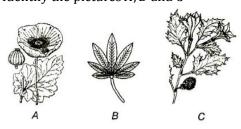
IMPORTANT PRACTICE QUESTION SERIES

- Black-foot disease is caused due to groundwater contaminated with excess of
 a) Nitrate
 b) Fluoride
 c) Arsenic
 d) Sulphur
- 2. Select the correct statement from the set given below
 - I. Growing number of people are taking LSD and other drugs like barbiturates and amphetamines $\,$
 - II. Several plants, fruits and seed having hallucinogenic properties have been used in folk-medicine

	Which of the statement	ts given above is/are cor	ract?			
	a) Only I	b) Only II	c) I and II	d) None of these		
3.	•	•	· ·	and nor-adrenaline. The		
J.	component causing thi		secretion of autenanne	and not durenamic. The		
	a) Nicotine	b) Tannic acid	c) Curaimin	d) Heamozoin		
4.	Alcoholism may leads t		o) darammi	d) Heamozom		
••	a) Skin cancer	b) Liver cirrhosis	c) Viral disease	d) Eye infections		
5.	Triple antigen vaccine	•	o, virai aisease	a, 2, e miconono		
	a) Typhoid	b) Tetanus	c) Diphtheria	d) pertussis		
6.	· · · · · · · · · · · · · · · · · · ·	ctive gene coding for the	· •	71		
	a) Adenosine transami		b) Guanosine transamir	nase		
	c) Adenosine deaminas		d) Guanosine deaminas			
7.	7. Charas and ganja generally taken by					
	a) Inhalation	b) Oral ingestion	c) Both (a) and (b)	d) Injection		
8.	Rat, carries rat fleas, w	hich are the causal organ	ism of			
	a) Typhus fever	b) Tick fever	c) Bubonic plague	d) Yellow fever		
9.	Amoebiasis is prevente	ed by				
	a) Eating balanced food	d	b) Eating washed fruits			
	c) Using mosquito coil		d) Drinking boiled water			
10. Morphine is						
	a) A very effective seda	tive and pain-killer				
	b) Very useful in patien	its who have undergone :	surgery			
	c) both (a) and (b)					
	d) Stimulant					
11.		sulphide on man leads to	_			
	a) Paralysis	b) Blindness	c) Sterility	d) None of these		
12.	=	person from disease beca				
	a) Helps in RBC produc	ction	b) Produces antibodies			
	c) Helps in digestion		d) Correct body function	n		
13.	Addiction to alcohol ca		.			
	a) Cirrhosis	b) Epilepsy	c) Neurosis	d) psychosis		
14.		us disease which is cause		n		
4.5	a) Virus	b) Bacteria	c) Fungal	d) Protozoa		
15.	Antibody molecule has		IAm I III			
	a) Four polypeptide ch		b) Five polypeptide chains			
	c) Six polypeptide chair	ns	d) Seven polypeptide ch	nains		

16. Identify the pictures A, B and C



- a) A-Opium poppy, B-Cannabis sativa, C-Datura b) A-Cannabis sativa, B-Opium poppy, C-Datura
- c) A-Datura, B-Opium poppy, C-Cannabis sativa d) A-Opium poppy, B-Datura, C-Cannabis sativa
- 17. Morphine, obtained from opium, is

	a) Latex b) Pon		c) Alkaloid	d) tannin
18.	The chemical used in 'National			N =
	a) 2, 4-D b) BH(c) DDT	d) Pyrethroid
19.	Benign tumours	. 11 1	1 11	
	I. remain confined to their orig	ginal location and	do not spread to other p	arts
	II. cause little damage	ah aya ia /aya aay	ao at?	
	Which of the statements given a) Only I b) Onl	•	c) I and II	d) None of the above
20	Entamoeba histolytica is a pa		c) I allu II	d) None of the above
20.	a) Large intestine b) Live		c) Lungs	d) Kidney
21	Common examples of allergen		c) lungs	d) Mulicy
		en grains	c) Animal dander	d) All of these
22.	Smack is chemically aA wh	-	·	•
	obtained byB Here A and		, , , , , , , , , , , , , , , , , , ,	
	a) A-diacetyl morphine; B-acet		b) A-morphine; B-acety	lation of hashish
	morphine	•		
	c) A-stimulant; B-acetylation of	of morphine	d) A-hallucinogen; B-ac	etylation of hashish
23.	The pathogen Mircosporum r	esponsible for rin	gworm disease in huma	ns belongs to
	a) Virus b) Bac	teria	c) Fungi	d) Protozoa
24.	The genes concerned with the	production of car	ncer are called	
	a) Cancer genes b) Car	cinogenes	c) Carcinomas	d) Oncogenes
25.	The given below figures show			
	CH ₃ Q CH ₃			
	HO	QΗ		
	5678			
	3 HO			
	H Ö 👢	В		
	a) A-Cannabinoid; B-Morphine	•	b) A-Morphine; B-Canna	ahinoid
	c) A-Morphine; B-Quinine	•	d) A-Quinine; B-Cannab	
26	Who stated that human popula	ation grows gemo	,	moid
20.	a) Malthus b) Dar		c) Cannon	d) Lamarck
27.	Cyclosporin and endosporins		-,	u, 2011101
	a) Anti retroviral drugs		b) Immuno-suppressan	ts
	c) Immuno-modulators		d) Immuno-vaccines	
28.	Emphysema is a		,	
	a) Cardio vascular disease		b) Pulmonary disease	
	c) Neural disease		d) renal disease	
29.	Alpha-interferons			
	a) Activate the immune system	1		
	b) Help in destroying the tumo	ur		
	c) Both (a) and (b)			
	d) None of the above			
30.	Which technique uses the bod	y's water molecul		ages?
	a) Sonography		b) MRI	
0.4	c) Radioactive traces	1.1.20	d) Thermography	
31.	Antigen binding site of immun	_	L\X	1. 1 .
	a) Variable region of heavy cha		b) Variable region of lig	
22	c) Constant region of light cha		d) Variable region of bo	tn neavy and light chair
3 ∠.	Amoebiasis infection occurs by	y ingesting cysts t	vitii iooa ana arinks	

