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5.

1. The most important inspiratory muscle of the respiratory system: (A) Sternocleidomastoid (B) External intercostal muscle (C) Internal intercostal muscle (D) Diaphragm 2. Identify the bone which is part of the thoracic cage: Radius (B) Sternum (C) Femur (D) Tibia 3. Primary site of gas exchange in the lungs: Trachea (B) Pleura (C) Alveoli (D) Bronchi 4. Most common organ affected by tuberculosis in human body: (A) Lungs (B) Heart (C) Brain (D) Liver

Maximum: 100 marks

6. Maximum number of oxygen molecules that can be carried by a haemoglobin molecule:

(B)

(D)

Peritoneum

Synovium

(A) One(B) Two(C) Three(D) Four

7. Volume of air inhaled or exhaled during a normal respiration is known as:

(A) Tidal volume

Membrane covering the lungs:

Pleura

(C) Meninges

(A)

(B) Vital capacity

(C) Inspiratory reserve volume

(D) Inspiratory capacity

A 3

Time: 1 hour and 30 minutes

8.	Oxygen is transported in blood bound to:							
	(A)	Haptoglobin	(B)	Myoglobin				
	(C)	Haemoglobin	(D)	Haemosiderin				
9.	The site w	where oxygen is utilised in the huma	ın body is	:				
	(A)	Lungs	(B)	Heart				
	(C)	Cells	(D)	Blood				
10.	Oxygen is	transported in the blood by :						
	(A)	Red blood corpuscle	(B)	White blood corpuscle				
	(C)	Platelet	(D)	Neutrophil				
11.	Silicosis is	s associated with increased risk of :						
	(A)	Malaria	(B)	Tuberculosis				
	(C)	Filariasis	(D)	Amoebiasis				
12.	Particulat	te size of air pollutants causing grea	itest harn	n to human health :				
	(A)	particulate size < 2.5 μ m in diame	eter					
	(B)	particulate size > 5 μ m in diameter	er					
	(C)	particulate size > 10 μ m in diame	eter					
	(D)	particulate size > 25 μ m in diame	eter					
13.	All are air	r pollutants except :						
	(A)	Sulphur dioxide	(B)	Carbon monoxide				
	(C)	Nitric oxide	(D)	Nitrogen				
14.	Which of	the following statements is correct?						
	(A)	Bagassosis is an occupational lung	g disease					
	(B)	Bagassosis is caused by tobacco sn	noking					
	(C)	Bagassosis is a lung disease cause	d by tube	rculosis				
	(D)	Bagassosis is a lung disease cause	d by drow	vning				
15.	Lung dise	ase caused by sandblasting :						
	(A)	Silicosis	(B)	Bagassosis				
	(C)	Ashesosis	(D)	Siderosis				

16.	Main sym	ptom of patient with occupational lun	g disea	ses:			
	(A)	Chest pain	(B)	Breathlessness			
	(C)	Sputum production	(D)	Haemoptysis			
17.	Measures	taken to reduce vehicular air pollutio	n inclu	de all of the following except :			
	(A)	Use of leaded petrol					
	(B)	Phasing out of old vehicles					
	(C)	Application of stringent pollution con	ntrol no	orm in vehicles			
	(D)	Reducing the sulphur and aromatic of	content	t in petrol and diesel			
18.	Rich sour	ce of protein for TB patients include al	ll excer	ot:			
	(A)	Milk	(B)	Rice			
	(C)	Egg	(D)	Fish			
19.	Food to be	e avoided by TB patients include all ex	cept:				
	(A)	Alcohol in any form	(B)	Carbonated drink			
	(C)	Excess tea and coffee	(D)	Milk and eggs			
20.	Most impo	ortant risk factor for tuberculosis in Ir	ndia :				
	(A)	HIV	(B)	Diabetes Mellitus			
	(C)	Smoking	(D)	Undernutrition			
21.	Undernutrition can be due to deficit in intake of:						
	(A)	Calories	(B)	Protein			
	(C)	Micronutrient	(D)	All of the above			
22.	Recomme	nded nutritional counselling for TB pa	ıtient i	s intake of :			
	(A)	Tonics					
	(B)	Exotic imported fruits like kiwi					
	(C)	Locally available nutrient rich food					
	(D)	Commercial food supplement					
23.	Means of	artificial respiration includes all of the	e follow	ving except :			
	(A)	mouth to mouth breath	(B)	bag mask ventilation			
	(C)	mechanical ventilation	(D)	inhaler therapy			

