BDJ

PROVISIONAL ANSWER KEY (CBRT)

Name of the post	TB and Chest Disease Specialist, ESIS, Class-1
Advertisement No.	1/2022-23
Preliminary Test held on	11-00-2022
Question No.	01-200
Publish Date	12-09-2022

Last Date to Send Suggestion(s) 20-09-2022

THE LINK FOR ONLINE OBJECTION SYSTEM WILL START FROM 14-09-2022; 04:00 PM ONWARDS

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 વાંધાં-સૂચનો ફક્ત **ઓનલાઈન ઓજેક્શન સબમીશન** સીસ્ટમ લ્રારા જ સબમીટ કરવાના રહેશે. રૂબરૂ અથવા ટપાલ દ્રારા આયોગની કચેરીએ મોકલવા આવેલ વાંધા-સૂચનો ધ્યાને લેવામા આવશે નહીં જેની ખાસ નોંધ લેવી.
- (2) ઉમેદવારે વાંધા-સૂચનો રજૂ કરવા વેબસાઈટ / ઓનલાઈન ઓબ્જેક્શન સબમીશન સીસ્ટમ પર પ્રસિધ્ધ થયેલ નિયત નમૂનાનો જ ઉપયોગ કરવો.
- (3) ઉમેદવારે પોતાને પરીક્ષામાં મળેલ પ્રશ્નપપુસ્તિકામાં છપાયેલ પ્રશ્નક્રમાક મુજબ વાંધા-સૂચનો રજૂન કરતા તમામ વાંધા-સૂચનો વેબસાઈટ પર પ્રસિધ્ધ થયેલ પ્રેવિઝનલ 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 ઉત્તરવફીમાં આપેલ ફોવો જોઈએ. ઉમેદવારે સૂચવેલ જવાબ અને ઉત્તરવફીનો જવાબ ભિન્ન ફશે તો ઉમેદવારે રજૂ કરેલ વાંધા-સૂચનો ધ્યાનમા લેવાશે નફીં.
- (6) એક પ્રશ્ન માટે એક જ વાંધા-સ્ચન પત્રક વાપરવું. એક જ વાંધા-સ્ચનો પત્રકમાં એકથી વધારે પ્રશ્નોની રજૂઆત કરેલ હશે તો તે અંગેના વાંધા-સ્ચનો ધ્યાને લેવાશે નહીં.

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

001.	Pulmonary Function Testing is used to	
	(A) Functional state of respiratory system	(B) Diagnosis of all respiratory disease
	(C) Both (A) and (B)	(D) None of above
002.	Spirometry measures the amount of air	
	(A) Inhaled	(B) Exhaled
	(C) Both (A) and (B)	(D) None of the above
003.	Spirometry is indicated for	
	(A) Any occupational hazardous exposure to	o lungs
	(B) Presurgical evaluation	
	(C) Persistent respiratory symptoms	
	(D) All of the above	
004.	Spirometry is excellent tool for diagnosis of	
	(A) Acute airway obstruction	(B) Chronic airway obstruction
	(C) Both (A) and (B)	(D) None of the above
005.	Largest volume measured on complete exha	lation after full inspiration is?
	(A) Forced vital capacity	(B) Maximal voluntary ventilation
	(C) Vital capacity	(D) Forced expiratory volume
006.	Volume of gas exhaled in a given time durin	g performance of FVC is?
	(A) Forced vital capacity	(B) Maximal voluntary ventilation
	(C) Vital capacity	(D) Forced expiratory volume
007.	Volume of air a subject can breathe with vo	luntary maximal effort for a given time is?
	(A) Forced vital capacity	(B) Maximal voluntary ventilation
	(C) Vital capacity	(D) Forced expiratory volume
008.	The average forced expiratory flow between	25% and 75% (FEF25%–75%) of FVC is
	(A) Most effort Independent portion of the	curve
	(B) More sensitive to airflow in Central Air	ways
	(C) Both (A) and (B)	
	(D) None of the above	
009.	Gas Dilution Method make primary measu	rement of
	(A) Vital capacity	(B) Inspiratory capacity
	(C) Expiratory reserve volume	(D) Residual volume
010.	In the single- breath measurement of the diffusing capacity for carbon monoxide (DLCO), lung volume can be calculated by measuring the change in concentration of the	
	(A) Neon	(B) Helium
	(C) Methane	(D) All of the above
011.	Plethysmography is of	
	(A) Pressure type	(B) Volume type
	(C) Pressure-volume type	(D) All of the above
012.	Lung elastic recoil helps differentiate betwee	een
	(A) Emphysema	(B) Fibrosis
	(C) Both (A) and (B)	(D) None of the above

