

AMX

PROVISIONAL ANSWER KEY (CBRT)

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Instructions / સૂચના

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

- (1) All the suggestion should be submitted in prescribed format of suggestion sheet Physically.
- (2) Question wise suggestion to be submitted in the prescribed format (Suggestion Sheet) published on the website.
- (3) All suggestions are to be submitted with reference to the Master Question Paper with provisional answer key (Master Question Paper), 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. Objections shall not be considered, in case, if responses given in the answer sheet /response sheet and submitted suggestions are differed.
- (6) Objection for each question shall be made on separate sheet. Objection for more than one question in single 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 વેબસાઇટ 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 વેબસાઇટ 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.
- (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. A 52 yrs old patient with myocardial infarction presents with dizziness and giddiness. ECG examination reveals ventricular premature beats. Which of the following drug would be most appropriate for this patient?
- (A) Carvedilol (B) Quinidine
(C) Digoxin (D) Adenosine
002. Which of the statement is correct for lignocaine?
- (A) Acts on AV conduction and automaticity is useful for ventricular arrhythmia
(B) It has long half life
(C) Electrophysiological effects on SA node makes it more suitable for arrhythmias
(D) Selective action on ischemic myocardium and automaticity in ventricle tissue
003. A congestive heart failure patient on digoxin treatment for a month reports dizziness and fatigue. On examination her BP 110/70 mm hg and pulse rate 50/min. Which of the following drug is contraindicated in this patient?
- (A) Nifedipine (B) Nicorandil
(C) Ivabradine (D) Ranolazine
004. Cilostazol acts by;
- (A) 5HT₂ antagonist (B) Anti platelet action
(C) Improves microcirculation (D) PDE3 inhibitor
005. Which one of the following is CYP3A4 inhibitors?
- (A) Telithromycin (B) Elvitegravir
(C) Ketoconazole (D) All of the above
006. A 37 yrs old HIV positive patient presents with dark colour pigmentation of nails. The patients have been on ART regimen for last 3 years. Which of the following drug is most likely responsible for this?
- (A) Lamivudine (B) Nevirapine
(C) Azidothymidine (D) Lopinavir + Ritonavir
007. Which of the following drug has potential to cause bone loss and osteoporosis?
- (A) Rafoxanide (B) Raloxifene
(C) Tenofovir (D) Thyroxine
008. Which of the following drug is effective in prevention of from mother to child HIV transmission?
- (A) Efavirenz (B) Ritonavir
(C) Emtricitabine (D) None of the above
009. A 32 years old HIV positive patient presents with hypophosphataemia, hypouricaemia, proteinuria. Which of the following drug is most likely responsible for this condition?
- (A) Tenofovir (B) Stavudine
(C) Didanosine (D) Emtricitabine
010. What is the drug of choice for a patient diagnosed hypercalcemia due to vit. D overdose ?
- (A) Ketoconazole (B) Glucocorticoids
(C) Hydroxychloroquine (D) Chloroquine

011. Which of the following drug can be used to block metabolism of ethylene glycol?
 (A) Ketoconazole (B) Glucocorticoids
 (C) Fomepizole (D) Flumazenil
012. An old patient presents with acute overdose of digoxin along with renal insufficiency. Which of the following should be absolutely contraindicated?
 (A) Potassium (B) Calcium
 (C) Sodium (D) None of the above
013. Which of the following statement is true for iron absorption from G I tract?
 (A) Takes place primarily in stomach
 (B) Is in ferric form
 (C) Is facilitated by cysteine
 (D) Is increased by high ferritin content in mucosal cell
014. Which one of the following should be taken into consideration while selecting iron formulation?
 (A) Elemental iron content (B) Combination with vitamins
 (C) Combination with minerals (D) Quantity of iron compound per dose
015. Molgrastim is used to treat;
 (A) Anemia due to dietary deficiency (B) Neutropenia induced by zidovudine
 (C) Thrombocytopenia induced by heparin (D) Folic acid deficiency induced by phenytoin
016. There is considerable delay between administration of warfarin and the desired anticoagulant effect because,
 (A) The absorption from human gut is slow and incomplete
 (B) Undergoes extensive first pass metabolism
 (C) Mutational changes in the enzyme give rise to warfarin resistance
 (D) Half lives of coagulation factors are 30-60 hrs.
017. Tranexaemic acid acts by;
 (A) Inhibition of plasminogen activation (B) Fibrinolysis
 (C) Antiplatelet action (D) Anticoagulant action
018. A 62 year old man complain of pain and swelling in left leg and thigh that exacerbate by walking. Which of the following drug that inhibits the enzyme epoxide reductase can be prescribed in this patient?
 (A) Acetylsalicylic acid (B) Vitamin K
 (C) Streptokinase (D) Warfarin
019. Heparin achieves its anticoagulant activity by binding to which of the following substrates?
 (A) Alpha 2 antiplasmin (B) Antithrombin III
 (C) Prothrombin (D) Factor VIII
020. Which of the following is a good choice to control tremors and rigidity of parkinsonism?
 (A) Tacrine (B) Donepezil
 (C) Benztropine (D) Amantadine

