

BBB

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 through **ONLINE OBJECTION SUBMISSION SYSTEM** only. Physical submission of suggestions will not be considered.
- (2) Question wise suggestion to be submitted in the prescribed format (proforma) published on the website / online objection submission system.
- (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 / online objection submission system. 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 should be made on separate sheet. Objection for more than one question in single sheet shall not be considered.

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

- (1) ઉમેદવારે વાંધા-સૂચનો ફક્ત ઓનલાઇન ઓબ્જેક્શન સબમીશન સીસ્ટમ દ્વારા જ સબમીટ કરવાના રહેશે. રૂબરૂ અથવા ટપાલ દ્વારા આયોગની કચેરીએ મોકલવા આવેલ વાંધા-સૂચનો ધ્યાને લેવામા આવશે નહીં જેની ખાસ નોંધ લેવી.
- (2) ઉમેદવારે વાંધા-સૂચનો રજૂ કરવા વેબસાઇટ / ઓનલાઇન ઓબ્જેક્શન સબમીશન સીસ્ટમ પર પ્રસિધ્ધ થયેલ નિયત નમૂનાનો જ ઉપયોગ કરવો.
- (3) ઉમેદવારે પોતાને પરીક્ષામાં મળેલ પ્રશ્નપુસ્તિકામાં છપાયેલ પ્રશ્નક્રમાંક મુજબ વાંધા-સૂચનો રજૂ કરતા તમામ વાંધા-સૂચનો વેબસાઇટ પર પ્રસિધ્ધ થયેલ પ્રોવિઝનલ આન્સર કી (માસ્ટર પ્રશ્નપત્ર)ના પ્રશ્ન ક્રમાંક મુજબ અને તે સંદર્ભમાં રજૂ કરવા.
- (4) માસ્ટર પ્રશ્નપત્રમાં નિર્દિષ્ટ પ્રશ્ન અને વિકલ્પ સિવાયના વાંધા-સૂચનો ધ્યાને લેવામાં આવશે નહીં.
- (5) ઉમેદવારે 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-સૂચનો ધ્યાનમા લેવાશે નહીં.
- (6) એક પ્રશ્ન માટે એક જ વાંધા-સૂચન પત્રક વાપરવું. એક જ વાંધા-સૂચનો પત્રકમાં એકથી વધારે પ્રશ્નોની રજૂઆત કરેલ હશે તો તે અંગેના વાંધા-સૂચનો ધ્યાને લેવાશે નહીં.

Website link for online objection submission system : www.safevaults.in/login

001. Combined involvement of cranial nerve X and XI is seen in
 (A) Collet Sicard syndrome (B) Jackson syndrome
 (C) Schmidt syndrome (D) Garcin syndrome
002. Identify the circumferential artery of midbrain
 (A) Thalamoperforating arteries (B) superior cerebellar arteries
 (C) peduncular arteries (D) internal auditory artery
003. All of the following nuclei are present in medulla except
 (A) Hypoglossal nucleus (B) nucleus ambiguus
 (C) inferior salivatory nucleus (D) inferior olivary nucleus
004. Hypotonia occurs in lesions affecting which parts of cerebellum
 (A) paleocerebellum (B) Archicerebellum
 (C) Neocerebellum (D) all of above
005. Which of following is major output zone of basal ganglia
 (A) caudate nucleus (B) putamen
 (C) medial globus pallidus (D) ventral striatum
006. Artery supplying fundus of stomach
 (A) right gastric artery (B) splenic artery
 (C) short gastric arteries (D) Gastroduodenal artery
007. Left gonadal vein drains into
 (A) Internal iliac vein (B) inferior vena cava
 (C) Left renal vein (D) vena azygos
008. Meckel's diverticulum is a remnant of
 (A) Mullerian duct (B) Wolffian duct
 (C) Mesonephric duct (D) Vitello intestinal duct
009. Posterior relation of foramen of Winslow
 (A) liver (B) duodenum
 (C) inferior vena cava (D) pancreas
010. Ligamentum teres is a remnant of
 (A) lesser omentum (B) ductus venosus
 (C) left umbilical vein (D) left umbilical artery
011. All of the following are tributaries of coronary sinus except
 (A) Great cardiac vein (B) small cardiac vein
 (C) middle cardiac vein (D) anterior cardiac vein
012. Nerve supply of adductor pollicis
 (A) median nerve (B) superficial branch of ulnar nerve
 (C) deep branch of ulnar nerve (D) radial nerve
013. Which of bone is first one to start ossification
 (A) ulna (B) scapula
 (C) clavicle (D) humerus