24.	Ratio of cl	nest compression to artificial breaths	in card	iopulmonary resuscitation :
	(A)	30:2	(B)	60:2
	(C)	90:2	(D)	100:2
25.	Steps in n	nouth to mouth breathing include all o	of the f	ollowing except :
	(A)	Tilting back the head of the victim		
	(B)	Pinching the nose of the victim		
	(C)	Blowing breath 5 inches above the m	nouth o	f the victim
	(D)	Sealing the rescuers mouth over the	victim	s mouth
26.	Immediat	e cause of death in drowning :		
	(A)	Aspiration of water into stomach		
	(B)	Aspiration of water into larynx/lung	s	
	(C)	Limb injury		
	(D)	None of the above		
27.	Resuscita	tion of drowning victims include all of	the fol	lowing except :
	(A)	Move the person out of water		
	(B)	Chest compression		
	(C)	Warming with clothes or blankets		
	(D)	Abdominal compression to remove w	ater fr	om stomach
28.	Number o	f chest compressions to be done per m	inute v	when resuscitating drowning victims :
	(A)	75 / minute	(B)	30 / minute
	(C)	60 / minute	(D)	100-120 / minute
29.	Resuscita	tion of drowning victims include all of	the fol	lowing except :
	(A)	calling for help when you are the lon	ne rescu	ner
	(B)	bringing out the victim from water swimmer	er by y	ourself when you are not a confident
	(C)	check for spontaneous breath		
	(D)	start cardiopulmonary resuscitation breath	n as ea	arly as possible if there is no pulse or

- **30.** Artificial respiration can be given in which location:
 - (A) In well equipped intensive care unit
 - (B) In primary health centres
 - (C) At any place by a trained person
 - (D) All of the above
- **31.** What is the ideal location for sputum collection?
 - (A) Inside the doctor's clinic
 - (B) Inside the laboratory
 - (C) Outdoors or in a well ventilated area
 - (D) The patient's bathroom with the door closed
- **32.** Which of the following constitutes a good sample for sputum microscopy?
 - (A) 5 ml of muco-purulent sputum
 - (B) 5 ml of clear saliva
 - (C) 2 ml of sputum in a washed food container
 - (D) All of the above
- 33. Before the TB health visit is finished, the patient's wife notes that the TB patient has started drinking alcohol heavily again (around 7 or 8 drinks a day) after years of sobriety and asks for you to provide advice about the patient's alcohol use disorder. What should you advise?
 - (A) Identify triggers of his alcohol use (including peer pressure from friends) and recommend strategies for minimizing contacts with these triggers
 - (B) Tell him that he is at fault for his drinking and state that you will no longer see him at follow-up visits unless he stops drinking
 - (C) Advise him to eat before drinking to blunt the effects of the alcohol
 - (D) (A), (B) and (C)
- **34.** Which of the following is true of under nutrition and TB?
 - (A) Under nutrition is a risk factor for TB
 - (B) Tuberculosis can lead to under nutrition
 - (C) Under nutrition is associated with adverse outcomes in TB patients
 - (D) All of the above