013.	Near approaching residual volume during forceful expiration, airway resistance is		
	(A) Higher than normal	(B) Lower than normal	
	(C) Equal to normal	(D) No change	
014.	Factors Reducing DLCO is?		
	(A) Polycythemia	(B) Altitude	
	(C) Supine position	(D) Anemia	
015.	Bronchial Provocation test can be used to) diagnose	
	(A) COPD	(B) Pulmonary embolism	
	(C) Occupational asthma	(D) All of the above	
016.	Obstructive Ventilatory Defect has		
	(A) Normal FVC	(B) Decreased FVC	
	(C) Both (A) and (B)	(D) None of the above	
017.	Restrictive Ventilatory defect has		
	(A) Decreased VC	(B) Decreased TLC	
	(C) Normal FEV1/FVC	(D) All of the above	
018.	Methacholine challenge test is used to dia	agnose	
	(A) COPD	(B) Bronchial asthma	
	(C) Pulmonary tuberculosis	(D) Pulmonary embolism	
019.	Bronchodilator challenge test uses		
	(A) Albuterol 100mcg	(B) Ipratropium bromide 36mcg	
	(C) Both (A) and (B)	(D) None of the above	
020.	Which of following is obstructive airway disease?		
	(A) Bronchiectasis	(B) Berryliosis	
	(C) Sarcoidosis	(D) Myasthenia gravis	
021.	Permanent enlargement of airspaces dis destruction	tal to the terminal bronchioles due to alveolar wall	
	(A) Emphysema	(B) COPD	
	(C) Bronchiectasis	(D) Bronchial Asthma	
022.	Types of Emphysema are		
	(A) Centrilobular	(B) Panlobular	
	(C) Paraseptal	(D) All of the above	
023.	Major Etiological Factors of COPD are?		
	(A) Smoke exposure		
	(B) Workplace exposures to Indoor and o	outdoor inhalants	
	(C) Both (A) and (B)		
	(D) None of above		
024.	The key Pathologic processes of copd are		
	(A) small airway disease	(B) mucus hypersecretion	
	(C) vascular dysfunction	(D) All of the above	
025.	The Earliest overt Lesion of copd is		
	(A) Small airway remodelling	(B) Mucus hypersecretion	
	(C) Inflammatory cell infiltration	(D) All of the above	

026.	Slowly growing mycobacteria among the following	
	(A) M. Kansasii	(B) M. Abscessus complex
	(C) M. Fortuitum	(D) M. Peregrinum
027.	Which of the following non tuberculous mycob	pacteria is involved in skin and soft tissue infections
	(A) M.Malmoense	(B) M.Haemophilum
	(C) M.Ulcerans	(D) M.Xenopi
028.	Which of the following are the contraindication	ons for video assisted thoracoscopy(VATS)
	(A) Previous pneumonectomy	(B) Severe COPD
	(C) Pleural adhesions	(D) All of the above
029.	Identify the slowly growing photochromogen	amongst the following
	(A) M. Avium Complex	(B) M. Xenopi
	(C) M. Kansasii	(D) M. Haemophilum
030.	Identify the correct statement amongst the nontuberculous mycobacteria	following in light of microbiological diagnosis of
	(A) Positive culture from at least two bronch	ial wash or lavage
	(B) Positive culture results from one expecto	rated sputum sample
	(C) Positive culture from at least one bronch	ial wash or lavage
	(D) No role of repeat sputum sample if the fi	rst expectorated sputum sample is negative
031.	Which of the following nontuberculous myce	bacteria is a thermophile
	(A) M.Kansasii	
	(<mark>B)</mark> M.Xenopi	
	(C) M.Avium Complex	
	(D) M.Abscessus Complex	
032.	Total lung capacity (TLC), is defined as	
	(A) Total volume of air contained in the lung	s after a maximal inhalation
	(B) Total volume of air contained in the lung	s after a maximal exhalation
	(C) The volume of air that remains in the lun	gs at the end of a normal expiration
	(D) None of the above	
033.	33. Which of the following drug is not used in treatment of nodular/bronchiectasis type of tuberculous mycobacteria	
	(A) Azithromycin	(B) Ethambutol
	(C) Rifampin	(D) Streptomycin
034.	Which of the following drug is known to cau	se uveitis
	(A) Ethambutol	(B) Rifabutin
	(C) Isoniazid	(D) Streptomycin
035.	What is the volume of air that is exhaled inspiration?	by a maxi- mum expiration after a maximum
	(A) Vital capacity	(B) Inspiratory capacity
	(C) Total lung capacity	(D) Expiratory reserve volume

036.	5. Which of the following criteria is correct regarding extubation of a patient who has under lung resection?		
	(A) Vital capacity more than 10ml/kg	(B) Respiratory rate less than 32 breaths per min	
	(C) Vital capacity more than 20ml/kg	(D) Respiratory rate less than 24 breaths per min	
037.	Which of the following drug is known to en	hance rifabutin toxicity?	
	(A) Clarithromycin	(B) Imipenem	
	(C) Azithromycin	(D) Streptomycin	
038.	Crohn's disease is caused by which of the following non tuberculous mycobacteria		
	(A) M.Kansasii	(B) M.Avium Complex	
	(C) M.Paratuberculosis	(D) M.Szulgai	
039.	Which of the following is the correct definit	ion of Alveolar pleural fistula?	
	(A) Communication between pulmonary para space	enchyma distal to a segmental bronchus and pleural	
	(B) Communication between pulmonary pa pleural space	renchyma proximal to a segmental bronchus and	
	(C) Communication between pulmonary par space	renchyma distal to terminal bronchus and pleural	
	(D) None of the above		
040.	Which of the following non tuberculous myc in children?	obacteria is known to cause cervical lymphadenitis	
	(A) M.Xenopi	(B) M.Kansasii	
	(C) M.Scrofulaceum	(D) M.Simiae	
041.	Inheritance pattern seen in primary ciliary	dyskinesia is	
	(A) Autosomal Dominant	(B) Autosomal Recessive	
	(C) X Linked Recessive	(D) X Linked Dominant	
042.	Which of the following are responsible for air	r way injury and chronic bronchiectasis pathology?	
	(A) Neutrophil derived elastases	(B) Macrophage derived elastases	
	(C) Proteases	(D) All of the above	
043.	Allergic bronchopulmonary aspergillosis is	caused by which of the following organisms	
	(A) A. Flavus	(B) A. Fumigatus	
	(C) A. Niger	(D) A. Terreus	
044.	Which of the following organism has been k lung impairment in bronchiectasis?	nown to be the most causative organism of severe	
	(A) P. Aeruginosa	(B) Haemophilus Influenzae	
	(C) Streptococci	(D) All Of The Above	
045.	Cystic fibrosis is caused by deficiency in the	following the gene	
	(A) ACFTR GENE	(B) MMP12 GENE	
	(C) TGF BETA 1 GENE	(D) ADAM33 GENE	
046.	Which of the following tests are done to dia	gnose Allergic Bronchopulmonary Aspergillosis?	
	(A) Sweat Chloride Test	(B) Bronchoscopy	
	(C) Alpha-1-Antitrypsin Level	(D) All of the above	