014. Policeman's tip deformity or porters tip occurs due to
 (A) Klumpke's paralysis (B) paralysis of median nerve
 (C) paralysis of radial nerve (D) Erb's paralysis
015. Which of the following is not a branch of posterior cord of brachial plexus
 (A) upper subscapular (B) lower subscapular
 (C) suprascapular (D) axillary
016. What are the Vitamin K dependent clotting factors?
 (A) II, V, X, XII (B) II, XIII, VIII, V
 (C) II, VII, IX, X (D) II, VII, VIII, XIII
017. All are true regarding Vitamin D, except
 (A) Sunlight is important for synthesis (B) 1-hydroxylation in liver
 (C) Active form is calcitriol (D) RDA for children is 400IU
018. Glucose transporter involved in insulin stimulated glucose transport into skeletal, cardiac muscle and adipose tissue is GLUT-
 (A) 1 (B) 2
 (C) 3 (D) 4
019. According to Erlanger and gasser classification, the type of nerve fibers involved in carrying proprioception
 (A) A-alpha (B) A-gamma
 (C) C (D) B
020. During non-REM sleep which of the following stages shows sleep spindles in EEG
 (A) Stage 1 (B) Stage 2
 (C) Stage 3 (D) Stage 4
021. Ideal substance for measuring GFR should have the following characteristics except
 (A) secreted by tubules (B) not to be toxic
 (C) not to be metabolized in the body (D) not to be protein bound
022. Angiotensin II causes all the following effects except:
 (A) Stimulation of thirst (B) Aldosterone secretion
 (C) Increased ADH secretion (D) Vasodilation
023. Thick Ascending Limb of loop of Henle has which channels-
 (A) Na-Cl Cotransporter (B) Na-2Cl-K cotransporter
 (C) E Nac Channel (D) Na-Amino acid cotransporter
024. Adrenal insufficiency is not associated with
 (A) Hyponatremia (B) Hyperkalemia
 (C) Hypoglycemia (D) Metabolic alkalosis
025. Fetal Hemoglobin contains-
 (A) $\alpha 2\gamma 2$ (B) $\alpha 2\beta 2$
 (C) $\alpha 2\delta 2$ (D) None of the above

026. Anaplasia refers to the
 (A) Lack of differentiation
 (B) Variation in cell size and shape
 (C) Replacement of one type of cell by the other
 (D) Disordered arrangement of tumour cells
027. The type of necrosis seen in vessel wall of a patient with polyarteritis nodosa is
 (A) Fibrinoid necrosis
 (B) Gangrenous necrosis
 (C) Fat necrosis
 (D) Caseous necrosis
028. Alpha granules have all except
 (A) Fibrinogen
 (B) vWF
 (C) Factor V
 (D) Serotonin
029. What is the aberration when a break occurs at both ends of a chromosome with the fusion of damaged ends?
 (A) Translocation
 (B) Ring chromosome
 (C) Inversion
 (D) Isochromosome formation
030. Glioma shows overexpression of
 (A) PDGF beta
 (B) ERB-1
 (C) RET
 (D) KIT
031. When amyloid is stained with Congo red and visualized under the polarizing microscope, which colour does it acquire?
 (A) Pink
 (B) Red
 (C) Apple green birefringence
 (D) Dark brown
032. Which of the following is not increased in intravascular haemolysis?
 (A) LDH
 (B) Free haemoglobin
 (C) Methaemoglobin
 (D) Haptoglobin
033. Weber-osler-Rendu syndrome is a disorder of
 (A) Collagen
 (B) Platelets
 (C) Clotting factors
 (D) Blood vessels
034. A person with radiologically confirmed reflux nephropathy develops nephritic range proteinuria. Which of the following would be the most likely histological finding in the patient?
 (A) Membranous glomerulopathy
 (B) Focal segmental glomerulosclerosis
 (C) Nodular glomerulosclerosis
 (D) Proliferative glomerulonephritis with crescents
035. Which of the following reflect the earliest morphologic markers of neuronal cell death?
 (A) White neurons
 (B) Red neurons
 (C) Gliosis
 (D) Axonal reaction

036. Rose waaler test is a?
 (A) co agglutination test (B) latex agglutination test
 (C) slide agglutination test (D) haemagglutinin test
037. The vaccine for Japanese encephalitis is?
 (A) Live (mutant)vaccine (B) Killed vaccine
 (C) Live (attenuated) vaccine (D) Live (recombinant) vaccine
038. Which of the following is a human RNA virus?
 (A) Parvovirus (B) Picornavirus
 (C) Papovavirus (D) Pox virus
039. Which of the following is an intermediate level disinfectant?
 (A) Glutaraldehyde (B) Quaternary ammonium compound
 (C) Hydrogen peroxide (D) Iodophors
040. Brazilian purpuric fever caused by
 (A) Haemophilus hemolyticus (B) Haemophilus aphrophilus
 (C) Haemophilus aegyptius (D) Haemophilus parainfluenza
041. Aflatoxin produced by which fungus?
 (A) aspergillus flavus (B) aspergillus niger
 (C) penicillium marneffeii (D) candida albicans
042. Which of the following is an enrichment medium?
 (A) Alkaline peptone water (B) Loeffler serum slope
 (C) Deoxycholate citrate agar (D) MacConkeys agar
043. Which of the following parasites can cause biliary obstruction?
 (A) Chlonorchis sinensis (B) Enterobius
 (C) Strongyloides stercoralis (D) Ankylostoma duodenale
044. Draughtsman appearance is seen with colonies of
 (A) Pneumococcus (B) Streptococcus
 (C) Staphylococcus (D) None of the above
045. Erythema chronicum migrans is caused by?
 (A) Borrelia japonica (B) Borrelia Burgdorferi
 (C) Borrelia andersonni (D) Borrelia recurrentis
046. Sacubitril is a new drug approved for chronic heart failure. The mechanism of action of sacubitril is
 (A) Angiotensin 2 inhibitor (B) ACE inhibitor
 (C) Renin inhibitor (D) Neutral endopeptidase inhibitor
047. Which of the following antihypertensives are not used in pregnancy?
 (A) Hydralazine (B) Alpha methyl dopa
 (C) Propranolol (D) Labetalol