35.	Wha	at is tl	ne theme of World Tuberculosis Day	2022?			
		(A)	Invest to End TB. Save Lives	(B)	The Clock is Ticking		
		(C)	It's TIME	(D)	It's time to end the stigma		
36.	Whi	ch on	e of the following statements is corre	ct about	TB?		
	(i)	Peop	ole suffering from HIV are prone to a	cquire t	uberculosis.		
	(ii)	DOT	TS is a Directly Observed Treatment,	Short co	ourse.		
	(iii)	In a	nti-tuberculosis treatment, hepatitis	or liver	disease is a common side effect.		
	(iv)	Med	ication for DRUG SENSITIVE TB is	adminis	stered for 6 to 8 months.		
		(A)	Only (ii) is correct	(B)	(i) and (ii) are correct		
		(C)	(ii) and (iv) are correct	(D)	(i), (ii), (iii) and (iv) are correct		
37.	Wha	at are	the features of the people suffering f	rom late	nt tuberculosis infection?		
		(A)	Have no symptoms				
		(B)	Patient feel sick				
		(C)	Spread TB bacteria to others				
		(D)	Patients have a positive chest X-ray	y for TB			
38.	Wor	ld He	alth Organization recommended a co	ntrol str	rategy for TB known as :		
		(A)	DOTS	(B)	Gene therapy		
		(C)	Morphine	(D)	MCT		
39.	At which place the cause for the disease Tuberculosis was announced?						
		(A)	The Institute of Physiology, Berlin				
		(B)	University of British Columbia				
		(C)	California Institute of technology				
		(D)	At Geneva, Switzerland				
40.	Whi	ch of	the following statement is / are corre	ct?			
	(i)	Dr. I	Robert Koch discovered a bacillus in	1882 tha	at causes TB.		
	(ii)	Mai	nly TB affects the lungs.				
	(iii)	TB i	s among the top 3 causes of death for	women	aged 15 to 44.		
	(iv)	Sym	ptoms of TB are fever, night sweat, v	veight lo	oss, etc.		
	Opti	ions a	re:				
		(A)	(i) and (iii)	(B)	(ii) and (iv)		
		(C)	(i), (iii) and (iv)	(D)	(i), (ii), (iii) and (iv)		

41.	Name the causal organism that is responsible for causing TB:						
	(A)	Bacteria	(B)	Virus			
	(C)	Protozoa	(D)	None of the above			
42.	World Tu	berculosis Day is observed on :					
	(A)	24 March	(B)	24 April			
	(C)	7 April	(D)	14 November			
43.	National	Tuberculosis Institute is located in	n :				
	(A)	New Delhi	(B)	Nagpur			
	(C)	Bengaluru	(D)	Thiruvananthapuram			
44.	A patient	taking Isoniazid (INH) should be	monitored f	for what deficiency?			
	(A)	Vitamin C	(B)	Calcium			
	(C)	Vitamin B6	(D)	Potassium			
45.		with active tuberculosis is taking assess the patient's?	ng Ethambu	atol. As the health visitor you make it			
	(A)	hearing	(B)	mental status			
	(C)	vitamin B6 level	(D)	vision			
46.		your patient's sweat and urine is h medication below is causing this		u reassure the patient and educate him			
	(A)	Ethambutol	(B)	Streptomycin			
	(C)	Isoniazid	(D)	Rifampin			
47.	Your patient, who is receiving Pyrazinamide, report stiffness and extreme pain in the right big toe. The site is extremely red, swollen and warm. You notify the physician and as the health visitor you anticipated the doctor will order?						
	(A)	Calcium level	(B)	Vitamin B6 level			
	(C)	Uric acid level	(D)	Amylase level			
48.	As the TB health visitor, you know that one of the reasons for an increase in multi-drug resistant tuberculosis is:						
	(A)	Incorrect medication ordered					
	(B)	Immigration of patients from common	areas of the	he world where drug-resistant TB is			
	(C)	Noncompliance due to duration	of medication	on treatment needed			
	(D)	All the above					