047. Most common form of TB in children less than 1 year		less than 1 year
	(<mark>A)</mark> Meningeal TB	(B) Lymphatic TB
	(C) Miliary TB	(D) Bone/Joint TB
048.	Cyclic rise and fall in ventilation with	recurrent periods of apnea and near apnea is known as
	(A) Kussmaul Breathing	(B) Biot's Breathing
	(C) Cheyne Stokes Breathing	(D) None of the above
049.	Crescendo decrescendo pattern of brea	athing is seen in which form of breathing
	(A) Kussmaul Breathing	(B) Biot's Breathing
	(C) Cheyne Stokes Breathing	(D) None of the above
050.	Hering-Breuer reflex, which describes the following receptors	the termination of inspiration is mediated by which of
	(A) Slowly Adapting Receptors	(B) Rapidly Adapting Receptors
	(C) Bronchial J Receptors	(D) Bronchial C Receptors
051.	Surfactant production is enhanced by	all except
	(A) Glucocorticoids	(B) EGF
	(C) CAMP	(<mark>D)</mark> TNF-alpha
052.	Surfactant protein exclusively expresse	d in TYPE 2 alveolar cells
	(A) SP-A	(B) SP-B
	(C) SP-C	(D) SP-D
053.	Early onset Pulmonary alveolar proteinosis in adult is due to	
	(A) Autoantibodies against CSF 2(GM-CSF)	
	(B) Mutation in gene encoding GM CS	F receptor
	(C) Mutation of CSF 2	
	(D) None of the above	
054.	As age advances the distance between	alveolar walls increases while surface to volume ratio
	(A) Increases	(B) Decreases
	(C) Unchanged	(D) None of the above
055.	Elastic recoil of lung parenchymal is p	roduced by
	(A) Surface tension at air fluid interfac	ce
	(B) Retractive forces that are produced when fibrous skeleton of lung is stretched	
	(C) Both (A) and (B)	
	(D) None of the above	
056.	Components of Bellows apparatus	
	(A) Chest wall	(B) Muscles of respiration
	(C) Both (A) and (B)	(D) None of the above
057.	Loss of elastic recoil is physiological hallmark of	
	(A) Asthma	(B) Emphysema
	(C) ILD	(D) Pnemonia
058.	The total volume of pleural fluid is abo	out
	(A) 5 to 10 ml	(B) 10 to 15 ml
	(C) 15 to 20 ml	(D) 20 to 25 ml

059.	Defender of alveolus	
	(A) Type 1 cells	(B) Type 2 cells
	(C) Both (A) and (B)	(D) None of the above
060.	Main function of Type 2 alveolar cells	
	(A) Source of surfactant production	(B) Regeneration of alveolar epithelium
	(C) Both (A) and (B)	(D) None of the above
061.	Alveolar diameter ranges from	
	(A) 100 to 200 micrometre	(B) 150 to 250 micrometre
	(C) 200 to 250 micrometre	(D) 250 to 300 micrometre
062.	Gas movement between environment and	alveolar space is function of
	(A) Conducting airways	(B) Lung parenchyma
	(C) Interstium	(D) All of the above
063.	Common congenital anomaly of respirato	ry tract
	(A) Tracheo esophageal fistula	(B) Tracheal stenosis
	(C) Lung agenesis	(D) Tracheomalacia
064.	Curvilinear vascular density in the right le	ower lung on cxr is seen in
	(A) Lung sequestration	(B) Scimitar syndrome
	(C) AV malformations	(D) Pericardial cyst
065.	Stocker classification used for	
	(A) TEF	
	(B) Congenital Adenomatoid Malformatio	n of Lung
	(C) Sequestration	
	(D) Tracheal Agenesis	
066.	M/c type of tracheal agenesis	
	(A) Type 1	(B) Type 2
	(C) Type 3	(D) None of the above
067.	Respiratory progenitors of lung and track	ea arise from ventral foregut endoderm at around
	(A) 2nd week of gestation	(B) 2nd week of gestation
	(C) 3rd week of gestation	(D) 4th week of gestation
068.	Which is responsible for collateral ventila	tion in adult alveoli?
	(A) Pores of Kohn	(B) Clara cells
	(C) Type 2 cells	(D) Type 1 cells
069.	Alpha 1 antitrypsin deficiency is associate	d with
	(A) Centrilobular emphysema	(B) Panlobular emphysema
	(C) Both (A) and (B)	(D) Paraseptal emphysema
070.	As age advances which component is mor	e vulnerable in cough and swallowing reflex?
	(A) Sensory	(B) Motor
	(C) None of the above	(D) All of the above
071.	Most common Tb in pregnancy is	
	(A) Pulmonary	(B) Extrapulmonary
	(C) Lymph Node	(D) Miliary