021. All is true about fondaparinx EXCEPT;
 (A) Should not be used in patient with renal failure
 (B) Interacts with platelets and induce thrombocytopenia
 (C) Given once a day
 (D) Approved for patients undergoing knee surgery
022. Methotrexate toxicity is treated with;
 (A) Pteroylmonoglutamic acid (B) Citrovorum factor
 (C) Hydroxocobalamin (D) Filgrastim
023. Oral anticoagulant therapy is monitored by;
 (A) Activated partial thromboplastin time (B) Bleeding time
 (C) Whole blood clotting time (D) Prothrombin time
024. Ethacrynic acid is not used in therapeutics due to;
 (A) Hepatotoxicity (B) Ototoxicity
 (C) G I intolerance (D) All of the above
025. Long term use of thiazides can cause,
 (A) Hypermagnesemia (B) Hyperchloremia
 (C) Hyperkalemia (D) Hyperlipidemia
026. A patient with essential hypertension is starting diuretic therapy. He also has a history of recurrent calcium oxalate renal stones. Which of the following diuretic would be most appropriate for this patient?
 (A) Furosemide (B) Hydrochlorothiazide
 (C) Acetazolamide (D) Spironolactone
027. Neuroleptanalgesia refers to;
 (A) Droperidol plus fentanyl (B) Droperidol plus haloperidol
 (C) Droperidol plus pethidine (D) Droperidol plus promethazine
028. Diuretic that retain its effectiveness in acute oliguric renal failure;
 (A) Acetazolamide (B) Thiazide
 (C) Mannitol (D) Eplerenone
029. The effect of desmopressin on coagulation factors action is mediated through,
 (A) V1 receptors (B) V2 receptors
 (C) Volume receptors (D) Osmoreceptors
030. All of the following drugs are effective in the treatment of diabetes insipidus EXCEPT,
 (A) Chlorpropamide (B) Benzothiadiazines
 (C) Glibenclamide (D) Carbamazepine
031. Which of the following drug can stimulate release of ADH ?
 (A) Chlorpromazine (B) Phenytoin
 (C) Nicotine (D) Morphine

032. Isoniazid induced neuropathy is more frequent in individuals with;
 (A) Slow acetylators (B) Poor nutrition
 (C) Diabetes mellitus (D) All of the above
033. Which of the following drug may increase serum uric acid levels?
 (A) Pyrazinamide (B) Colchicine
 (C) Codeine (D) Pyrimethamine
034. 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 type neuromuscular block
 (D) Inhibits microtubule polymerization
035. Fluconazole is inhibitor of the following CYP enzymes EXCEPT:
 (A) CYP3A4 (B) CYP2D6
 (C) CYP2C9 (D) CYP2C19
036. A 72 year old man with prostate cancer is treated with flutamide. Which of the following is the mechanism of action of this drug?
 (A) Inhibits 5 α -reductase
 (B) Competitive antagonist of androgen receptors
 (C) Inhibits interstitial cells to decrease testosterone secretion
 (D) Inhibits FSH and LH
037. A 48 year old woman is being treated for chronic lymphatic leukaemia. Over the past few days, she has been complaining of dysuria and hematuria. Which one of the following drugs was she most likely prescribed?
 (A) Vincristine (B) Mitomycin
 (C) Cyclophosphamide (D) Tamoxifen
038. The anti-neoplastic agent specific for the M phase of the cell cycle is,
 (A) Cytarabine (B) Hydroxyurea
 (C) Mechlorethamine (D) Vincristine
039. Which of the following drug causes Fixed drug eruption?
 (A) Heparin (B) Aspirin
 (C) Phenytoin (D) Captopril
040. Which of the following drug significantly blocks “funny” cation channels in pacemaker?
 (A) Cilostazole (B) Pentoxifylline
 (C) Ivabradine (D) Trimetazidine
041. Which of the following can cause ototoxicity and nephrotoxicity?
 (A) Cefotaxime (B) Amikacin
 (C) Aztreonam (D) Ceftriaxone

042. An athlete presents with abdominal pain, raised serum bilirubin (1.8 mg/dl) and altered lipid profile. He gives history of abusing drugs to enhance performance. Which of the following drug is most likely responsible?
- (A) Stanozolol (B) Erythropoietin
(C) Flutamide (D) Ostarine
043. Which of the following is cholesterol ester transfer protein inhibitors?
- (A) Torcetrapib (B) Ezetimibe
(C) Fish oil (D) Gugulipid
044. GLP-1 based agents act by the following mechanisms EXCEPT,
- (A) Stimulate insulin secretion
(B) Decrease intestinal absorption of starch
(C) Delay gastric emptying and decrease food intake
(D) Inhibit glucagon release
045. Which one of the following drug is effective in aspirin induced asthma?
- (A) Montelukast (B) Theophylline
(C) Sodium chromoglycate (D) Omalizumab
046. Which one of the following is the drug of choice for severe asthma with acute exacerbations?
- (A) Albuterol by aerosol
(B) Ipratropium by inhaler
(C) Fluticasone by aerosol + salmeterol aerosol
(D) Zafirlukast orally
047. Which of the following beta blockers has anti oxidant activity?
- (A) Carvedilol (B) Betaxolol
(C) Esmolol (D) Celiprolol
048. Which one of the following cannot be used to treat cytotoxic drug induced vomiting?
- (A) Cyclizine (B) Ondansetron
(C) Dexamethasone (D) Metoclopramide
049. Which one of the following is a prokinetic agent?
- (A) Domperidone (B) Sucralfate
(C) Cyclizine (D) Hyoscine
050. All of the following medications are used to treat inflammatory bowel disease EXCEPT,
- (A) Mesalamine (B) Cyclosporine
(C) Metronidazole (D) Octreotide
051. Which of the following drug can be used to treat invasive travellers' diarrhea?
- (A) Codeine (B) Loperamide
(C) Norfloxacin (D) Lorazepam