49.	You're teaching a group of long-term care health givers about the signs and symptoms of tuberculosis. What signs and symptoms will you not include in your education?							
	(A)	Cough	(B)	Night sweats				
	(C)	Weight gain	(D)	Hemoptysis				
50.	Which no	n-communicable disease is strongly as	sociate	d with TB?				
	(A)	Hypertension	(B)	Diabetes Mellitus				
	(C)	Stroke	(D)	Dyslipidemia				
51.	What is ca	ausing TB to become a serious public h	ealth j	problem?				
	(A)	(A) The rise in number of people with HIV infection						
	(B)	An increasing number of immigrants	from	areas of the world where TB is common				
	(C)	People who don't take their TB treat	ment c	orrectly				
	(D)	All of the above						
52.	How is TI	3 treated?						
	(A)	Antiviral medicines	(B)	Antibiotics				
	(C)	Surgery	(D)	Radiotherapy				
53.	MDR TB	is resistant to at least which two drugs	s?					
	(A)	Isoniazid and Pyrazinamide						
	(B)	Rifampicin and Isoniazid						
	(C)	Streptomycin and Ethambutol						
	(D)	Streptomycin and Bedaquiline						
54.	How can '	ΓB be diagnosed?						
	(A)	Chest X-ray	(B)	Sample of sputum				
	(C)	Skin or blood test	(D)	All of the above				
55.	Currently	, TB control activities in India are spe	arhead	led by which National Programme?				
	(A)	Revised National TB Control Program	mme (l	RNTCP)				
	(B)	National TB Elimination Programme	e (NTE	P)				
	(C)	National TB Control Programme						
	(D) National Programme for Prevention and Control of TB							

	(C)	Jaundice	(D)		
	(11)		(1)	Hepatitis	
~•	(A)	Malaria	(B)	Tuberculosis	
61.	The BCG	vaccine is administered for immuni	ty agains	t complications of ·	
	(D)	none of these			
	(C)	both (A) and (B)	•		
	(B)	to decrease the resistance of the en	ntity to th	ne treatment	
	(A)	to generate a better response			
60.	A combin	ation of medications which are appli	ied to trea	at tuberculosis is :	
	(C)	Through contaminated food	(D)	(A) and (C)	
	(A)	Through the air	(B)	Through sexual contact	
59.	How do yo	ou get TB?			
	(D)	(A) and (C)			
	(C)	The disease may take years to bec	ome activ	re	
	(B)	Symptoms come and go			
	(A)	Symptoms aren't always obvious			
58.	What mal	kes TB hard to diagnose?			
	(D)	Activist Social Health Provider			
	(C)	Associated Social Health Activist			
	(B)	Accredited Social Health Activist			
	(A)	Accredited Social Health Worker			
57 .	ASHA sta	ands for :			
	(D)	Intermediate Research Laboratory	J		
	(C)	Designated microscopy centre			
	(B)	District TB centre			
	(A)	Suraksha Clinic			

56. Pick the odd one out in terms of TB management and control in India:

63.	Which of	these is the culture medium for causati	ve org	anism of tuberculosis?
	(A)	Löwenstein-Jensen medium		
	(B)	Wilson blair medium		
	(C)	Mac Conkey's medium		
	(D)	None of the above		
64.	The perso	n who discovered causative organism o	f tube	rculosis was :
	(A)	Louis Pasteur	(B)	Robert Koch
	(C)	Edward Jenner	(D)	None of the above
65 .	NRHM st	ands for :		
	(A)	National Rural Health Mission		
	(B)	National Remote Health Mission		
	(C)	National and Regional Health Manag	ement	t
	(D)	None of these		
66.	Govt. of I	India launched a web based portal/Apportal:	op for	notification of Tuberculosis in India.
	(A)	MCTS	(B)	Nikshay
	(C)	Nischay	(D)	Arogya Setu
67.	The term	"Elimination of TB" is defined as:		
	(A)	Less than 1 TB case per million/year		
	(B)	Less than 10 TB cases per million/yea	ır	
	(C)	Less than 100 TB case per million/yea	ar	
	(D)	Less than 500 TB case per million/yea	ar	
68.	The Dilue	ent used for reconstituting BCG vaccine	is:	
	(A)	Normal Saline	(B)	Distilled water
	(C)	Ringer lactate	(D)	DNS
69.	Sputum c	an be disinfected by :		
	(A)	Autoclaving	(B)	Hypochlorite
	(C)	Cresol	(D)	All the above