048. Isoniazid induces efflux pumps that results in cross resistance with
(A) Ethionamide (B) Ethambutol
(C) Rifampicin (D) Pyrazinamide
049. Which one of the following drug acts by inhibiting potassium channel?
(A) Repaglinide (B) Metformin
(C) Exenatide (D) Sitagliptin
050. Which one of the following drugs inhibits neutrophil recruitment?
(A) Montelukast (B) Sodium cromolyn
(C) Colchicine (D) Febuxostat
051. Sargramostim is a recombinantly engineered analogue of which of the following
(A) G-CSF (B) GM-CSF
(C) Erythropoietin (D) IL-11
052. Which monoclonal antibody is approved for use in HIV-1
(A) Ixekizumab (B) Ibalizumab
(C) Idarucizumab (D) Ipilimumab
053. Which of the following statements is false regarding triptans?
(A) They are 5HT 1b/1d agonists
(B) No action on adrenergic, cholinergic or dopaminergic receptors
(C) Sumatriptan is safe in pregnancy
(D) They are used for prophylaxis of migraine
054. In patients with rheumatoid arthritis which of the following can be used for treatment
(A) Sulfacetamide (B) Sulfasalazine
(C) Silver sulfadiazine (D) Mafenide
055. Rate limiting step in acetyl choline synthesis in nerve terminals is inhibited by
(A) Choline (B) Hemicholinium
(C) Acetyl choline esterase (D) Botulinum toxin
056. The most common organism responsible for community acquired bacterial meningitis is
(A) Neisseria meningitidis (B) Listeria monocytogenes
(C) Streptococcus pneumoniae (D) Hemophilus influenzae
057. The mode of inheritance of Wilson's disease
(A) Autosomal dominant (B) Autosomal recessive
(C) X-linked dominant (D) X-linked recessive
058. The enzyme deficient in porphyra cutaneous tarda
(A) ALA dehydratase (B) HMB synthase
(C) Ferrochelatase (D) Urodecarboxylase
059. The most common adult glycogen storage disorder is
(A) Type-v (B) Type-ix
(C) Type-i (D) Type-ii

060. The causative prion protein in Alzheimer's disease is
 (A) Alpha synuclein (B) Abeta-tau
 (C) Huntington (D) PrPsc
061. The common cause of seizure in adolescents and adults
 (A) Febrile seizure (B) Cerebrovascular accidents
 (C) Head trauma (D) Genetically based epilepsy syndrome
062. The dose of r-tPA in thrombolysis of acute stroke
 (A) 0.9 mg/kg iv (B) 0.4 mg/kg iv
 (C) 0.7 mg/kg iv (D) 0.2 mg/kg iv
063. The most common site hypertensive ICH
 (A) Pons (B) Cerebellum
 (C) Thalamus (D) Putamen
064. The most common cause of primary headache
 (A) Tension headache (B) Migraine
 (C) Cluster headache (D) Idiopathic
065. The most common symptom of multiple sclerosis
 (A) Optic neuritis (B) Weakness
 (C) Sensory loss (D) Ataxia
066. MEN-1 syndrome includes all except
 (A) Hyperparathyroidism (B) Foregut carcinoids
 (C) Schwannoma (D) Adrenal adenomas
067. Drugs causing hyperprolactinemia are all except
 (A) Ranitidine (B) Fluoxetine
 (C) Alpha methyl dopa (D) Ondansetron
068. Which enzyme is the source of reverse T3 ?
 (A) type II deiodinase (B) type III deiodinase
 (C) type I deiodinase (D) IGF 1
069. The daily replacement dose of thyroxine in hypothyroidism
 (A) 2 µg/kg (B) 1.6 µg/kg
 (C) 1.0 µg/kg (D) 2.5 µg/kg
070. All of the following conditions are causes of high radioactive iodine uptake thyrotoxicosis except
 (A) Grave's disease (B) hcg producing tumor
 (C) Hashimoto's thyroiditis (D) Toxic MNG
071. What is type 3c diabetes?
 (A) Autoimmune GAD positive diabetes (B) LADA
 (C) Pancreatogenic diabetes (D) Gestational diabetes

072. All are long-acting insulin except
 (A) Glargine (B) Detemir
 (C) Degludec (D) Glulisine
073. All are true about SGLT 2 inhibitors except
 (A) contraindicated in pancreatogenic forms of DM
 (B) causes mild rise in BP
 (C) euglycemic DKA is common
 (D) reduce cardiovascular morbidity in patients with established CVD
074. Choose the correct statement
 1. Patients with DKA have high anion gap acidosis
 2. Patients with HHSS have normal bicarbonate levels
 3. Patients with DKA have serum osmolality with 320 mosmol/kg
 4. In HHSS arterial pH is < 7.3
 (A) 1 and 2 (B) 2 and 3
 (C) 1 and 4 (D) 1 and 3
075. Causes of hypopituitarism include all except
 (A) Laurence moon Biedl syndrome (B) Hemochromatosis
 (C) Pituitary metastasis (D) Mc Cune Albright syndrome
076. All of the following can be used in the treatment of hypocalcemia except
 (A) Calcitriol (B) thiazides
 (C) Denosumab (D) Recombinant PTH
077. In familial hypercholesterolemia, if LDL-C is not reduced to acceptable levels with statins and ezetimibe, the second line of treatment is
 (A) Fibrates (B) PCK9 inhibitors
 (C) Omega 3 fatty acids (D) Lomitapride
078. What is the drug of choice in Wilson's disease with predominant neurological symptom
 (A) Penicillamine (B) zinc
 (C) Trientine (D) Tetra thiomolybdate
079. All are the features of acute intermittent porphyria except
 (A) Abdominal pain (B) Axonal neuropathy
 (C) Sympathetic overactivity (D) Cutaneous blisters
080. A sixty-three old man presented with triad of angina, syncope and congestive heart failure. Which of the following valvular heart disease can be suspected?
 (A) Tricuspid regurgitation (B) Mitral stenosis
 (C) Aortic stenosis (D) Aortic regurgitation