052. Which of the following antibacterial drug in high dose can cause bleeding tendency?
 (A) Carbenicillin (B) Mezlocillin
 (C) Becampicilin (D) Piperacillin
053. The formula to calculate half life ($t_{1/2}$) is,
 (A) $Vd \times Cl / 0.693$ (B) $0.693 \times Vd / Cl$
 (C) $0.693 \times Cl / Vd$ (D) $0.693 \times Vd \times Cl$
054. Which of the following can be used for methicillin resistant staphylococci infection?
 (A) Piperacillin (B) Vancomycin
 (C) Meropenem (D) Aztreonam
055. Sulphonamide with minimum risk of crystalluria is,
 (A) Sulphamethoxazole (B) Sulphadiazine
 (C) Sulfisoxazole (D) Sulfadoxine
056. Which of the following drugs is NOT effective against Pseudomonas?
 (A) Uridopenicillin (B) Linezolid
 (C) Aminoglycosides (D) Aztreonam
057. Which of the followingazole derivative is active against mucormycosis?
 (A) Fluconazole (B) Posaconazole
 (C) Voriconazole (D) Itraconazole
058. Drug of choice for cytomegalovirus infection is,
 (A) Acyclovir (B) Penciclovir
 (C) Ganciclovir (D) Cidofovir
059. Which of the following drugs can cause lipodystrophy syndrome?
 (A) Didanosine (B) Stavudine
 (C) Emtricitabine (D) Zalcitabine
060. Aminoglycoside approved for the treatment of kala azar is,
 (A) Amikacin (B) Kanamycin
 (C) Paromomycin (D) Tobramycin
061. Ritonavir is combined with lopinavir in boosted PI regimen because of,
 (A) CYP3A4 inhibition by ritonavir
 (B) Long elimination half life of ritonavir
 (C) Ability to counteract side effects of lopinavir
 (D) Pharmaceutical compatibility
062. According to Drugs And Cosmetic Rule, 2001, Schedule 'X' deals with:
 (A) Generic drugs
 (B) Standards of medical devices
 (C) Special licenses for manufacturing and sale of psychotropic drugs
 (D) Deals with good manufacturing practices

063. Teratogenicity caused by thalidomide is which type of ADR?
 (A) Type B (B) Type F
 (C) Type D (D) Type E
064. Dopamine is preferred in treatment of shock with acute tubular necrosis because of:
 (A) Renal vasodilator effect (B) Increase cardiac output
 (C) Peripheral vasoconstriction (D) Prolonged action
065. Flumazenil can reverse the respiratory depression caused by which of the following?
 (A) Fentanyl (B) Ketamine
 (C) Midazolam (D) Propofol
066. Which of the following adverse effect of levodopa is not minimized even after combining it with carbidopa?
 (A) Involuntary movements (B) Cardiac arrhythmia
 (C) On-off effect (D) Nausea and vomiting
067. Which of the following statement about vigabatrin is TRUE:
 (A) Blocks neuronal reuptake of GABA
 (B) Drug of choice in absence seizures
 (C) Life threatening skin disorders may occur
 (D) Visual disturbances can occur
068. Which of the following is not a side effect of clozapine?
 (A) Seizure (B) Weight loss
 (C) Sialosis (D) Agranulocytosis
069. Methoxsalen refers to;
 (A) Demelanising agent (B) Melanising agent
 (C) Sunscreen preparation (D) Anhidrotic preparation
070. Buprenorphine is:
 (A) Partial agonist at μ receptor (B) Partial agonist at K receptor
 (C) Full agonist at μ receptor (D) Full agonist at K receptor
071. Skeletal muscle relaxant of choice in patient with renal and hepatic failure is:
 (A) Atracurium (B) Vecuronium
 (C) Rocuronium (D) Rapacuronium
072. Digoxin toxicity increased by:
 (A) Hyperkalemia (B) Hypokalemia
 (C) Hypocalcemia (D) Hypermagnesemia
073. Thalidomide is reintroduced in therapeutics for which of the following action?
 (A) Anticancer therapy (B) Immunomodulator
 (C) Immunosuppressant (D) Monoclonal antibody