70.	Starting around 1956, the ——— Experiment was carried out in India to determine whether treatment in a TB sanatorium provided any benefits as compared with treatment at home.							
		(A)	Bombay	(B)	Jaipur			
		(C)	Calcutta	(D)	Madras			
71.	Whi	ch of	the following are goals listed	in Sustainable	Development Goals?			
	(i)	No I	Poverty					
	(ii)	(ii) Industry, innovation and infrastructure						
	(iii)	Space	ce research infrastructure					
	(iv)	Resp	ponsible consumption and pro	oduction				
		(A)	Only (i) and (ii)					
		(B)	Only (i), (ii) and (iii)					
		(C)	Only (i), (ii) and (iv)					
		(D)	All of the above (i), (ii), (iii)	and (iv)				
72.	Which of the following statements is/are correct regarding the 'Sustainable Development Goal India Index'?							
	(i)	(i) It aims to measure India and its States' progress towards the SDGs						
	(ii)	(ii) Indicate the comparative performance of Indian states						
	(iii)	Pub	lished by NITl Ayog					
		(A)	Only (i)					
		(B)	Only (ii)					
		(C)	Only (i) and (ii)					
		(D)	All of the above (i), (ii) and	(iii)				
73.	The	SDGs	s are intended to be achieved	by the year:				
		(A)	2025	(B)	2030			
		(C)	2035	(D)	2050			
74.	The	total	number of goals in Sustainak	ole Development	Goal (SDG) are :			
		(A)	10	(B)	12			
		(C)	15	(D)	17			

75.	The central, transformative promise of the Sustainable Development Goals :								
		(A)	Leave no one behind						
		(B)	Development everywhere						
		(C)	Equity and equality						
		(D)	Health and development for all						
76.	Which diseases are targeted for elimination under National Vector Borne Diseases Control Programme (NVBDCP)?								
	(i)	(i) Malaria							
	(ii)	Fila	ria						
	(iii)	Kala	a Azar						
	(iv)	Den	gue						
		(A)	Only (ii)						
		(B)	Only (i) and (ii)						
		(C)	Only (i), (ii) and (iii)						
		(D)	All of the above (i), (ii), (iii) and (iv)						
77.	Whi	ch of	the following are the declared goal/goa	ls of T	B free India?				
	(i)	70%	reduction in the incidence						
	(ii)	80%	reduction in the incidence						
	(iii)	80%	reduction in mortality						
	(iv)	90%	reduction in mortality						
		(A)	Only (i)	(B)	Only (iii)				
		(C)	Only (ii) and (iii)	(D)	Only (ii) and (iv)				
78.	Leprosy elimination is defined as less than:								
		(A)	1 case per 10,000 population						
		(B)	1 case per 20,000 population						
		(C)	1 case per 50,000 population						
		(D)	1 case per 1,00,000 population						
79.	Kala	ı-azar	in India is caused by :						
		(A)	Pasturella pestis	(B)	Leishmania Donovani				
		(C)	Dracunculus medinensis	(D)	Wuchereria bancrofti				

		(A)	Diethyl Carbamezine	(B)	Albendazole
		(C)	Proguanil	(D)	Ivermectin
81.	_		e government guidelines, the following B screening among COVID positive pat	-	coms are parts of the symptom complex:
	(i)	Brea	thing difficulty		
	(ii)	Feve	er >2 weeks		
	(iii)	Sign	ificant weight loss		
	(iv)	Nigh	at sweats		
		(A)	Only (i) and (ii)	(B)	Only (ii) and (iii)
		(C)	Only (i), (ii) and (iii)	(D)	Only (ii) (iii) and (iv)
82.			creening for all diagnosed TB patient scalled:	s and	TB screening for all COVID-positive
		(A)	Bi-directional TB-COVID screening		
		(B)	Additional TB-COVID screening		
		(C)	Supplementary TB-COVID screening		
		(D)	Accelerated TB-COVID screening		
83.			enabled patient management system for on Programme :	тВс	ontrol under the National Tuberculosis
		(A)	Nikshay	(B)	Akshay
		(C)	Vikshay	(D)	Shikshay
84.	The	tests	recommended for diagnosing Tuberculo	sis in	India's National TB plan are :
	(i)	Ches	st X-Ray		
	(ii)	Sput	cum smear microscopy		
	(iii)	CB-1	NAAT		
	(iv)	Anti	-TB antibody serology		
		(A)	Only (i) and (ii)	(B)	Only (ii) and (iii)
		(C)	Only (i), (ii) and (iii)	(D)	Only (ii), (iii) and (iv)
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[P.T.O.]