072.	Most common type of sequestration	ı is
	(A) Intralobular	(B) Extralobular
	(C) None of the above	(D) Both (A) and (B)
073.	Abnormal budding of tracheobronc	hial tree during the course of development gives rise to
	(A) Azygos lobe	(B) Bronchohenic cyst
	(C) Enterogenic cyst	(D) None of the above
074.	Important clinical feature of non tr	aumatic bilateral diaphragmatic paralysis is
	(A) Aspiration	(B) Orthopnea
	(C) Vomiting	(D) Chest pain
075.	A FVC of how much is sign of imm	inent respiratory failure in GBS
	(<mark>A)</mark> 15cc/kg	(B) 20cc/kg
	(C) 25cc/kg	(D) 10cc/kg
076.	In humans, what is the percentage of	of oxidative fibers, the diaphragm is composed of ?
	(A) 30%	(<mark>B)</mark> 80%
	(C) 70%	(D) 45%
077.	What is the nerve supply of diaphra	agm?
	(A) Phrenic nerves supplied by the o	cervical nerve Roots C3 to C5
	(B) Phrenic nerves supplied by the o	cervical nerve Roots C3 to C4
	(C) Vagus nerve	
	(D) Musculophrenic nerve	
078.	Which type of muscles primarily co	mposes of type of fibres have high endurance capacity?
	(A) Type I fibres	(B) Type II fibres
	(C) Type iia fibres	(D) Type IV fibre
079.	Which type of muscles primarily con have low endurance capacity?	mposes of type of fibres designed to develop high forces but
	(A) Type I fibres	(B) Type II fibres
	(C) Type iib fibres	(D) Type IV fibres
080.	Which type of muscles have the greater about 60% of the cephalad motion	atest mechanical advantage, and their contraction produces of the rib during inspiration?
	(A) External intercostal	(B) Diaphragm
	(C) Sternocleidomastoid	(D) Parasternal intercostal
081.	Which type of muscles are recruited	d predominantly during expiration?
	(A) Internal intercostals	(B) Diaphragm
	(C) Sternocleidomastoid	(D) Parasternal intercostal
082.	During quiet breathing, what contri	butes about 60% to 70% of the tidal volume?
	(A) Internal intercostals	(<mark>B)</mark> Diaphragm
	(C) Sternocleidomastoid	(D) Parasternal intercostal
083.	What is congenital absence of the p	osterolateral part of the diaphragm called?
	(A) Bochdalek hernia	(B) Morgagni hernia
	(C) Traumatic hernia	(D) Hiatus hernia

084.	Which lipid mediator is thought to I cells recruitment?	Protect against bronchospasm and inhibit inflammatory
	(A) A.PGE2	(B) B. PGE1
	(C) C.PG I2	(D) D.PGF2
085.	What are small–molecular-weight glyco of different cell types with autocrine,	osylated signaling molecules that are secreted by a number paracrine, or endocrine directive activities called?
	(A) Cytokines	(B) Chemokines
	(C) Peptide hormones	(D) Growth hormone
086.	What does EMTU stand for, a key c reactivated in chronic asthma?	omponent of early lung morphogenesis, which, becomes
	(A) Epidermal–Mesangial Trophic Ur	nit
	(B) Epithelial–Mesangial Tropical Un	it
	(C) Epithelial–Mesangial Trophic Uni	it
	(D) Epithelial–Mesenchymal Trophic	Unit
087.	All of the following are mast cells Me	diators except mediators
	(A) Elastase	(B) Chymase
	(C) Tryptase	(D) Collagenase
088.	Which of the following is the most pa	thognomic signs for abpa on radiological findings?
	(A) Central Bronchiectasis	(B) Fleeting shadows
	(C) Gloved finger sign	(D) High attenuation mucus
089.	What are The patient group who whe	ezed both before and after the age of 3 years called?
	(A) Persistent wheezers	(B) Chronic wheezers
	(C) Asthmatic wheezers	(D) Allergic wheezers
090.	Which of the following intrinsic muscl	es is not responsible for the adductor of vocal cords ?
	(A) Lateral crico arytenoids	(B) Posterior crico arytenoids
	(C) Oblique arytenoids	(D) Transverse arytenoids
091.	Which of the following muscle is invo inspiration?	olved mainly in elevation offirst and second ribs during
	(A) Sternocleidomastoid muscle	(B) Scalene muscles
	(C) Pectoralis major muscle	(D) Internal intercostal muscles
092.	A patient is presented with dyspnea, wheezing and cough. Skin testis negative and serum Ig E is found to be normal. Which of the following is might not be the cause for this case ?	
	(A) Viral infection	(B) Cold exposure
	(C) Aspirin administration	(D) Exposure to pollen
093.	Which of the following muscle is involved mainly in elevation of first and second ribs during inspiration?	
	(A) Sternocleidomastoid muscle	(B) Scalene muscles
	(C) Pectoralis major muscle	(D) Internal intercostal muscles
094.	Charcot leyden crystals are derived fi	rom
	(A) Eosinophils	(B) Basophils
	(C) Neutrophils	(D) Monocytes

095.	What is the term for characteristic pattern of atopic disease development during infancy atopi dermatitis/ eczema in the first year of life, associated with food intolerance or allergy, followed by rhinoconjunctivitis and/or wheezing illnesses getting diagnosed as asthma?	
	(A) Atopic March	(B) Allergic Rhinitis with asthma
	(C) Atopic May	(D) Food allergy
096.	Which of the anti-asthmatic drugs can cause	candidiasis of the larynx and laryngeal myopathy?
	(A) Aminophylline	(B) Montelukast
	(C) Prednisolone	(D) Cromoglycate
097.	Which of the following is the most importan gravis?	t cause for type II respiratoryfailure in myasthenia
	(A) Increased resistance to ventilation	(B) Pulmonary vasoconstriction
	(C) Increased vagal stimulation of pontine of	centers (D) Early fatigue of inspiratory muscles
098.	What is an important cellular source of M Asthma?	latrix protein deposition in the sub epithelium in
	(A) Myofibroblast	(B) Proteoglycan
	(C) Heparan sulphate	(D) None of the above
099.	is a globulin (protein) produced b materials.	y B cells as a defense mechanism against foreign
	(A) Antigen	(<mark>B)</mark> Antibody
	(C) Mast cell	(D) Basophil
100.	The term implies a familial tenden urticaria, and eczematous dermatitis.	cy to manifest such conditions as asthma, rhinitis,
	(A) Tropical allergy	(B) Atopic allergy
	(C) Sensitization	(D) Exocytosis
101.	According to American European Consensus conference criteria for acute lung injury and ARDS definition of hypoxemia in ALI and ARDS respectively	
	(A) Pao2/fio2<=300 mmhg and pao2 / fio2<	=100mmhg
	(B) Pao2/fio2<=200 mmhg and pao2 / fio2<	=300mmhg
	(C) Pao2/fio2<=300 mmhg and pao2 / fio2<	=200mmhg
	(D) None of the above	
102.	Definition of severe ARDS	
	(A) Pao2/fio2<=200 mmhg	(B) Pao2/fio2<=300 mmhg
	(C) Pao2/fio2<=100 mmhg	(D) Pao2/fio2<=400 mmhg
103.	Non infectious cause of ARDS	
	(A) Diffuse bacterial pneumonia	(B) Pneumocytitis jiroveci pneumonia
	(C) Acute eosinophilic pneumonia	(D) Miliary tuberculosis
104.	Injury due to repetitive opening and closing called as	ng of alveoli during inspiration and expiration is
	(A) Vol-trauma	(<mark>B)</mark> Ateleta-trauma
	(C) Bio-trauma	(D) Baro-trauma
105.	Target paco2 according to recent ARDS ma	nagement guidelines
	(A) 65-80 mmhg	(B) 55-75 mmhg
	(C) 55-90 mmhg	(D) 55-80 mmhg

106.	Target SPO2 according to recent ARDS management guidelines	
	(A) 80-90%	(B) 85-90%
	(<mark>C)</mark> 88-95%	(D) 85-98%
107.	Target SPO2 according to recent ARDS man	agement guidelines
	(A) 7.30-7.40	(B) 7.25-7.35
	(C) 7.35-7.45	(D) 7.30-7.45
108.	Differential diagnosis of ARDS include all ex	cept
	(A) Pulmonary edema	(B) Leukemic infiltration
	(C) Bronchial Asthma	(D) Sarcoidosis
109.	According to latest ARDS management guide	elines Tidal volume should be maintained
	(<mark>A)</mark> <= 6ml/Kg PBW	(B) <= 5ml/Kg PBW
	(C) <= 7ml/Kg PBW	(D) <= 4ml/Kg PBW
110.	Most common low molecular weight agent c	ausing Occupational Asthma
	(A) Metals	(B) Isocynates
	(C) Persulfate salts	(D) Quaternary ammonium compounds
111.	Main cytokine action in production of eosing	phils
	(A) IL 6	(B) IL 7
	(C) IL 5	(D) IL 8
112.	Dose of corticosteroids in treatment of Idiop	athic Chronic Eosinophilic Pneumonia
	(<mark>A)</mark> 20-60 mg /day	(B) 30-60 mg /day
	(C) 20-50 mg /day	(D) 30-50 mg /day
113.	'Finger in Glove' appearance is seen in HRC	T of
	(A) ARDS	
	(B) Allergic Bronchopulmonary Aspergilosis	
	(C) Idiopathic Chronic Eosinophilic Pneumonia	
	(D) ILD	
114.	Tropical pulmonary eosinophilia is caused by	y mainly
	(A) Wucheria Bancrofti	(B) Trichuris Trichura
	(C) Enterobia Vermicularis	(D) Entamoeba Histolytica
115.	According to Cottin and Cordier diagnostic and classification criteria for esoinophilic granulomatosis with polyngitis	
	(A) Peripheral blood eosinophilia > 1500 /mm	n3 and aveolar eosinophilia >25 %
	(B) Peripheral blood eosinophilia > 1000 /mm	n3 and aveolar eosinophilia >25 %
	(C) Peripheral blood eosinophilia > 1500 /mm	n3 and aveolar eosinophilia >35 %
	(D) Peripheral blood eosinophilia > 1000 /mm	n3 and aveolar eosinophilia >35 %
116.	Primary classification of bulla include all exe	cept
	(A) Vanishing lung syndrome	(B) Single giant bulla
	(C) Bullous lung disease	(D) Emphysema
117.	Bulla found at lung apices and along edges o	f lingulas and middle lobe catergorised as
	(A) Type I	(B) Type II
	(C) Type III	(D) None of the above

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118.	What happen to total lung capacity in bullous disease?	
	(A) Increases	(B) Decreases
	(C) Normal	(D) None of the above
119.	Size of lung bleb	
	(<mark>A)</mark> 1-2 cm	(B) 2-5 cm
	(C) 2-10 cm	(D) < 1 cm
120.	Familial disorders associated with bullous di	sease are all except
	(A) Alpha 1 antitrypsin deficiency	(B) Ehler danlos syndrome
	(C) Marfan syndrome	(D) Patau syndrome
121.	Sensory nerve ending in alveolar walls are ca	alled
	(A) B receptor	(B) C receptor
	(C) G receptor	(D) J receptor
122.	Periodic breathing characterized by slowly every 40 to 60 sec is called	waxing and waning respiration occurring about
	(A) Biots Breathing	(B) Kussmauls Breathing
	(C) Cheyne Stokes Breathing	(D) Hyperventilation
123.	Afferent nerve fibre from carotid bodies	
	(A) Vagus	(B) Glossopharyngeal
	(C) Facial	(D) Hypoglossal
124.	Pneumotaxic centers are located in	
	(A) Upper pons	(B) Middle pons
	(C) Lower pons	(D) None of the above
125.	Change in pao2, paco2, ph in exercise	
	(A) Pao2 increases, PaCo2 increases, PH same	
	(B) Pao2 increases, PaCo2 increases, PH inc	reases
	(C) Pao2 decreases, PaCo2 increases, PH same	
	(D) Remains almost same	
126.	Difference between the alveolar and pleural	pressures is termed as
	(A) Transthoracic pressure	(B) Transpulmonary pressure
	(C) Trans alveolar pressure	(D) Trans bronchial pressure
127.	A flow volume loop is showing plateauing of t	the inspiratory loop only. The most likely cause is:
	(A) Fixed extra-thoracic obstruction	(B) Variable extra-thoracic obstruction
	(C) Fixed intra-thoracic obstruction	(D) Variable intra-thoracic obstruction
128.	Which among the following is the most patho	ognomic radiologic Sign of ABPA?
	(A) Central bronchiectasis	(B) High attenuation mucus
	(C) Gloved finger sign	(D) Fleeting shadows
129.	Calcification in mediastinal neuroblastoma i	s
	(A) Rare	(B) Seen in 50%
	(C) Seen in 80%	(D) Usually do not calcify
130.	Which of the following is a late manifestation	n of OP poisoning?
	(A) Bradycardia	(B) Extra-pyramidal manifestations
	(C) Peripheral neuropathy	(D) Coma

131.	Which of the following is a Janus kinase inhibitor?	
	(A) Toclizumab	(B) Baricitinib
	(C) Anakinra	(D) Infliximab
132.	In castlemans disease HHV 8 is implicated in	a patho genesis of
	(A) Multicentric disease	(B) Unicentric disease
	(C) Both (A) and (B)	(D) Not associated
133.	GAP score is used as a mortality predictor in	n which condition?
	(A) Idiopathic pulmonary fibrosis	(B) COPD
	(C) Asthma	(D) None of the above
134.	Most common location for ectopic parathyro	id tumour is
	(A) Anterior mediastinum	(B) Posterior mediastinum
	(C) Chest wall	(D) None of the above
135.	Oral drug ivacaftor is used in the treatment	of
	(A) Lymphangioleiomyomatosis	(B) Pulmonary Alveolar Proteinosis
	(C) Cystic Fibrosis	(D) Sarcoidosis
136.	All are used in tobacco smoking cessation ex	cept
	(A) Nicotine replacement therapy	(B) Bupropion
	(C) Varenicline	(D) E-cigarette
137.	Regarding Bedaquiline which is FALSE	
	(A) Belongs to the diarylquinoline class	
	(B) Targets the rpob gene encoding the subu	nit C of the ATP synthase of
	(C) Mycobacterium tuberculosis	
	(D) Binds to the oligomeric and proteolipic s	ubunit c of mycobacterial atp synthase
138.	A 12 year old boy presented with elevated swe Aeruginosa pneumonia. What condition is th	eat chloride, with recurrent bouts of Pseudomonas. is patient susceptible to?
	(A) Chronic Bronchitis	(B) Bronchiectasis
	(C) Pneumonia	(D) Pericarditis
139.	Which of the following is most commonly as	sociated with bronchiectasis?
	(A) Post infection	(B) Primary ciliary dyskinesia
	(C) Alpha-1 antitrypsin deficiency	(D) Congenital structural deformity
140.	Following is an not endpoint of atropinisation	n in OP poisoning ?
	(A) Dry axilla	(B) SBP> 80 mmhg
	(C) Clear chest	(D) Miosis
141.	Rounded atelectasis is a complication of	
	(A) Silica	(B) Asbestos
	(C) Beryllium	(D) Coal
142.	In chronic beryllium disease, the following is	seen
	(A) Parotid involvement	(B) Bone changes
	(C) Posterior Uveitis	(D) Liver involvement
143.	According to ILO classification, the silicotic	opacities belong to
	(A) P	(B) Q
	(C) Q and R	(D) R

144.	Group B drugs in MDR regimen are all ex	Group B drugs in MDR regimen are all except	
	(A) Terizidone	(B) Clofazimine	
	(C) Linezolid	(D) Cycloserine	
145.	All are included for shorter oral bedaquil	ine regimen except	
	(A) H resistance detected based on INHA	mutation only or KATG mutation only	
	(B) H resistance detected based on both INHA mutation and KATG mutation		
	(C) FQ resistance not detected		
	(D) No extensive TB		
146.	Antiretrovirals safe to use with bedaquiling	ne	
	(A) Zidovudine	(B) Efavirenz	
	(C) Ritonavir	(D) Lopinavir and Zidovudine	
147.	QT prolongation is caused by all except		
	(A) Cycloserine	(B) Bedaquiline	
	(C) FQ	(D) Clofazimine	
148.	Indications of bronchial thermoplasty		
	(A) Acute asthma	(B) COPD	
	(C) Chronic asthma	(D) Acute airway hyperresponsiveness	
149.	Thrombosis and thromboembolism in CO	VID -19 is cause by	
	(A) Severe immunothrombosis state	(B) Elevation of von wilibrand factors	
	(C) Activation of complements	(D) All of the above	
150.	The entry of SARS COV-2 is through		
	(A) Epithelial cells expressing ACE2 rece	ptor	
	(B) Endothelial cells expressing ACE2 rec	reptors	
	(C) Both (A) and (B)		
	(D) None of the above		
151.	The most common congenital deformity o	f chest wall	
	(A) Kyphoscoliosis	(B) Pectus carinatum	
	(C) Pectus excavatum	(D) Rachitic rosary	
152.	Most common cause of diaphragmatic pa	ralysis	
	(A) Trauma	(B) Mediastinal tumors	
	(C) Infections of pleural space	(D) Phrenic nerve injury in open heart surgery	
153.	Rolled or holly leaf pattern on cxr is seen in		
	(A) Silicosis	(B) Byssinosis	
	(C) Asbestos Exposure	(D) Bagassosis	
154.	The impairment system in which the worl	kers cannot sue the employer for injury or illness	
	(A) social security impairment	(B) worker's compensation system	
	(C) ESI	(D) None of the above	
155.	Any loss or abnormality of psychological, called	, physiologic or anatomical structure and function is	
	(A) Impairment	(B) Disability	
	(C) Handicap	(D) Total Disability	

156.	56. A 40 years old male develops excessive hyperventilation. ABG reveals pH = 7.5, PCO2 PO2 88 mm of Hg :		
	(A) Respiratory alkalosis	(B) Metabolic alkalosis	
	(C) Respiratory acidosis	(D) Metabolic acidosis	
157.	Causative agent of farmer's lung is		
	(A) Thermophillus actinomycetes	(B) Aspergillus	
	(C) Penicillium glabrum	(D) Rhizopus	
158.	Hot tub lung is related to		
	(A) Isocyanates	(B) Mycobacterium avium complex	
	(C) Molds in air conditioners	(D) Legionella	
159.	What treatment is most appropriate for pulmonary alveolar proteinosis?		
	(A) Whole lung lavage	(B) Prednisone	
	(C) Prednisone and cyclophosphamide	(D) Bronchial thermoplasty	
160.	Three-layered sputum seen in		
	(A) Klebsiella pneumonia	(B) Silicosis	
	(C) CA lung	(D) Bronchiectasis	
161.	False statement regarding Criteria for Dia	False statement regarding Criteria for Diagnosis of ABPA	
	(A) Episodic bronchial asthma		
	(B) Peripheral blood eosinophilia (>1000/	(B) Peripheral blood eosinophilia (>1000/mm3)	
	(C) Elevated serum IgE levels (>1000ng/ml)		
	(D) Peripheral bronchiectasis on Chest CT scans		
162.	The average time of exposure to someone	with active TB until acquisition of infection is about	
	(A) two hours	(B) two days	
	(C) two weeks	(D) two months	
163.	Nucleic acid amplification (NAA) tests for	the diagnosis of TB	
	(A) Are not approved by the FDA.		
	(B) Require more than one month for results.		
	(C) May not be used with smear-positive specimens.		
	(D) Are able to differentiate between different species of M. tuberculosis.		
164.	Chemoprophylaxis is recommended for all of the following groups of people with a positive tuberculin test of 6 mm, EXCEPT:		
	(A) Children older than 4 years of age		
	(B) Persons with known or suspected HIV infection		
	(C) Close contacts of persons with infectious, clinically active TB		
	(D) Persons who inject drugs and who are known to be HIV negative		
165.	O2 delivery to tissues depends on all except		
	(A) Type of fluid administered	(B) Hemoglobin	
	(C) Ventilation	(D) Cardiac output	

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166. The Oxygen-haemoglobin dissociation curve is sigmoid shape because		is sigmoid shape because	
	(A) Binding of one O2 molecule increases the affinity of binding of subsequent O2 molecules		
	(B) Binding of one O2 molecule decreases th	e affinity of binding of subsequent O2 molecules	
	(C) Bohr effect		
	(D) Haldane effect		
167.	Which method can be used to measure or estimate pulmonary hypertension?		
	(A) Systemic blood pressure put into the mo	dified Bernoulli's equation	
	(B) Cardiac catheterization for direct measu	irement	
	(C) Velocity of mitral regurgitation during e	echocardiography	
	(D) Velocity of tricuspid regurgitation during echocardiography		
168.	Which of the following is correct for the par	ich of the following is correct for the partial pressure of oxygen in alveoli?	
	(A) Less than carbon dioxide	(B) Less than the blood	
	(C) More than the blood	(D) Equal to that of the blood	
169.	Which drug/intervention is of no proven b	enefit in management of acute severe asthma in	
	adults?		
	(A) Steroids	(B) Magnesium	
	(C) CPAP	(D) Aminophylline	
170.	Miliary TB on CT scan has:		
	(A) Peribronchial distribution of lesions		
	(B) Lesions randomly distributed measuring	1-2 mm	
	(C) Small granulomas with satellite lesions		
	(D) Small nodules with caseation		
171.	Most common presenting symptom in bullou	is lung disease is	
	(A) Gradually progressive exertional dyspne	a	
	(B) Chest pain		
	(C) Hemoptysis		
	(D) Cough		
172.	Bullous lung disease occurs in all except		
	(A) Marfans syndrome	(B) Ehlers Danlos syndrome	
	(C) Fabry's disease	(D) Neimann pick syndrome	
173.	Which of the following is not a component o	f the TB bacterial cell wall?	
	(A) Lipoarabinomannan	(B) Mycolic Acid	
	(<mark>C)</mark> Galactomannan	(D) Arabinogalactan	
174.	Which of the following NAA test is used in d	letection of resistance to rifampicin and INH?	
	(A) AMPLICOR	(B) AMTD	
	(C) BDP	(D) Geno Type MTBDR	
175.	Body plethysmography is used to measure		
	(A) Lung residual volume (RV)	(B) Total lung capacity (TLC)	
	(C) FRC	(D) All of the above	
176.	Which of the following is known as marker	of "gas trapping"?	
	(A) Residual Volume	(B) FRC	
	(C) TLC	(D) IRV	

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177.	77. Best Method among the following to measure FRC	
	(A) Multi-breath He dilution measurement	(B) Nitrogen washout
	(C) Body plethysmography-	(D) PFT
178.	178. Which of the following preoperative risk reduction strategies optimize the chance of a outcome ?	
	(A) Smoking Cessation	(B) Regional Anesthesia
	(C) Mobilization	(D) Decrease duration of surgery
179.	Patient is high risk for a pneumonectomy	
	(A) Preoperative FEV1 and the DLCO are ≥	80% predicted normal
	(B) Predicted post pneumonectomy FEV1 <3	0 % predicted normal
	(C) Preoperative FEV1 or the DLCO are <80	0% Normal
	(D) Preoperative FEV1 and DLCO >90 % p	redicted normal
180.	Which of the following Values is increased in Bullous emphysema ?	
	(A) Alveolar–arterial difference in pao2	(B) DLCO
	(C) Arterial oxygenation with exercise	(D) Ratio of tidal volume to dead space
181.	Which of the following is a contraindication	for a classical Bullectomy?
	(A) Young age	(B) Pulmonary HTN
	(C) FEV1>90 %	(D) "high" trapped lung volume
182.	The gaseous exchange in alveoli is a type of	
	(A) Simple diffusion	(B) Osmosis
	(C) Active transport	(D) Passive transport
183.	Antitb drug that has bacteriociddal and ster	ilizing effect on tissue is:
	(A) Rifampicin	(B) INH
	(C) Ethambutol	(D) Pyrazinamide
184.	Most common pulmonary reaction associated	d with aspirin use
	(A) ARDS	(B) Bronchospasm
	(C) Vasculitis	(D) Hemoptysis
185.	Which of the following drugs produce clinica	l presentation similar to Goodpasture syndrome?
	(A) NSAIDS	(B) Methotrexate
	(C) D- Pencillamine	(D) Beta blockers
186.	Which autoantibody is specific in MCTD ?	
	(A) Scl-20	(B) Ds DNA
	(C) Sm	(D) U1-RNP
187.	Which of the following is not a feature in Scl	eroderma ?
	(A) Sclerodactyly	(B) Gottron papules
	(C) Raynauds phenomenon	(D) Salt and pepper pigmentation
188.	Most frequent radiological pattern in CTD-I	LD is ?
	(A) NSIP	(B) UIP
	(C) LIP	(D) OP
189.	MCTD is identified by the presence of features of all of the following except ?	
	(A) SLE	(B) Ssc
	(C) C.PM	(D) RA

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190.	90. Which of the following is not true regarding Anti synthetase Syndrome ?		
	(A) Positive anti-t RNA antibody	(B) Pulmonary manifestation as ILD	
	(C) Most specific to SLE	(D) Seen in PM and DM	
191.	Which is not characteristic of Sjogrens Synd	Which is not characteristic of Sjogrens Syndrome ?	
	(A) Malar rash	(B) Dry eyes (Kerato conjunctivitis Sicca)	
	(C) Dry mouth (Xerostomia)	(D) Positive Ro(SS-A) / La(SS-B)	
192.	Which is never required in diagnosis of SSC-	-ILD ?	
	(A) HRCT	(B) Autoantibodies	
	(C) PFT and DLCO	(D) Biopsy	
193.	What is the most common radiological pattern in RA-ILD ?		
	(A) NSIP	(B) OP	
	(C) UIP	(D) LIP	
194. Which among following is not a classical feature of SLE ?		ture of SLE ?	
	(A) Malar rash	(B) Positive anticentromere antibody	
	(C) Photosensitivity	(D) Positive ds DNA	
195.	Which is not classical of Dermatomyositis ?		
	(A) Gottrons papules	(B) Heliotrope rash	
	(C) Raynauds phenomenon	(D) Positive anti t-RNA antibody	
196.	Which is a wrong statement regarding CPET ?		
	(A) Can be done to assess preoperative risk		
	(B) Can be done to assess exercise capacity		
	(C) Useful to determine cause of unexplained	l shortness of breatrh	
	(D) Can be done in patients with hypoxia by	administering supplemental oxygen	
197.	Parameters in CPET are all except		
	(A) Vo2	(B) RER	
	(C) VD/VT	(D) FEV1	
198.	Which is wrong statement regarding CPET	?	
	(A) Can be done within 10 days of MI		
	(B) Can be used for risk stratification before surgery		
	(C) Can be used for prognosticating outcomes		
	(D) Can be used for evaluation of dyspnoea		
199.	Which among below is not a method used to assess CPET ?		
	(A) Invasive treadmill test	(B) Non invasive treadmill test	
	(C) 6MWT	(D) Cycle ergometer	
200.	Which of the variable is not seen in CPET g	caphs ?	
	(A) Cardiac Index	(B) VO2	
	(C) VCO2	(D) FEV1/FVC	