074. The major clinical use of nimodipine:
- (A) Hypertension (B) Angina pectoris
 (C) Subarachnoid haemorrhage (D) Raynaud's phenomenon
075. HDL is specifically is increased by:
- (A) Niacin (B) Lovastatin
 (C) Gemfibrozil (D) Probucol
076. 'Hand and Foot' syndrome is associated with which anticancer drug?
- (A) Capecitabine (B) Imatinib
 (C) Cyclophosphamide (D) Bleomycin
077. Mechanism of action of paclitaxel is;
- (A) Inhibit ribonucleotide reductase (B) Inhibit function of microtubules
 (C) Block topoisomerase function (D) Inhibition of DNA synthesis
078. Which of the following drugs is antisense oligonucleotide?
- (A) Fomivirsen (B) Pegaptanib
 (C) Odanacatib (D) Imiquimod
079. Which genetic typing is done in patients susceptible for abacavir induced hypersensitivity?
- (A) HLA-B*5701 (B) HLA-A*5701
 (C) HLA-B*6071 (D) HLA-A*6071
080. New drug application to obtain marketing permission of the drug is undertaken in?
- (A) Phase I (B) Phase II
 (C) Phase III (D) Phase IV
081. Which of the following drug will not cause hemolysis in G-6-PD deficiency?
- (A) Pyrimethamine (B) Aspirin
 (C) Dapsone (D) Sulfonamide
082. A diabetes insipidus patient treated with drug X showed reduction in urine volume and increase in urine osmolarity. Which of the following drug has this mechanism?
- (A) Vasopressin (B) Desmopressin
 (C) Tolvaptan (D) Lixivaptan
083. Which of the following medication has the greatest potential for abuse?
- (A) Dextropropoxyphene (B) Meperidine
 (C) Tramadol (D) Codeine
084. A continuous IV infusion of lidocaine is given to a 70 kg patient with cardiac arrhythmias. The pharmacokinetic parameters for lidocaine are as follows: clearance (CL) = 9 mL/min/Kg, volume of distribution (Vd) = 70 L, half life = 2 hrs. How long will it take for drug levels to reach 87.5% of steady state?
- (A) 1.75 hours (B) 3.5 hours
 (C) 5.5 hours (D) 6.0 hours

085. A pharmacology professor is teaching about different drugs on blood vessels. A certain drug produces vasodilation by release of endothelium derived relaxing factor in smooth-muscle cells of arterioles. Which of the following drug has this mechanism?
(A) Bethanechol (B) Isoproterenol
(C) Nifedipine (D) Phetolamine
086. An elderly man presents with complains of ringing in ears, blurred vision, stomach upset. He is taking multiple medications for heart disease and care taker gives history of confused and delirious behavior over past few weeks. Which of the following drug might be responsible for this man's symptoms?
(A) Esmolol (B) Flecanide
(C) Quinidine (D) Amiodarone
087. A 32 years old man with long history of asthma is prescribed zileuton. The mechanism of action of this drug is to;
(A) Antagonize LTD4 receptors (B) Inhibit 5-lipoxygenase
(C) Inhibit phosphodiesterase (D) Inhibit phospholipase A2
088. A 33 years old with a history of asthma is being treated for symptoms of hypertension. Which of the following beta blockers would be an appropriate choice for this patient?
(A) Labetalol (B) Nadolol
(C) Isoproterenol (D) Celiprolol
089. A 64 years old man presents with difficulty urinating and dribbling at end of urination. Which of the following drugs would be most appropriate for this patient?
(A) Finasteride (B) Tamsulosin
(C) Tamoxifen (D) Indoramin
090. A 30 years old man presents with history of tonic clonic seizures complains of double vision, thickened gums. Which of the following medication is most likely responsible for his symptoms?
(A) Carbamazepine (B) Ethosuximide
(C) Phenobarbital (D) Phenytoin
091. Which of the following drug is most effective for Lennox-Gastaut syndrome?
(A) Topiramate (B) Felbamate
(C) Lamotrigine (D) Tiagabine
092. 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) Cyclophosphamide (D) Vinblastine
093. A new antibiotic is being tested in clinical trials found the following pharmacokinetic parameters clearance = 100 mL/min, volume of distribution = 50 L, $t_{1/2}$ = 3 hours. What loading dose should be given to a patient to quickly obtain a plasma concentration of 10 mg/L?
(A) 25 mg (B) 50 mg
(C) 500 mg (D) 1000 mg

094. Two alpha-adrenergic antagonist drug A (150 mg) and Drug B (15 mg) decrease blood pressure by the same amount following IV administration. This information implies that drug A;
- (A) Has a shorter half life (B) Is less efficacious than drug B
 (C) Is less potent than drug B (D) Has lower bioavailability than drug B
095. Which of the following drug is most appropriate for a thalassaemia patient diagnosed with iron overload?
- (A) Trientine (B) Deferasirox
 (C) Degarelix (D) Denileukin
096. Which of the following local anesthetic with long duration of action can be used for a 33 years old woman undergoing minor outpatient procedure?
- (A) Bupivacaine (B) Benzocaine
 (C) Lidocaine (D) Procaine
097. Which of the following is not associated with fetal alcohol syndrome?
- (A) Growth restriction (B) Craniofacial abnormalities
 (C) Macrocephaly (D) Marked CNS dysfunction
098. A 54 year old man presents to the emergency ward with hypotension, dysphagia, choking following insect bite. On examination, face was red and swollen, BP 80/60 mm Hg, pulse rate 138/min. The man has been diagnosed with acute angioneurotic edema of larynx. Which of the following is the most appropriate treatment for this patient?
- (A) Inj. Adrenaline (1:1000) 0.5 ml IV (B) Inj. Adrenaline (1:1000) 0.5 ml IM
 (C) Inj. Adrenaline (1:10000) 0.5 ml IM (D) Inj. Adrenaline (1:1000) 1 ml IM
099. Which of the following vasoconstrictor is most appropriate to prolong the duration of local anesthetic action in cardiac patient?
- (A) Adrenaline (B) Noradrenaline
 (C) Felypressin (D) Fedotozine
100. A young patient has been admitted with severe widespread erythema multiforme with exfoliation and necrosis of buccal mucosa, lips, aspect of the cheeks, palms and soles. Blood test shows alanine aminotransferase and aspartate aminotransferase within normal range. The patient states that he has been taking medications for HIV infection since last six weeks. Which one of the following drug is most likely to cause the appearance of these signs and symptoms?
- (A) Zidovudine (B) Lamivudine
 (C) Nevirapine (D) Lopinavir + ritonavir
101. A 32 year old primigravida with 32 weeks pregnancy develops premature uterine contractions. Per abdominal examination shows 32 weeks size uterus with three uterine contractions in ten minutes. Per vaginal examination shows closed cervix. Which of the following drugs would be most appropriate to relax uterus?
- (A) Progesterone (B) Ritodrine
 (C) Propranolol (D) Clomiphene

102. A 42 year old woman presents to surgical OPD with complains of red and swollen painful left hand. Detail history reveals that she received an intravenous injection for a short procedure before three days. On examination, the injection site was red, swollen and local temperature was raised. Which of the following medications is most likely responsible for her symptoms?
- (A) Midazolam (B) Propofol
 (C) Thiopental sodium (D) Ketamine
103. A 70 year old man complains of suprapubic abdominal pain and unable to pass urine following surgery. On examination, all vital parameters were normal and the patient is being diagnosed having post operative urine retention. Which of the following drug will be most appropriate to relieve acute urine retention?
- (A) Carbachol (B) Bethanechol
 (C) Terazosin (D) Methacholine
104. A physician wants to prescribe an antitussive which is neither addicting nor constipating for a 24 year old woman. Which of the following will be appropriate for the patient?
- (A) Codeine (B) Oxycodone
 (C) Benzonatate (D) Levorphanol
105. Which of the following drug is an example of serendipity?
- (A) Mesalamine (B) Methotrexate
 (C) Meropenem (D) Mesna
106. Which of the following drug is used for acne and psoriasis?
- (A) Tazarotene (B) Bexarotene
 (D) All of the above
107. A patient on long term quetiapine therapy should be monitored for which of the following investigation?
- (A) Cardiac check up (B) Blood count
 (C) Lipid profile (D) Eye check up
108. 'Digitalis induced cardiac arrest' experiment to compare the test and standard drug is an example of;
- (A) Quantal assay (B) Graded response assay
 (C) Matching assay (D) Multiple point assay
109. A patient presents with spasm of muscles of tongue, face, neck and back. History reveals that he is being treated for major psychosis. Which of the following drug will be most appropriate for this patient?
- (A) Levodopa (B) Seligiline
 (C) Promethazine (D) Amantadine
110. Which of the following active principle in marijuana is responsible for drug abuse?
- (A) Tetrahydrocannabinol (B) Mescaline
 (C) Phencyclidine (D) Lysergic acid diethylamide

111. Which of the following drug is used for medical management of uterine fibriod?
 (A) Cetrorelix (B) Goserelin
 (C) Leuprolide (D) Urofollitropin
112. Post-antibiotic effect of aminoglycoside is attributed to;
 (A) Long half life (B) Binding to 60S ribosomal units
 (C) Disruption in 30S ribosomal function (D) Interfere in assembly of polysomes
113. A hypertensive patient reports with serum uric acid 10 mg/dL. Which of the following antihypertensive is not a good choice for this patient?
 (A) Nadolol (B) Captopril
 (C) Thiazide (D) Amlodipine
114. Which of the following medication is associated with extrapyramidal effects?
 (A) Metoclopramide (B) Scopolamine
 (C) Cimetidine (D) Glycopyrrolate
115. Which of the following anti tuberculosis drug is NOT toxic to liver?
 (A) Isoniazide (B) Rifampicin
 (C) Pyrazinamide (D) Streptomycin
116. Which of the following drug is contraindicated in a patient with history of allergy to sulphonamides presenting with acute attack of angle closure glaucoma?
 (A) Glycerol (B) Mannitol
 (C) Acetazolamide (D) Latanoprost
117. Which of the following drug is the drug of choice for treatment of pyoderma due to group A beta haemolytic streptococci?
 (A) Erythromycin (B) Clindamycin
 (C) Benzathine penicillin (D) Cefixime
118. Penicillin is not effective against gram –ve bacilli because;
 (A) Gram –ve bacilli has thick layer of peptidoglycan and teichoic acid
 (B) Penicillin binding proteins are absent in gram – ve bacilli
 (C) Cell walls of gram-ve bacilli are chemically complex
 (D) All of the above
119. Which of the following drug blocks potassium channels across cardiac cell membrane?
 (A) Azimilide (B) Sotalol
 (C) Flecainide (D) Moricizine
120. Which of the following can be used for Torsade de pointes?
 (A) Trientine (B) Zinc
 (C) Magnesium (D) Calcium citrate
121. Which of the following is strongly associated with syndrome of inappropriate secretion of antidiuretic hormone?
 (A) Cyclophosphamide (B) Furosemide
 (C) Tetracycline (D) Conivaptan

122. A young patient consumed an unknown poison. On presentation, there is pinpoint pupils, salivation, and increased respiratory secretions. What is the antidote of choice?
- (A) Neostigmine (B) Nalorphine
 (C) Atropine (D) N acetyl cysteine
123. Pegloticase is used in treatment of:
- (A) Paralytic ileus (B) Rheumatoid arthritis
 (C) Psoriatic arthritis (D) Chronic gout
124. All are used to control raised intra ocular pressure EXCEPT;
- (A) Dexamethasone (B) Methazolamide
 (C) Clonidine (D) Mannitol
125. A rheumatoid arthritis patient presents with cough and dyspnea not responding to antimicrobial. Patient gives history of taking only one drug for last 10 years. Which of the following drug is likely to cause these symptoms?
- (A) Leflunomide (B) Auranofin
 (C) Methotrexate (D) Sulfasalazine
126. All can cause pinpoint pupil EXCEPT;
- (A) Heroin (B) Morphine
 (C) Belladonna (D) Organophosphate
127. Tafenoquine is used for;
- (A) Radical cure of P.vivax (B) Prophylaxis of malaria in pregnancy
 (C) Treatment of severe falciparum malaria (D) Treatment in children < 2 years
128. Prucalopride acts on which of the following receptor?
- (A) 5HT₂ agonist (B) 5HT₄ agonist
 (C) 5HT₂ antagonist (D) 5HT₁ inverse agonist
129. Which of the following is correct for tedizolid?
- (A) High risk of neuropathy (B) Act on gram positive bacteria
 (C) Excreted via kidney (D) Poor oral bioavailability
130. Which of the following is the route of administration of LMW heparin in thromboprophylaxis for a post operative patient?
- (A) IM (B) SC
 (C) IV (D) Inhalational
131. All of the following drug is useful in heart failure EXCEPT:
- (A) Nesiritide (B) Sacubitril
 (C) Trimetazidine (D) Metoprolol
132. Pirfenidone is used for which of the following condition?
- (A) Pulmonary fibrosis (B) Liver cirrhosis
 (C) Pulmonary hypertension (D) Lung fungal infection

133. Which of the following drug has been approved for neurogenic orthostatic hypotension caused by autonomic failure?
 (A) Riociguat (B) Droxidopa
 (C) Resmethrin (D) Dronedarone
134. Which of the following is Schedule II drug?
 (A) Thalidomide (B) Ketamine
 (C) Fentanyl (D) Phenobarbital
135. What is the role of glycopyrrolate in preoperative phase?
 (A) Reduce secretions (B) Anxiolytic action
 (C) Used as an induction agent (D) Potentiates action of GA
136. Tapentadol acts on μ receptor as agonist. Additionally, it also;
 (A) Inhibits the uptake of noradrenaline (B) Inhibits the uptake of serotonin
 (C) Antihistaminic (D) Anticholinergic
137. Which of the following is the drug of choice for trichomonas vaginitis?
 (A) Metronidazole (B) Erythromycin
 (C) Clindamycin (D) Rovamycin
138. Which of the following is the most appropriate drug to kill cyst forming trophozoites?
 (A) Nitazoxanide (B) Chloroquine
 (C) Iodoquinol (D) Emetine
139. Which of the following is effective against Leishmania donovani infection?
 (A) Metronidazole (B) Melarsoprol
 (C) Miltefosine (D) Nifurtimox
140. GnRH agonist can be used in all of the following EXCEPT;
 (A) Endometriosis (B) Male infertility
 (C) Precocious puberty (D) CA prostate
141. Which of the following can be used in paucibacillary leprosy patient intolerant to dapsone?
 (A) Rifampicin (B) Ofloxacin
 (C) Clofazimine (D) Clarithromycin
142. Which of the following drug will be preferred for an osteoporotic patient diagnosed with hypertension?
 (A) Thiazide (B) Beta blocker
 (C) ACE inhibitor (D) Calcium channel blocker
143. Which of the following is available as drug eluting stent?
 (A) Daunorubicin (B) Paclitaxel
 (C) Doxorubicin (D) Vinblastin
144. All of the following can be used in myoclonic seizures EXCEPT;
 (A) Sodium valproate (B) Lamotrigine
 (C) Topiramate (D) Ethosuximide

145. Which of the following can be used for chronic neuropathic post herpes zoster pain?
 (A) Duloxetine (B) Sodium valproate
 (C) Pethidine (D) Codeine
146. Which of the following antihypertensive should be avoided in pregnancy?
 (A) ACE inhibitors (B) ARB
 (C) Beta blockers (D) All of the above
147. Minimum number of members to complete a quorum of Institutional Ethics Committee as per New Drugs and Clinical Trial Rules, 2019 is;
 (A) 5 (B) 7
 (C) 9 (D) 12
148. Obligation of the investigator and study team members to safeguard the participant information refers to;
 (A) Privacy (B) Confidentiality
 (C) Autonomy (D) Justice
149. Which of the following is always deemed to be 'new drug' irrespective of the period since it was first approved by central licensing authority?
 (A) Fixed dose combination (B) Monoclonal antibody
 (C) Orphan drug (D) Phytopharmaceutical drug
150. The definition of 'orphan drug' as per central licensing authority is;
 (A) Drug intended to treat a condition affecting less than 2 lakh persons in India
 (B) Drug intended to treat a condition affecting less than 5 lakh persons in India
 (C) Drug intended to treat a condition affecting less than 7 lakh persons in India
 (D) Drug intended to treat a condition affecting less than 10 lakh persons in India
151. A patient is receiving long term glucocorticoid therapy. She should consequently receive supplemental therapy with which of the following?
 (A) Calcium (B) Vitamin B12
 (C) Iron (D) Folic acid
152. Which of the following is most appropriate for gastroesophageal reflux disease treatment?
 (A) Proton pump inhibitors (B) Prokinetic drugs
 (C) Antacid (D) Sodium alginate
153. Which of the following is most appropriate for vertigo treatment?
 (A) Cetrizine (B) Mizolastine
 (C) Cinnarizine (D) Rupatadine
154. Which of the following is an inhibitor of RNA synthesis?
 (A) Rifampicin (B) Ciprofloxacin
 (C) Novobiocin (D) 5 fluorouracil
155. Omalizumab is used in which of the following condition?
 (A) Severe persistent bronchial asthma (B) Crohn disease
 (C) Psoriasis (D) Multiple myeloma

156. Which of the following drug is most appropriate for a hypoxic patient in status asthmaticus?
 (A) Adrenaline (B) Aminophylline
 (C) Ipratropium bromide (D) Monteleukast
157. Which of the following drug is tyrosine kinase inhibitor?
 (A) Trastuzumab (B) Mitotane
 (C) Imatinib (D) Hydroxyurea
158. Which of the following is an inhibitor of DNA replication?
 (A) Actinomycin (B) Rifampicin
 (C) Mitomycin (D) 6 mercaptopurine
159. High toxicity profile of stavudine is attributed to;
 (A) Inhibition of reverse transcriptase (B) Inhibition of mitochondrial DNA
 (C) Inhibition of DNA polymerase (D) All of the above
160. Which of the following drug should not be prescribed in a patient of chronic asthma stabilized on theophylline?
 (A) Ofloxacin (B) Ampicillin
 (C) Erythromycin (D) Cotrimoxazole
161. Which of the following drug can cause pancreatitis?
 (A) Saxagliptin (B) Dapagliflozin
 (C) Metformin (D) Pioglitazone
162. Which of the following drug can cause hypoglycaemia unawareness?
 (A) Pentamidine (B) Ranolazine
 (C) Nadolol (D) Thiazides
163. Which of the following antidiabetic can cause body weight loss?
 (A) Glipizide (B) Pramlintide
 (C) Repaglinide (D) Pioglitazone
164. Thyroxine substitution therapy should be monitored by;
 (A) T₃ (B) T₄
 (C) Total T₄ (D) TSH
165. Which of the following drug is contraindicated in hypothyroid patients?
 (A) Lithium (B) Trientine
 (C) Dithiocarb (D) Dapagliflozin
166. Which of the following statements is True?
 (A) Ethical review of research during humanitarian emergencies does not require review by full committee.
 (B) Germ line therapy can be conducted for alleviation of life threatening conditions
 (C) Informed consent can be waived for research on routinely collected data
 (D) Fresh consent should be obtained for secondary or extended uses of stored samples

167. Biobanking refers to;
 (A) CTRI (B) Cancer Registry of India
 (C) Autopsy specimens (D) Demographic data
168. Which of the following is a competitive blockade of ACh at motor end plate?
 (A) Botulinum toxin (B) Lobeline
 (C) Varenicline (D) Vecuronium
169. Which of the following drug is contraindicated in patients with ischemic heart disease?
 (A) Zolmitriptan (B) Ketanserin
 (C) Clozapine (D) Alosetron
170. Which of the following drug have been useful for prophylaxis of migraine?
 (A) Valproic acid (B) Topiramate
 (C) Amitriptyline (D) All of the above
171. Dexmedetomidine is used as;
 (A) Inducing agent (B) Preanaesthetic medication
 (C) Analgesic (D) Muscle relaxant
172. Which of the following drug should be avoided in breast feeding mother?
 (A) Erythromycin (B) Metronidazole
 (C) Chloroquine (D) Captopril
173. Which of the following scientist invented vagusstoff and established as acetylcholine?
 (A) Langley (B) Dixon
 (C) Otto loewi (D) Von Euler
174. Which of the following scientist identified digitalis as active ingredient of Foxglove?
 (A) Otto loewi (B) Henry Dale
 (C) William Withering (D) James Black
175. Tibolone use refers to,
 (A) Vasomotor symptoms in menopausal women
 (B) Diabetes mellitus in menopausal women
 (C) Hypertension in menopausal women
 (D) Varicose veins in menopausal women
176. Relatively higher dose of theophylline is required to attain therapeutic plasma concentration in:
 (A) Cigarette smokers (B) Congestive heart failure patients
 (C) Those receiving erythromycin (D) Those receiving cimetidine
177. All are G protein coupled serotonin receptors EXCEPT;
 (A) 5-HT₁ (B) 5-HT₂
 (C) 5-HT₃ (D) 5-HT₄
178. Which of the following can be used for patient controlled analgesia for post operative pain?
 (A) Hydromorphone (B) Morphine
 (C) Fentanyl (D) All of the above
179. Local anesthetic action of Lignocaine is attributed to block of;
 (A) Intracellular end of Na⁺ channel (B) Intracellular end of K⁺ channel
 (C) Extracellular end of Na⁺ channel (D) Inward rectifying K⁺ channel

180. Which is the most appropriate drug for hypotension (60/40 mm Hg) following spinal anaesthesia?
 (A) IV normal saline (B) Methoxamine
 (C) Adrenaline (D) IV 10% Dextrose
181. Which one of the following drug has potential to prolong QTc interval?
 (A) Dronedaronone (B) Bedaquiline
 (C) Delamanid (D) All of the above
182. A rheumatoid arthritis patient on hydrxychloroquine should be monitored for which of the following test?
 (A) Serum uric acid (B) ECG
 (C) Ophthalmic (D) Liver function tests
183. Which of the following is highly effective for medical termination of pregnancy?
 (A) Tamoxifen plus misoprostol (B) Ethacridine
 (C) Mifepristone plus Misoprostol (D) Methotexate plus Misoprostol
184. Which of the following can be used for Wilson's disease?
 (A) Succimer (B) Dimercaprol
 (C) Trientine (D) Deferiprone
185. Histamine induced triple response is mediated through;
 (A) H₁ receptor and Ca⁺⁺ dependent activation of eNOS
 (B) H₂ receptor and Ca⁺⁺ dependent activation of eNOS
 (C) H₁ receptor and increase Cyclic AMP
 (D) H₂ receptor and increase Cyclic AMP
186. Which of the following is correct for principles of clinical research?
 (A) Autonomy to risk/benefit assessments
 (B) Justice to Informed Consent
 (C) Nonmaleficence to risk/benefit assessments
 (D) Beneficence to selection of subjects
187. Gossypol refers to;
 (A) Chelating agent (B) Male contraceptive
 (C) Female contraceptive (D) Antioxidant
188. Drug X (100mg) follows first order kinetics and its t_{1/2} is 2 hrs. What will be the duration of action if the dose of the drug X is doubled?
 (A) 4 hrs (B) 6 hrs
 (C) 8 hrs (D) 10 hrs
189. Which of the following is true about zero order kinetic of drug?
 (A) The rate of elimination is proportional to plasma concentration
 (B) The log plasma concentration curve exhibit two slopes
 (C) Increasing the dose does not result in a proportionate rise in elimination
 (D) A constant fraction is eliminated at a constant interval of time

190. Which of the following is centrally acting anorexiatic drug?
(A) Fidaxomicin (B) Exemestane
(C) Fenfluramine (D) Everolimus
191. Phytonadione is used to treat overdose of;
(A) Heparin (B) Warfarin
(C) Dipyridamole (D) Streptokinase
192. Dioctyl sodium sulfosuccinate is;
(A) Osmotic laxative (B) Bulk laxative
(C) Emollient laxative (D) Stimulant laxative
193. Which of the following is likely to induce remission in Crohn's disease resistant to conventional therapy?
(A) Sulfasalazine (B) Adalimumab
(C) Diphenoxylate (D) All of the above
194. Ulcerative colitis patient receiving azathioprine should be periodically monitored for which of the following test?
(A) Renal function tests (B) Liver function tests
(C) ECG (D) Abdominal USG
195. Which of the following has narrow therapeutic index?
(A) Dexamethasone (B) Benzyl penicillin
(C) Digoxin (D) Paracetamol
196. Dibucaine number refers to;
(A) Inhibition of plasma cholinesterase
(B) Inhibition of plasma esterase
(C) Inhibition of uroporphyrinogen synthetase
(D) Acetylator status
197. Albendazole may be used for treatment of all of the following EXCEPT;
(A) Enterobiasis (B) Ascariasis
(C) Hydatid disease (D) Schistosomiasis
198. Which of the following steroids can be administered by inhalation route?
(A) Fluticasone (B) Betamethasone
(C) Prednisolone (D) Hydrocortisone
199. Which of the following is the drug of choice for supraventricular tachycardia?
(A) Quinidine (B) Ibutilide
(C) Verapamil (D) Dronedarone
200. What should be the optimum therapeutic plasma lithium levels?
(A) 0.5 to 1.5 mEq/L (B) 2 to 3.5 mEq/L
(C) 4 to 5.5 mEq/L (D) 6 to 7.5 mEq/L