081. A patient had an inferior wall myocardial infarction, was in shock. The reason for the shock is
- (A) Mitral regurgitation
 - (B) Right ventricular infarction
 - (C) Infarction causing septal defect
 - (D) Decreased stroke volume from left ventricle
082. A new systolic murmur after acute myocardial infarction may be due to all of the following except
- (A) Papillary muscle dysfunction
 - (B) Complete heart block
 - (C) Rupture of interventricular septum
 - (D) Ischemic cardiomyopathy
083. A sixty-year-old man with mitral regurgitation asymptomatic with the left ventricular ejection fraction of 45% and end systolic chamber index of 3 cm². The most appropriate treatment is
- (A) No treatment
 - (B) Digoxin and diuretics
 - (C) ACE inhibitors
 - (D) Mitral valve repair or replacement
084. ST elevation in ECG seen in all of the following except
- (A) Myocardial infarction
 - (B) Constrictive pericarditis
 - (C) Ventricular aneurysm
 - (D) Coronary artery spasm
085. QT prolongation is seen in all except
- (A) Hypocalcemia
 - (B) Hypomagnesemia
 - (C) Quinidine therapy
 - (D) Digitalis toxicity
086. A 40 yr. old male patient presented to ED with chest pain for two hours with previous history of PCI three months back. ECG shows ST depression, cardiac troponin elevation. He was treated with aspirin, clopidogrel, LWMH. The next step is
- (A) Early revascularisation with PCI
 - (B) Immediate revascularisation with thrombolytics
 - (C) Conservative management
 - (D) Continue conservative management and plan for revascularisation procedure after discharge
087. A 33 yr. old male with complaints of recurrent chest pain, with history of elder brother died suddenly at the age of 40 yrs. On taking NTG, intensity of chest pain increases
- (A) Dissection of aorta
 - (B) Subacute bacterial endocarditis involving aortic valve
 - (C) Hypertrophic obstructive cardiomyopathy
 - (D) Degenerative mitral degeneration
088. A patient presented with engorged neck veins, BP-80/50 mmHg, PR-100/min, following blunt trauma chest. The diagnosis is
- (A) Pneumothorax
 - (B) Haemothorax
 - (C) Cardiac tamponade
 - (D) Right ventricular failure

089. A 50 yr old male alcoholic presented with four hours of acute breathlessness, chest pain, aggravated by eating, radiating to back and interscapular region. Past history of known hypertension, now BP is 80/50 mmHg, PR-130/min, JVP- normal. All peripheral pulsations equally felt. Chest x ray shows left pleural effusion. The most probable diagnosis is
- (A) Acute myocardial infarction (B) Rupture of oesophagus
(C) Acute pulmonary embolism (D) Acute aortic dissection
090. Which of the following is an autoinflammatory disorder?
- (A) SLE (B) Relapsing polychondritis
(C) Relapsing fever (D) Familial Mediterranean fever
091. The following causes drug induced lupus except
- (A) Zovastatin (B) simvastatin
(C) Atorvastatin (D) Lithium
092. Tofacitinb is used for the treatment of
- (A) SLE (B) APS
(C) Sjogren's syndrome (D) RA
093. CASPAR criteria is used for
- (A) SA (B) Reactive arthritis
(C) Osteoarthritis (D) Psoriatic arthritis
094. SAPHO syndrome consist of all except
- (A) Hyperostosis (B) Osteitis
(C) Synovitis (D) Hypertrichosis
095. HSP is a
- (A) Ig G vasculitis (B) Ig A vasculitis
(C) Ig M vasculitis (D) Ig E vasculitis
096. The most common organ affected in sarcoidosis is
- (A) Heart (B) Lung
(C) Kidney (D) Liver
097. Behcet's disease is associated with
- (A) HLA B51 (B) HLAB47
(C) HLAB27 (D) HLA 57
098. The most common pulmonary manifestations of rheumatoid arthritis
- (A) pleuritis (B) pleural effusion
(C) ILD (D) Pulmonary hypertension
099. All of the following are causes of palpable purpura, except
- (A) Polyarteritis nodosa (B) Acute meningococemia
(C) Rocky mountain spotted fever (D) Steroid purpura
100. All of the following are features of Lichen planus except
- (A) Wickham's striae (B) Herald's patch
(C) Shiny flat topped violaceous papules (D) Koebner's phenomenon

101. Which of the following is not a feature of pemphigus vulgaris?
(A) Presence of Ig G antibodies against Dsg3
(B) Acantholytic blisters in suprabasal layer of epidermis
 (C) Acantholytic blisters in superficial layer of epidermis
(D) Nikolsky's sign positive
102. Which of the following is not an external marker of tuberous sclerosis?
(A) Ash leaf macule (B) Erythema nodosum
 (C) Adenoma sebaceum (D) Subungual fibroma
103. All of the following drugs are used in treatment of pityriasis versicolor except
 (A) Griesofulvin (B) Ketaconazole
(C) Selenium sulphide (D) Clotrimazole
104. Which of the following nutrient is not present in egg?
(A) Essential amino acids (B) Calcium
 (C) Vitamin C (D) Fat soluble vitamins
105. All of the following are the features of Iron deficiency anemia except
(A) Low serum Iron (B) Decreased red cell distribution width
(C) Increased total iron binding capacity (D) Low serum ferritin
106. Richest source of vitamin C
(A) Lime (B) Orange
 (C) Amla (D) Guava
107. All of the following are features of iodine deficiency except
(A) Goitre (B) Strabismus
 (C) Mottling of dental enamel (D) Subnormal intelligence
108. Features of Niacin deficiency includes
(A) Diarrhoea (B) Dermatitis
(C) Dementia (D) All of the above
109. Severe Falciparum malaria can be marked by all of the following features, except
 (A) Hyperglycaemia
(B) Acidosis
(C) Disseminated intravascular coagulation
(D) Convulsions
110. Drug used to treat asymptomatic carrier of Entamoeba Histolytica
(A) Metronidazole (B) Ivermectin
 (C) Iodoquinol (D) Tinidazole
111. Weil's syndrome encompasses classic triad of
(A) Thrombocytopenia, DIC, Acute kidney injury
(B) Fulminant Hepatitis, Hemorrhage, ARDS
(C) Shock, Acute kidney injury, Fulminant Hepatitis
 (D) Hemorrhage, Jaundice, Acute kidney injury

112. Generalised non tender lymphadenopathy is classically seen in
 (A) Primary syphilis (B) Secondary syphilis
 (C) Tertiary syphilis (D) Latent syphilis
113. Mycobacterium avium complex infection is best treated with combination of
 (A) Rifamycin, Isoniazid, Doxycycline (B) Macrolide, Rifamycin, Ethambutol
 (C) Macrolide, Pyrazinamide, Rifamycin (D) Doxycycline, Macrolide, Ethambutol
114. Test used to assess treatment success in Helicobacter pylori infection
 (A) Urea breath test (B) Stool antigen test
 (C) Both (A) and (B) (D) None of the above
115. Antibiotic most effective in severe pseudomembranous colitis caused by Clostridium difficile
 (A) Oral Vancomycin (B) Intravenous Vancomycin
 (C) Oral Metronidazole (D) Intravenous Metronidazole
116. Bacterial food poisoning occurring within 6 hours of consuming fried rice is most commonly caused by
 (A) Staphylococcus aureus (B) Bacillus cereus
 (C) Salmonella (D) Shigella
117. Scrub typhus is caused by
 (A) Rickettsia rickettsii (B) Coxiella Burnetti
 (C) Rickettsia prowaziki (D) Orientia tsutsugamushi
118. Treatment of acute Hepatitis B in previously healthy adult is by
 (A) Lamivudine (B) Entecavir
 (C) Adefovir (D) None of the above
119. Which mineral reduces the risk of colorectal cancer
 (A) Potassium (B) Magnesium
 (C) Sodium (D) Calcium
120. Choose the incorrect answer-carcinogen causing cancer
 (A) Chromium – lung cancer (B) Benzene – acute lymphoblastic leukemia
 (C) Vinyl chloride – liver cancer (D) Aromatic amines – bladder cancer
121. Quadrivalent HPV vaccine covers all the strains except
 (A) HPV 6 (B) HPV 8
 (C) HPV 16 (D) HPV 18
122. Obesity is associated with increased risk of carcinoma in
 (A) Endometrium, colon, breast (B) Endometrium, lung
 (C) Colon, skin (D) Esophagus, colon, and oral
123. Progeroid syndrome includes all except
 (A) Werner's syndrome (B) Hutchinson- Gilford progeria syndrome
 (C) Cockayne syndrome (D) Angelman syndrome

124. Pharmacological agent tried in experimental models in order to delay aging process
 (A) Rapamycin (B) Rifampicin
 (C) Streptomycin (D) Rifaximin
125. Choose the correct match - tumors vs cancer
 (A) CD 30 – hairy cell leukemia
 (B) Neuron specific enolase – small cell lung carcinoma
 (C) CD 25 – Hodgkin’s disease
 (D) LDH – adult T cell leukemia
126. Prognostic Index used in cancer patient
 (A) Maddrey’s score (B) Child Pugh score
 (C) Karnofsky score (D) Reid index
127. Human immunodeficiency virus cause
 (A) Nonhodgkin’s lymphoma (B) Kaposi’s sarcoma
 (C) Squamous cell carcinoma (D) All of the above
128. Drug of choice in hepatocellular carcinoma
 (A) Sunitinib (B) Sorafenib
 (C) Axitinib (D) Osimertinib
129. Which of the following disease is included in NPCDCS programme recently?
 (A) NAFLD (B) Chronic kidney disease
 (C) Cirrhosis (D) Cervical spondylosis
130. The first indigenous anticovid drug from India
 (A) Remdesvir (B) 2-deoxy D-glucose
 (C) Baricitnib (D) imedivimab
131. All the following are true about CoviSelf except
 (A) It is a home testing method using Rapid antigen test
 (B) Advised only in symptomatic patients and immediate contacts of lab confirmed cases
 (C) All positive cases needs to be confirmed with RT-PCR
 (D) All symptomatic negative cases to be tested by RT-PCR
132. which of the following genes increases the risk of collapsing glomerulopathy in covid 19 patients?
 (A) NPHS1 (B) ACTN4
 (C) APOL1 (D) TRPC6
133. A medical staff sustained a needle stick injury while sampling blood from a HIV positive patient. Which one of the following is the best recommended post exposure prophylaxis?
 (A) Zidovudine + lamivudine for 4 weeks
 (B) Lamivudine + tenofovir + dolutegravir for 4 weeks
 (C) Lamivudine + tenofovir + efavirenz for 4 weeks
 (D) Zidovudine + nevirapine for 4 weeks

134. Which of the following is incorrect regarding new WHO guidelines to prevent mother to child transmission of HBV?
- (A) Tenofovir should be started in 12 th week
 - (B) Tenofovir should be started if HBV DNA viral load is ≥ 200000 IU/ml
 - (C) HBeAg testing should be used where HBV DNA testing is not available
 - (D) To eliminate HBV infection as a public health the prevalence of HBsAg should be below 0.1 % in children below 5 years of age
135. Which among the following is proposed as the etiology behind peripartum cardiomyopathy?
- (A) beta subunit of hCG
 - (B) elevated calcitonin
 - (C) human placental lactogen
 - (D) sub form of prolactin
136. Identify the wrong match
- (A) Pfizer – mRNA-based vaccine
 - (B) COVAXIN – inactivated vaccine
 - (C) AstraZeneca – nonreplicating viral vector vaccine
 - (D) Moderna – recombinant DNA vaccine
137. Which of the following is true regarding GINA 2019 guideline for management of bronchial asthma?
- (A) SABA is no longer recommended as the main treatment in asthma
 - (B) low dose Inhalational corticosteroid is advised for mild asthma
 - (C) low dose inhalational corticosteroid and LABA is given for the treatment of moderate asthma
 - (D) All are true
138. The triad of portal vein thrombosis, hemolysis, pancytopenia suggests which of following
- (A) acute promyelocytic leukemia
 - (B) hemolytic uremic syndrome (HUS)
 - (C) Leptospirosis
 - (D) paroxysmal nocturnal hemoglobinuria (PNH)
139. Which of the following regarding polycythemia vera is CORRECT
- (A) An elevated plasma erythropoietin level excludes the diagnosis
 - (B) Transformation to acute leukemia is common
 - (C) Thrombocytosis correlates strongly with thrombotic risks
 - (D) Phlebotomy is used only after hydroxyurea and interferon have been tried
140. All of the following are suggestive of iron deficiency anemia EXCEPT
- (A) Koilonychia
 - (B) Pica
 - (C) Decreased serum ferritin
 - (D) Decreased total iron binding capacity (TIBC)

141. Which is the most cost-effective test to evaluate a patient for suspected vit b12 deficiency
 (A) Red blood cell folate (B) Serum cobalamin
 (C) homocysteine (D) serum methylmalonate
142. All of the following regarding anaemia of chronic kidney disease are true EXCEPT
 (A) The degree of anaemia correlates with stage of chronic kidney disease
 (B) Erythropoietin levels are reduced
 (C) Ferritin is reduced
 (D) It is typically normocytic and normochromic
143. All of the following statements regarding the utility of hydroxyurea in patients with sickle cell disease are true EXCEPT
 (A) It is effective in reducing painful crisis
 (B) It produces a chimeric state with partial production of HbA by bone marrow
 (C) It should be considered in patients with repeated acute chest syndrome episodes.
 (D) Its mechanism involves production of fetal hemoglobin
144. Aplastic anemia has been associated with all of the following EXCEPT
 (A) Carbamazepine therapy (B) Methimazole therapy
 (C) Seronegative hepatitis (D) Parvovirus B19 infection
145. Dry bone marrow aspiration occurs in
 (A) Hairy cell leukemia (B) Myelofibrosis
 (C) Metastatic carcinoma infiltration (D) All the above
146. All of the following infectious agents have been associated with development of a lymphoid malignancy EXCEPT
 (A) Helicobacter pylori (B) Human herpes virus 8 (HHV8)
 (C) Hepatitis B (D) Hepatitis C
147. The evaluation in a newly diagnosed case of acute lymphoid leukemia should routinely include all the following except
 (A) Bone marrow biopsy (B) Cell surface phenotyping
 (C) Lumbar puncture (D) Plasma viscosity
148. which of following carries best prognosis with appropriate treatment?
 (A) Burkitt's lymphoma (B) Follicular lymphoma
 (C) Mantle cell lymphoma (D) Nodular sclerosing Hodgkin's disease
149. All of the following are vitamin k dependent coagulation factors EXCEPT
 (A) Factor X (B) Factor VII
 (C) Protein S (D) Factor VIII
150. All of the following genetic mutations are associated with an increased risk of deep venous thrombosis EXCEPT
 (A) Factor V Leiden mutation (B) Glycoprotein 1b platelet receptor
 (C) Prothrombin 20210 G (D) Heterozygous protein C deficiency

151. All of the following cause prolongation of the activated partial thromboplastin time that does not correct with a 1:1 mixture with pooled plasma EXCEPT
- (A) Lupus anticoagulant (B) Heparin
(C) Factor VIII inhibitor (D) Factor VII Inhibitor
152. Osmoreceptors are located in?
- (A) posterior pituitary (B) anterolateral hypothalamus
(C) posteromedial hypothalamus (D) all of the above
153. hypokalemia is frequently associated with?
- (A) metabolic acidosis (B) metabolic alkalosis
(C) respiratory acidosis (D) mixed acid base disorders
154. Which of the following is false regarding sodium polystyrene sulfonate?
- (A) Anion-exchange resin
(B) Dose frequency 4-6hrs
(C) Usual dose is 15-30 gram orally in powder form
(D) Can be administered as retention enema
155. Which part of the nephron reabsorbs most of HCO_3^- ?
- (A) Proximal convoluted tubule (B) Loop of Henle
(C) Distal convoluted tubule (D) Collecting ducts
156. Type A lactic acidosis is due to all except?
- (A) Severe anemia (B) Mitochondrial enzyme defects
(C) Diabetes mellitus (D) shock
157. Syndrome of inappropriate antidiuretic hormone secretion (SIADH) causes?
- (A) Normovolemic hyponatremia (B) Hypovolemic hyponatremia
(C) Hypervolemic hyponatremia (D) Any of the above
158. Minimum urine osmolality in humans can be?
- (A) 50 mosmol/kg (B) 100 mosmol/kg
(C) 150 mosmol/kg (D) 200 mosmol/kg
159. In simple metabolic acidosis, PaCO_2 would decrease by how much for each mmol/L decrease in $[\text{HCO}_3^-]$
- (A) 1.50 mmHg (B) 1.75 mmHg
(C) 2.00 mmHg (D) 1.25 mmHg
160. Which part of nephron reabsorbs most of HCO_3^- ions?
- (A) Proximal convoluted tubule (B) Loop of Henle
(C) Distal convoluted tubule (D) Collecting ducts
161. Plasma sodium concentration falls by how much for every 100mg/dL rise in plasma glucose concentration?
- (A) 0.8-1.0 mmol / L (B) 1.1-1.2 mmol / L
(C) 1.3-1.5 mmol / L (D) 1.6 -2.4 mmol / L

162. Urine tonicity is calculated by?
 (A) $[Na^+] + [K^+] - [Cl^-]$ (B) $[Na^+] \times [K^+]$
 (C) $[Na^+] \times [K^+] \div [Cl^-]$ (D) $[Na^+] + [K^+]$
163. Bartter's syndrome is characterized by all except?
 (A) Hypokalemia (B) Metabolic alkalosis
 (C) Hyperuricemia (D) None of the above
164. Which of the following is a competitive mineralocorticoid antagonist?
 (A) Spironolactone (B) Amiloride
 (C) Triamterene (D) All of the above
165. Which of the following is false regarding sodium polystyrene sulfonate?
 (A) Anion-exchange resin
 (B) Dose frequency 4-6hrs
 (C) Usual dose is 15-30 gram orally in powder form
 (D) Can be administered as retention enema
166. Formula for calculating Transtubular Potassium Gradient (TTKG) is?
 (A) $(S k^+ \times U k^+) / (S Osm \times U Osm)$ (B) $(S Osm \times S k^+) / (U k^+ \times U Osm)$
 (C) $(S Osm \times U k^+) / (S k^+ \times U Osm)$ (D) $(S k^+ \times U Osm) / S Osm \times U k^+$
167. In respiratory acidosis, papilledema is due to?
 (A) Vasoconstriction (B) Vasodilatation
 (C) Hyperviscosity (D) Renal failure
168. Dipstick positive level of albuminuria is?
 (A) 30 mg (B) 150 mg
 (C) 300 mg (D) 500 mg
169. Which of the following is false about IgA nephropathy?
 (A) Female preponderance
 (B) Peak incidence in II & III decades of life
 (C) Recurrent episodes of macroscopic hematuria
 (D) Between episodes, urinalysis is normal
170. The preferred cancer prevention strategy in screening for colorectal cancer in asymptomatic individuals is
 (A) Fecal occult blood test done annually (B) Colonoscopy every 10 yrs
 (C) CT colonoscopy every 5 yrs (D) Flexible sigmoidoscopy every 5 yrs
171. Which of the following has a well-established association with GERD?
 (A) Recurrent aspiration pneumonia (B) Sleep apnoea
 (C) Dental erosion (D) Cardiac arrhythmias
172. Which of the following is the correct statement regarding the epidemiology of the inflammatory bowel disease?
 (A) Oral contraceptive use increases the incidence of ulcerative colitis
 (B) Monozygotic twins are highly concordant for ulcerative colitis
 (C) Smoking increases the incidence of ulcerative colitis
 (D) Typical age of onset of for Crohn's disease is 40-50 yrs

173. Which of the following is the most common symptom or sign of liver disease?
 (A) Jaundice (B) Nausea
 (C) Fatigue (D) Right upper quadrant pain
174. A 26 yr old pregnant mother presents to your clinic seeking advice regarding hep B vaccine. She denies alcohol or illicit drug usage and is in a monogamous relationship. Which of the following is true regarding Hep B vaccination?
 (A) Hep B vaccine has 2 doses 1 month apart
 (B) Pregnancy is not a contraindication to the Hep B vaccination
 (C) Only patients with defined risk factors should be vaccinated
 (D) The patient's hepatitis serologies should be checked
175. Which of the following drugs has a direct toxic effect on hepatocytes?
 (A) Chlorpromazine (B) Acetaminophen
 (C) Rosuvastatin (D) Isoniazid
176. A 36-year-old man presents with fatigue and high coloured urine for 5 days. On examination he has jaundice, tender hepatomegaly. His AST 2400U/L, ALT 2640U/L, ALP 210U/L, Total Billirubin-8.6mg/dL. Which of the following is the least likely diagnosis to cause this clinical picture and lab parameters?
 (A) Acute Hepatitis A infection (B) Budd Chiari syndrome
 (C) Acute Hepatitis C infection (D) acetaminophen ingestion
177. A 42 year old man with cirrhosis related to alcohol abuse and hepatitis C has ascites needing frequent large volume paracentesis. All of the following therapies would be indicated for the patient except:
 (A) sodium restriction to less than 2 g/day
 (B) frusemide 40 mg daily
 (C) spironolactone 100 mg daily
 (D) fluid restriction to less than 2 L daily
178. which of the following is not included in CURB-65 criteria?
 (A) age > 60 years (B) confusion
 (C) urea > 7 mmol/l (D) RR > 30 / min
179. Which one of the following is not a criteria for diagnosis of ARDS?
 (A) $\text{PaO}_2 / \text{FiO}_2 \leq 100$ mmHg (B) bilateral interstitial infiltrates in Xray
 (C) PCWP ≤ 18 (D) PCWP > 18
180. All of the following has restrictive pathophysiology, except
 (A) Idiopathic pulmonary fibrosis (B) Asbestosis
 (C) Desquamative interstitial pneumonitis (D) bronchiolitis
181. In pulmonary hypertension all are given except
 (A) endothelin receptor antagonist (B) phosphodiesterase inhibitors
 (C) calcium channel blockers (D) beta blockers
182. Which one of the following conditions may lead to exudative pleural effusion?
 (A) cirrhosis (B) nephrotic syndrome
 (C) congestive cardiac failure (D) bronchogenic carcinoma

183. which of the following is not a diagnostic criterion of acute eosinophilic pneumonia?
 (A) hypoxemic respiratory failure
 (B) diffuse pulmonary infiltrates on chest x ray
 (C) bronchoalveolar lavage eosinophils > 25%
 (D) no response to corticosteroids
184. A 60 yr old male presented to the emergency department with breathlessness, facial swelling, and dilated veins in the chest wall. the most common cause is
 (A) thymoma (B) lung cancer
 (C) Hodgkin's lymphoma (D) svc obstruction
185. which of the following gene is involved in cystic fibrosis?
 (A) ATP-7B (B) CFTR
 (C) HFE (D) α 1 antitrypsin
186. "F99" in Mental and Behavioural Disorders of ICD-10 codes for
 (A) Mental and Behavioural disorders due to Psychoactive substance
 (B) Unspecified Mental Disorder
 (C) Schizophrenia, Schizotypal and Delusional Disorders
 (D) Disorders of Adult Personality and Behaviour
187. CARPHOLOGIA is a motor symptom seen in
 (A) Organic hallucinosis (B) Dementia
 (C) Delirium (D) Organic Anxiety disorder
188. Degree of awareness and understanding that the patient has regarding his illness is termed as
 (A) Perception (B) Judgement
 (C) Thought (D) Insight
189. NEUROLEPTIC SENSITIVITY SYNDROME is a feature of
 (A) AIDS-Dementia Complex (B) Lewy Body Dementia
 (C) Hypothyroid Dementia (D) Multi-infarct Dementia
190. Cannabis preparation that includes the resinous exudate from the flowering tops of cultivated plants is called as
 (A) Hashish (B) Ganja
 (C) Hash oil (D) Bhang
191. 4A's of Bleuler includes all except
 (A) Ambivalence (B) Affect disturbances
 (C) Audible thoughts (D) Autism
192. Which is a good prognostic factor in schizophrenia?
 (A) Onset less than 20 years of age
 (B) Female sex
 (C) Chronic course of more than two years
 (D) Male sex

193. When the content of delusions is predominantly involving the spouse, it is called as
 (A) Delusional dysmorphophobia
 (B) Clerambault's syndrome
 (C) Monosymptomatic hypochondriacal psychosis
 (D) Othello syndrome
194. In a clinical trial investigator knows that, study cause harm to the participants. which of the following ethical principles does the investigator violates?
 (A) justice (B) Autonomy
 (C) Beneficence (D) Non-maleficence
195. In a research study External validity means
 (A) The degree to which the inferences drawn from a study can be generalized to broader population beyond a study population
 (B) The degree with which a test actually measures what it designed to measure
 (C) it is the overall consistency of a measure.
 (D) the degree to which conclusions about the relationship among variables based on the data are correct.
196. Best study design to study multiple outcomes is
 (A) Case control study (B) Nested case control study
 (C) Cohort study (D) Ecological study
197. Coefficient of variance is
 (A) (mean/standard deviation) *100
 (B) standard deviation / square root of sample size
 (C) (Standard deviation / mean) *100
 (D) X - mean/standard deviation.
198. Which is not a HILLS CRITERIA OF CAUSATION
 (A) Strength of association (B) Biological plausibility
 (C) Reasoning (D) Temporality
199. In a research study Out of 10 lung cancer cases 8 are smokers and out of 10 control 2 are smokers. What is the odds ratio?
 (A) 18 (B) 28
 (C) 16 (D) 6
200. Type 1 error in biostatistics means.
 (A) Also known as beta error
 (B) Rejecting null hypothesis when it is true.
 (C) Failing to reject null hypothesis, when it is false
 (D) Not finding an effect even though it is there