Which among the following is not a drug for Mass Drug Administration (MDA) for filariasis?

85.	Which of the following disease/diseases is/are caused by coronaviruses?							
		(A)	SARS	(B)	MERS			
		(C)	COVID-19	(D)	All of the above			
86.	The	Naval	kerala mission seeks to address problen	ns fac	ed in the following social sectors:			
	(i)	Heal	lth					
	(ii)	Educ	cation					
	(iii)	Indu	estries					
	(iv)	Agri	culture					
		(A)	Only (i) and (ii)					
		(B)	Only (ii) and (iii)					
		(C)	Only (i), (ii) and (iii)					
		(D)	Only (ii), (iii) and (iv)					
87.	The	'Ardra	am mission' by the Government of Kera	la is a	aimed at improving the following:			
		(A)	Health facilities	(B)	Elderly care			
		(C)	Social pension	(D)	Palliative care			
88.	Whi	ch of t	the following is not a focus of the Harith	na Kei	rala mission?			
		(A)	Organic farming	(B)	Waste management			
		(C)	Road transport	(D)	Water resources			
89.	The	new i	nitiative in the second phase of the Nav	akera	ala Mission :			
		(A)	Rebuild Kerala					
		(B)	Life mission					
		(C)	Karunya scheme					
		(D)	Educational Rejuvenation					

90.	A target of the 'Sujalam suphalam' programme :								
		(A)	Water purification						
		(B) Organic farming							
		(C)	Piped water supply						
		(D)	Plastic waste management						
91.	The key administrative interventions for Airborne Infection Control (AIC) include :								
	(i)	Screening for respiratory symptoms							
	(ii)	Fast-tracking							
	(iii)	Education on cough etiquette							
	(iv)	y) Patient segregation							
		(A)	Only (i), (ii) and (iii)	(B)	Only (ii), (iii) and (iv)				
		(C)	Only (i), (iii) and (iv)	(D)	All of the above (i), (ii) (iii) and (iv)				
92.	Which of the following is true about an excellent N95 mask?								
	(i)	Close facial fit							
	(ii)	High fluid resistance							
	(iii)	Good Breathability							
	(iv)) Good thermal conduction							
		(A)	Only (i), (ii) and (iii)						
		(B)	Only (ii), (iii) and (iv)						
		(C)	Only (i), (iii) and (iv)						
		(D)	All of the above (i), (ii), (iii) and (iv)						
93.	HEPA filter is:								
		(A)	High-Energy Particulate Air filter						

- (B) High-Efficiency Particulate Air filter
- (C) Heat-Energy Preparatory Air filter
- (D) Heat-Efficient Particulate Air filter

94.	Diseases that spread through the airborne route include:							
	(i)	Influenza						
	(ii)	Measles						
	(iii)) Sleeping sickness						
	(iv)	Chic	ickenpox					
		(A)	Only (i), (ii) and (iii)					
		(B)	Only (i), (ii) and (iv)					
		(C)	Only (i), (iii) and (iv)					
		(D)	All of the above (i), (ii) (iii) and (iv)					
95.	Droplets are infectious particles of size:							
		(A)	<1 Micron	(B)	>1 Micron			
		(C)	<5 Micron	(D)	>5 Micron			
96.	The drug used for chemoprophylaxis against $H1N1$ Influenza among the close contacts of patients with $H1N1$ Influenza:							
		(A)	Zidovudine	(B)	Acyclovir			
		(C)	Oseltamivir	(D)	Didanosine			
97.	The work of breathing in humans is done by the:							
		(A)	Diaphragm	(B)	Arteries			
		(C)	Veins	(D)	Lymphatics			
98.	In C	In COVID-19 pneumonia, the lung alveoli get filled with:						
		(A)	Blood	(B)	Fluid			
		(C)	Lymph	(D)	CSF			
99.	The mid-and long-term effects after recovering from COVID-19 are collectively known as :							
		(A)	Enhanced COVID	(B)	Long COVID			
		(C)	Extended COVID	(D)	Unresolved COVID			
100.	The "corona" in coronavirus means :							
		(A)	Sun	(B)	Strong			
		(C)	Crown	(D)	Lungs			

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK