoker with COPD presents with a BP of 150/95mm Hg. Which of the following antihypertensives is contraindicated in this patient?  
 (A) Nadolol (B) Esmolol  
 (C) Acebutolol (D) Metoprolol
101. Short elimination half-life (8-10 minutes) of esmolol is due to;  
 (A) Rapid redistribution (B) Rapid elimination by kidney  
 (C) Hydrolysis by blood esterase (D) Inactivation by plasma exosomes
102. Ivabradine is indicated in which one of the following condition?  
 (A) Angina pectoris (B) Irritable Bowel Syndrome  
 (C) Mitral stenosis (D) Cardiomyopathy
103. Which of the following antiepileptic drug will be most appropriate for a pregnant patient?  
 (A) Trimethadione (B) Primidone  
 (C) Ethosuximide (D) Phenobarbitone
104. Vitamin B12 and folic acid supplementation in megaloblastic anaemia leads to improvement of anaemia due to;  
 (A) Increased DNA synthesis in bone marrow  
 (B) Increased haemoglobin production  
 (C) Erythroid hyperplasia  
 (D) Increased iron absorption
105. Which one of the following drugs is used to prevent neural tube defects during pregnancy?  
 (A) Vitamin K (B) Vitamin B12  
 (C) Folic acid (D) Vitamin C
106. A 50 year old man with moderate familial hypertriglyceridemia is treated with gemfibrozil. Which one of the following is the primary mechanism of action of the drug?  
 (A) Inhibition of HMG-Co A reductase  (B) Stimulation of lipoprotein lipase  
 (C) Binding of bile acid in intestines (D) Inhibition of hepatic VLDL secretion

107. The 'suicide substrate' for low molecular weight heparin is,  
 (A) Factor VII (B) Factor Xa  
 (C) Antithrombin (D) None of the above
108. All of the following are true for nicotinic acid EXCEPT:  
 (A) Most effective drug to raise HDL cholesterol  
 (B) Lipid lowering action is related to its vitamin activity  
 (C) It is cutaneous vasodilator  
 (D) Used in pancreatitis
109. Plasma expanders are used in;  
 (A) Neurogenic shock (B) Vasovagal shock  
 (C) Anaphylactic shock (D) Endotoxin shock
110. Methotrexate toxicity is treated with which one of the following drug?  
 (A) Pteroylmonoglutamic acid (B) Citrovorum factor  
 (C) Hydroxocobalamin (D) Filgrastim
111. All is true about fondaparinx EXCEPT :  
 (A) Should not be used in patients with renal failure  
 (B) Interacts with platelets and induce thrombocytopenia  
 (C) Given once a day  
 (D) Approved for patients undergoing knee surgery
112. Which one of the following is true for anistreplase ?  
 (A) Low affinity for circulating free plasminogen  
 (B) High affinity for circulating free plasminogen  
 (C) Low affinity for plasminogen bound to fibrin clot  
 (D) High affinity for plasminogen bound to fibrin clot
113. Tranexaemic acid acts by which one of the following mechanisms?  
 (A) Inhibits plasminogen activation (B) Inhibits fibrinolysis  
 (C) Antiplatelet action (D) Anticoagulant action
114. Abciximab acts by which one of the following mechanisms?  
 (A) Inhibits ADP (B) Inhibits Thromboxane synthetase  
 (C) Glycoprotein IIb/IIIa receptor (D) Phosphodiesterase
115. The rationale to use heparin simultaneously with rt-PA in patients of myocardial infarction is to;  
 (A) Reduce rethrombosis (B) Prolong duration of action  
 (C) Activate fibrin specific plasminogen (D) Reduce adverse reactions
116. All of the following are the indications for the use of thiazides EXCEPT;  
 (A) Calcium nephrolithiasis (B) Hyperparathyroidism  
 (C) Nephrogenic diabetes insipidus (D) Osteoporosis
117. Which one of the following diuretic combination exhibit synergism?  
 (A) Hydrochlorothiazide + triamterene (B) Metolazone + Bumetanide  
 (C) Acetazolamide + Spironolactone (D) Aminophylline + Amiloride
118. Which one of the following diuretic retains its effectiveness in acute oliguric renal failure?  
 (A) Acetazolamide (B) Thiazide  
 (C) Mannitol (D) Eplerenone

119. Spironolactone is useful in which of the following conditions?  
(A) Cirrhotic oedema (B) Idiopathic oedema  
(C) Cardiac oedema (D) Nutritional oedema
120. Which one of the following antihistaminic contain high anticholinergic property?  
(A) Diphenhydramine (B) Astemizole  
(C) Cetirizine (D) Terfenadine
121. Adrenal steroid production is enhanced by:  
(A) PGD<sub>2</sub> (B) PGF<sub>2</sub>  
(C) PGE<sub>2</sub> (D) PGI<sub>2</sub>
122. Drugs used in the prophylaxis of migraine are all EXCEPT;  
(A) Propanolol (B) Flunarizine  
(C) Topiramate (D) Levetiracetam
123. Actions of bradykinin include the following EXCEPT:  
(A) Cardioprotective (B) Decrease renal blood flow  
(C) Increase in capillary permeability (D) Bronchoconstriction
124. The most common and dose related side effect of salbutamol is:  
(A) Rise in blood pressure (B) Muscle tremor  
(C) Hyperglycaemia (D) Central nervous system stimulation
125. How much pH in the gastric lumen stimulates somatostatin release?  
(A) 9 (B) 7  
(C) 4 (D) 2
126. Which one of the following is the most appropriate drug for NSAID induced gastric ulcer?  
(A) Lansoprazole (B) Misoprostol  
(C) Prostaglandin E2 (D) Al<sup>+++</sup> containing antacids
127. Mitemcinal is;  
(A) C-terminal octapeptide of CCK (B) Macrolide nonantibiotic  
(C) 5-HT<sub>3</sub> antagonist (D) 5-HT<sub>4</sub> agonist
128. Which one of the 5-HT<sub>3</sub> antagonist is preferred for the treatment of diarrhea predominant Irritable Bowel Syndrome in women?  
(A) Ondansetron (B) Alosetron  
(C) Granisetron (D) Palonosetron
129. What is the rational for use of corticosteroids in the treatment of bronchial asthma?  
(A) Increase in density of receptors (B) Increase in tidal volume  
(C) Increase in sensitivity of receptors (D) Increase in forced expiratory volume
130. A 75 year old woman with multiple myeloma is prescribed high dose of doxorubicin. She has been asked to come for follow up after 72 hours. Which one of the following clinical examination is essential for patient safety?  
(A) Papilloedema (B) Hematological  
(C) ECG (D) Liver function tests

131. A 37 year old man being treated for non-Hodgkin's lymphoma presents with complains of cough and dyspnoea. Physical examination reveals bilateral lung crepitations. Which one of the following antineoplastic drug is responsible for this adverse effect?  
 (A) Bleomycin  (B) Cyclophosphamide  
 (C) Vincristine  (D) Cisplatin
132. A 33 year old man receiving chemotherapy for testicular carcinoma develops signs of renal tubular damage. Which of the following drug is most likely responsible for this nephrotoxicity?  
 (A) Bleomycin  (B) Cisplatin  
 (C) Vinblastine  (D) Vincristine
133. Which of the following anticancer drug can cause Hemorrhagic cystitis?  
 (A) Cyclophosphamide  (B) Busulfan  
 (C) Mechlorethamine  (D) Chlorambucil
134. Which one of the following epigenetic modifier has been approved for treatment of refractory cutaneous T-cell Lymphoma?  
 (A) Mechlorethamine  (B) Bexarotene  
 (C) Denileukin diftitox  (D) Vorinostat
135. Ixabepilone is approved for which one of the following treatment ?  
 (A) Ovarian cancer  (B) Breast cancer  
 (C) Lung cancer  (D) Hematologic cancer
136. Which one of the following statement is true for anthracyclines antibiotics?  
 (A) Myelosuppression toxicity is dose limiting  
 (B) Cardiac conduction abnormalities may occur with the first 2-3 days  
 (C) Dilated cardiomyopathy with heart failure is dose –dependent  
 (D) All of the above
137. Bleomycin, cell cycle specific anticancer drug acts on which phase of cell cycle?  
 (A) G<sub>1</sub> – S phase  (B) G<sub>2</sub> – M phase  
 (C) M phase  (D) S phase
138. What is the incidence of leukemogenesis by the alkylating agent?  
 (A) 0.1%  (B) 0.5%  
 (C) 5%  (D) 10%
139. Before initiation of therapy with rituximab the patient should be screened for which one of the following?  
 (A) Hepatitis B  (B) Active Tuberculosis  
 (C) HIV  (D) Glaucoma
140. Eterncept acts by which one of the following mechanisms?  
 (A) By blocking tumor necrosis factor  (B) By blocking bradykinin synthesis  
 (C) By inhibiting cyclo-oxygenase  (D) By blocking lipoygenase
141. Which one of the following cannot be used as a method of measurement of bioavailability of a drug?  
 (A) Trapezoid rule  (B) Planimeter  
 (C) Cut and Weigh  (D) Schild's plot

142. Steady state blood level of digoxin are achieved after how many days of initiation of therapy?  
(A) 1 (B) 3  
(C) 5 (D) 7
143. A drug with a half life of 12 hours is administered by continuous intravenous infusion. How long will it take for the drug to reach 90% of its final steady state level?  
(A) 18 hours (B) 24 hours  
(C) 30 hours (D) 40 hours
144. Which one of the following is true for a drug whose elimination from plasma shows first order kinetics?  
(A) The half life of the drug is proportional to the drug concentration in plasma  
(B) The amount eliminated per unit time is constant  
(C) The rate of elimination is proportional to the plasma concentration  
(D) Elimination involves a rate limiting enzyme reaction operating at its maximal velocity
145. Which one of the following is correct for Harris-Kefauver Amendment to Food and Drug Act?  
(A) Required extensive information on excipient in formulation  
(B) Required extensive information before testing in humans  
(C) Required information on the risk to benefit ratio  
(D) Required extensive information on safety of drugs
146. Right of an individual to control the information that can be collected and stored, in clinical study refers to;  
(A) Autonomy (B) Confidentiality  
(C) Privacy (D) Justice
147. One of the first regulations to propose informed voluntary consent in Clinical research;  
(A) Nuremberg Code  
(B) Declaration of Helsinki  
(C) Belmont report  
(D) International Conference on Harmonization
148. Which one of the following statement is true for investigational new drug?  
(A) Approved by central licensing authority  
(B) Not approved for marketing in any country.  
(C) Not approved as safe and efficacious by Central licensing authority  
(D) Approved as per specific labelling conditions in any country
149. Which one of the following statement is true for post trial access of drug as per New Drugs and Clinical Trials Rules?  
(A) Regulatory approval is mandatory for post trial use  
(B) Sponsor is liable for any SAE or misuse of the drug  
(C) Sponsor has no liability for post trial use of the drug  
(D) Investigator has no liability for post trial use of the drug
150. The base amount to determine the quantum of compensation in serious adverse event resulting into death is;  
(A) 2 lacs (B) 4 lacs  
(C) 6 lacs (D) 8 lacs

151. Which one of the following adverse reaction can be classified as Type E?  
 (A) Allergy due to Beta Lactams  
 (B) Dyskinesia due to Phenothiazines  
 (C) Adenocarcinoma of vagina due to Diethylstilbestrol  
 (D) Rebound hypertension on sudden stoppage of clonidine
152. Which one of the following drug does not require therapeutic drug monitoring?  
 (A) Lithium (B) Digoxin  
 (C) Glipizide (D) Gentamicin
153. Therapeutic plasma level of digoxin is;  
 (A) 0.1-0.3 ng/ml (B) 0.3-0.5 ng/ml  
 (C) 0.5-2 ng/ml (D) 2-4 ng/ml
154. Which of the following drugs can cause positive Coomb's test and haemolytic anaemia?  
 (A) Clonidine (B) Minoxidil  
 (C) Methyldopa (D) Labetalol
155. Which of the following antimalarials have fastest fever and parasite clearance time?  
 (A) 4-aminoquinoline (B) 8-aminoquinoline  
 (C) Quinoline-methanol (D) Amino-alcohols
156. In unconjugated hyperbilirubinemia, the risk of kernicterus increases with the use of which one of the following drugs?  
 (A) Ceftriaxone (B) Phenobarbitone  
 (C) Ampicillin (D) Sulphonamides
157. Which one of the following criteria may be considered for accelerated approval for clinical trial application of new drug in special situation?  
 (A) Safety observed in Phase I (B) Efficacy observed in Phase II  
 (C) Efficacy observed in Phase III (D) Safety observed in Phase II
158. Breast cancer patients with acquired genetic changes and expression of the Her2 antigen are more likely to benefit from which one of the following drugs?  
 (A) Gefitinib (B) Trastuzumab  
 (C) Bevacizumab (D) Sunitib
159. Which of the following statement is true for clinical uses of bevacizumab?  
 (A) It delays the progress of renal cell cancer  
 (B) Improves survival in epithelial cancers in combination with standard chemotherapeutic agents  
 (C) Used in age related macular degeneration causing visual loss  
 (D) All of the above
160. Which one of the following is epidermal growth factor inhibitor?  
 (A) Imatinib (B) Dasatinib  
 (C) Nibtinib (D) Gefitinib
161. Which of the following assessment is essential before initializing trastuzumab therapy?  
 (A) Renal blood flow (B) Cardiac ejection fraction  
 (C) Pulmonary function tests (D) Liver function tests

162. Which of the following drug has been reported to cause malignant tumors like lymphomas on repeated administration?  
 (A) Thalidomide (B) Everolimus  
 (C) Mycophenolate (D) Azathioprine
163. Lenalidomide has been approved for which of the following condition?  
 (A) Refractory cutaneous lupus (B) Multiple myeloma  
 (C) Erythema nodosum leprosum (D) Advance prostate cancer
164. Rifampin is useful for which one of the following condition?  
 (A) Prophylaxis of H.influenze meningitis.  
 (B) Prophylaxis of streptococcal endocarditis.  
 (C) Prophylaxis of pseudomonas meningitis.  
 (D) None of the above.
165. Which one of the following can cause red man syndrome?  
 (A) Azithromycin (B) Rifamycin  
 (C) Pyrazinamide (D) Ethionamide
166. Rifampin administration can decrease  $t_{1/2}$  of which one of the following drugs?  
 (A) Nevirapine (B) Mexiletine  
 (C) Clofibrate (D) All of the above
167. Which one of the following drugs can cause ocular toxicity?  
 (A) Sildenafil (B) Sofosbuvir  
 (C) Sorafenib (D) All of the above
168. Which antitubercular drug gets activated by acidic condition?  
 (A) Isoniazid (B) Pyrazinamide  
 (C) Pyrimethamine (D) Primaquine
169. Which of the following drug may cause acute gout?  
 (A) Pyrazinamide (B) Prothionamide  
 (C) Psilocybin (D) Pyrimethamine
170. Which of the following plasma concentration is recommended for antiasthma effect of theophylline?  
 (A) 1-5 mg/L (B) 5-15mg/L  
 (C) 15-25mg/L (D) 25- 40mg/
171. Which of the following anti tubercular drug is administered as injectable dosage form?  
 (A) Cycloserine (B) Capreomycin  
 (C) Para amino salicylic acid (D) Ethionamide
172. Which one of the following statement is correct?  
 (A) Rifampin is less potent inducer of CYP than rifapentine  
 (B) Rifampin is less potent inducer of CYP than rifabutin  
 (C) Rifabutin is less potent inducer of CYP than rifampin  
 (D) None of the above
173. First line agent for cutaneous and visceral leishminiasis is;  
 (A) Nitazoxamide (B) Suramin  
 (C) Sodium stibogluconate (D) Melarsoprol



174. Which one of the following drug acts on acetylcholine receptors at neuromuscular junction of nematodes?  
 (A) Pyrantel pamoate (B) Praziquantel  
 (C) Piperazine (D) Ivermectin
175. Which one of the following drug is effective in *S.hematobium* infection?  
 (A) Artemether (B) Praziquantel  
 (C) Metrifonate (D) All of the above
176. Antihelminthic activity of levamisole is due to,  
 (A) Sensitization of the worm and easy phagocytosis.  
 (B) Stimulation of glutamate gated chloride channel.  
 (C) Irreversible, non-competitive, depolarization of neuromuscular block  
 (D) Inhibits microtubule polymerization.
177. Select the most appropriate for amphotericin B infusion related reaction of various preparations in order of severity;  
 (A) Liposomal > conventional > lipid complex > colloidal dispersion  
 (B) Conventional > colloidal dispersion > lipid complex > liposomal  
 (C) Colloidal dispersion > conventional > lipid complex > liposomal  
 (D) Liposomal > lipid complex > colloid dispersion > conventional
178. Fluconazole is inhibitor of the following CYP enzymes EXCEPT:  
 (A) CYP3A4 (B) CYP2D6  
 (C) CYP2C9 (D) CYP2C19
179. Which one of the following protease inhibitor is nonpeptide?  
 (A) Indinavir (B) Atazanavir  
 (C) Tipranavir (D) Fosamprenavir
180. Which one of the following is an integrase inhibitor?  
 (A) Enfuvirtide (B) Maraviroc  
 (C) Ripilvirine (D) Raltegravir
181. Which one of the following drug is effective against HIV resistant to first generation Non Nucleoside reverse transcriptase inhibitors (NNRTI)?  
 (A) Delavirdine (B) Etravirine  
 (C) Maraviroc (D) Raltegravir
182. All of the following causes lipodystrophy syndrome EXCEPT  
 (A) Atazanavir (B) Indinavir  
 (C) Amprenavir (D) Ritonavir
183. All of the following are active against Hepatitis B virus EXCEPT;  
 (A) Lamivudine (B) Adefovir  
 (C) Didanosine (D) Tenofovir
184. Which one of the following drug can eradicate hepatic forms of *P.vivax* and *P.ovale*?  
 (A) Chloroquine (B) Pyrimethamine  
 (C) Proguanil (D) Primaquine

185. Which one of the following antimalarial drug can prolong QT and PR interval?  
 (A) Halofantrine (B) Artesunate  
 (C) Lumefantrine (D) All of the above
186. Itraconazole is the drug of choice for patients with non meningial infections due to all of following EXCEPT  
 (A) *B. dermatitidis* (B) *H. capsulatum*  
 (C) *P. brasiliensis* (D) *Polytolyta hystricis*
187. Which one of the following is the mechanism of action Terbinafine ?  
 (A) Binds to ergosterol (B) Prevents formation of purine ring  
 (C) Inhibition of microtubule formation (D) Inhibition of ergosterol synthesis
188. Principal limiting toxicities of systemic interferon are all of the following EXCEPT;  
 (A) Depression (B) Myelosuppression with granulocytopenia  
 (C) Thrombocytopenia (D) Rashes
189. Interferon has been granted orphan drug status for all of the following EXCEPT;  
 (A) Idiopathic pulmonary fibrosis (B) Juvenile rheumatoid arthritis  
 (C) Cryptococcal meningitis (D) Laryngeal papillomatosis
190. Which one of the following is the drug of choice for surgical prophylaxis in colorectal surgery against intestinal anaerobes?  
 (A) Cefoxitin (B) Cefepime  
 (C) Cefazolin (D) Cefpodoxime
191. Which one of the following is the mechanism of action of methanamine mandelate used in treatment of urinary tract infection?  
 (A) Formaldehyde generation  
 (B) Damage DNA by formation of highly reactive metabolites  
 (C) It is not a urinary antiseptic but for symptomatic treatment  
 (D) None of the above.
192. Which one of the following is the drug of choice for genital herpes?  
 (A) Valacyclovir (B) Acyclovir  
 (C) Famciclovir (D) None of the above
193. Which one of the following is the used for the treatment of Chlamydia urethritis?  
 (A) Ceftriaxone 125 mg i.m (B) Cefixime 400 mg orally  
 (C) Azithomycin 1g orally (D) None of the above
194. Which one of the following betalactum antibiotics are NOT effective against *pseudomonal* infection?  
 (A) Carbenicillin (B) Ticarcillin  
 (C) Mezocillin (D) Naficillin
195. Third generation cephalosporin are the drug of choice for treatment of meningitis caused by;  
 (A) *B. fragilis* (B) *H. influenzae*  
 (C) *Listeria monocytogenes* (D) None of the above
196. Which one of the following adverse reactions is associated with the use of pentamidine?  
 (A) Hypoglycemia (B) Renal dysfunction  
 (C) Elevation of liver enzymes (D) All of the above

197. Which one of the following is the drug of choice for *pneumocystis pneumonia* in AIDS patient?  
(A) Pentamidine (B) Trimethoprim Sulfamethoxazole  
(C) Atovaquone (D) Sodium stibogluconate
198. Which of the following drug can causes pseudo tumor cerebri?  
(A) Sparfloxacin (B) Tetracycline  
(C) Gentamycin (D) Clofazimine
199. Which one of the following is the most appropriate antidote for a patient diagnosed with sulfonamides induced methemoglobinemia?  
(A) Blood transfusion (B) Hydrocortisone  
(C) Methylene blue (D) All of the above
200. Which one of the following is the most appropriate antidote for chronic mercury poisoning?  
(A) Succimer (B) Dimercaprol  
(C) Calcium gluconate (D) EDTA