	a) True	b) False		
	c) Sometimes (a) and sometimes (b)	d) Neither (a) nor (b)		
33.	The synthetic drugs structually similar to adrer	naline are		
	a) Amphetamines	b) Barbituratess		
	c) Halluncinogens	d) Nicotinic derivatives		
34.	Antibody production is controlled by			
	a) B-lymphocytes b) T-lymphocytes	c) Both (a) and (b)	d) Interferon	
35.	Cannabinoids is obtained from			
	a) Inflorescence of the plant <i>Cannabis sativa</i>			
	b) Fruits of the plant <i>Papaver somniferum</i>			
	c) Latex of the plant <i>Cannabis sativa</i>			
	d) Plant <i>Papaver somniferum inflorescence</i>			
36.	A substance that cause an allergic reaction is ca	lled		
	a) Allergen b) Pollen	c) Foreign substance	d) Dander	
37.	The polypeptide chains present in gamma imm	unoglobulin are		
	a) 2 b) 4	c) 6	d) 8	
38.	Kala-azar is caused by			
	a) Trypanosoma cruzi	b) Leishmania donovar	ni	
	c) Trypanosoma brucei	d) Trypanosoma gambi	iense	
39.	Graft transplantation to save certain patients fa	ils due to the rejection o	f such organs by the	
	patient. Which type of immune response is resp	oonsible for such type of rejection?		
	a) Cell-mediated immune response	b) Humoral immune re	sponse	
	c) Both (a) and (b)	d) Innate immune resp	onse	
40.	Which of the following is used in diagnosis of epilepsy?			
	a) X-ray radiography	b) Digital Subtraction A	ngiography(DSA)	
	c) Sonography	d) Positron Emission To	omography(PET)	
41.	The disease 'Oriental sore' is caused by			
	a) Bacteria b) Virus	c) Protozoa	d) Fungus	
42.	ELISA test is used for detection of			
	a) Antibodies b) Viral disease	c) AIDS	d) All of these	
43.	Except skin, other physical barriers which also	helps to prevent the ent	ry of the microorganisms	
	are			
	I. mucus coating of the epithelium lining the res	spiratory		
	II. gastrointestinal tracts			
	III. urogenital tracts			
	Choose the correct option			
	a) I and II b) I and III	c) II and III	d) I, II and III	
44.	Cocaine is commonly called as			
	a) Coke b) Crack	c) Both (a) and (b)	d) Smack	
45.	Ability of the body to fight against the disease c			
	a) Vulnerability b) Susceptibility	c) Irritability	d) Immunity	
46.	In a standard ECG, which one of the following a	lphabets is the correct re	epresentation of the	
	respective activity of human heart?			
	a) R-repolarization of ventricles	b) S-start of systole		
. –	c) T-end of diastole	d) P-depolarization of t	he artia	
47.	Damage to thymus in a child may lead to			
	a) Loss of cell-mediated immunity			
	b) A reduction in the haemoglobin content in bl			
	c) A reduction in the amount of plasma proteins	S		
	d) Loss of antibody-mediated immunity			

48.	Purpose of tubectomy is to prevent				
	a) Fertilization	b) Coitus			
	c) Egg formation	d) Embryonic develop	ment		
49.	Antibodies in our body are complex				
	a) Lipoproteins b) Steroids	c) Prostaglandins	d) Glycoproteins		
50.	What is the name of complex formed at the tin	ne of action of T-cells?			
	a) HLA	b) STD antigen comple	ex		
	c) HLA antigen complex	d) MHC antigen compl	ex		
51.	Proliferation of cancer cells is not limited beca	nuse of			
	a) Differing surface proteins	b) Differing cholestero	ol level		
	c) Deficiency of steroids	d) Aberrant chromoso			
52.	Smack is generally taken by	·	•		
	a) Snorting b) Injection	c) Both (a) and (b)	d) None of these		
53.	Which of the following is a matching pair of a		•		
	a) Amphetamines- Stimulant	b) Lysergic acid diethl	y amide - Narcotic		
	c) Heroin - Psychotropice	d) Benzodiazepine - I			
54.	The drugs, which are commonly abused are	,			
	a) Opioids b) Cannabinoids	c) Coca alkaloids	d) All of these		
55.	Consider the following statements	,	,		
	I. Secondary lymphoid organs includes lymph	nodes, spleen and small	masses of lymph tissue		
	such as Peyer's patches, appendix and tonsils	, I	J 1		
	II. The secondary lymphoid organs all the site	of lymphocyte maturation	on and they efficiently trap		
	antigens for exposure to T and B-cells	J 1 J	J J 1		
	Which of the statements given above is/are correct?				
	a) Only I b) Only II	c) I and II	d) None of these		
56.	Who among the following is recognized as the	•	.,		
	a) Robert Koch b) Hippocrates	c) Louis Pasteur	d) Edward Jenner		
57.	Which of the following organs is not involved	-			
	a) Brain b) Lymph nodes	c) Spleen	d) Thymus		
58.	The term 'Vaccine' was introduced by	, 1	, ,		
	a) Jenner	b) Koch			
	c) Pasteur	d) Jointly by Koch and	Pasteur		
59.	Tuberculosis is caused by	,, , ,			
	a) Mycobacterium sp. b) Aspergillus sp.	c) Clostridium sp.	d) <i>Vibrio</i> sp.		
	-, y	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		
60.	Main source of amoebic dysentery is				
	a) Contaminated food and water				
	b) Water and food contaminated by the faecal	matter			
	c) Water and food contaminated by urine				
	d) Water and food contaminated by polluted a	ir			
61.	Mycobacterium leprae causes				
	a) Tuberculosis b) Leprosy	c) AIDS	d) Tetanus		
62.	Excessive doses of drugs may lead to coma and	•	,		
	a) Respiratory failure b) Heart failure	c) Cerebral hemorrha	ge d) All of these		
63.	All stages of the <i>Plasmodium</i> get digested in st				
	a) Sporozoite b) Gametocyte	c) Erythrocyte	d) None of these		
64.	Hodgkins disease is	, J J	,		
- ••	a) Cancer of the lymphoid tissue	b) Cancer of the mamr	nary gland		
	c) cancer of the WBC	d) Cancer of the liver	<i>y</i> 0		
	•	•			

65	The interferons are		
05.	a) Antibacterial drug	b) Antiviral drugs	
	c) Antibiotic drugs	d) Immunosuppressive	druge
44	_	d) Illilliullosupplessive	urugs
00.	Food poisoning is caused by a) <i>Nitrosomonas</i> b) <i>Lactobacillus</i>	a) Ecoboriobio coil	d) Nama of these
7	a) Nitrosomonas b) Lactobacillus Choose the true statements	c) Escherichia coil	d) None of these
07.		1:00	
	I. Innate immunity is accomplished by providing		
	II. Acquired immunity is present from the birth	=	
	III. Sweat, tears, acid in the stomach and saliva	orevent microbial growt	h
	Codes		
	I II III		<u></u>
	a) True False True	b) True True Fals	se
	c) False False True	d) False True Fals	se
68.	Immunoglobulins are made up of	1	
	a) Two polypeptide chains	b) Four polypeptide cha	ains
	c) Three amino acids only	d) Five nucleotides	
69.	AIDS is not diagnosed by	,	
	a) Enzyme Linked Immuno Sorbant Assay test		
	b) WIDAL test		
	c) RIA		
	d) Both (b) and (c)		
70	The protein $\alpha - 1$ antitrypsin is used to treat where $\alpha = 1$	hich of the following disc	-ase?
70.	a) Cancer	b) Rheumatoid arthritis	
	c) Alzheimer's disease	d) Emphysema	,
71	The immune system is made of	d) Linphysema	
/ 1.	a) Humoral system	h) Humaral and gall ma	diated gretom
		b) Humoral and cell me	-
70	c) Humoral and fibrous system	d) Antigen induced anti	boules
12.	An autoimmune disease is	a) All	al\M(l''-
70	a) AIDS b) Haemophilia	c) Allergy	d) Myasthenia gravis
13.	AIDS is the condition where	. 1	
	a) The patients immune system is completely do		. 1
	b) The patient succumbs to various infect, has w	asting and develops syn	nptoms such as fever,
	diarrhoea and weight loss		
	c) Both (a) and (b)		
	d) Virus multiply in T-cytotoxic cells		
74.	Which of the following is correct for immuno-m		
	a) They always suppress immune system	b) They never suppress	
	c) They always stimulate immune system	d) Specific immuno-mo	
		immuno-response of	-
		whereas some other	immuno-modulators
		inhibit it	
75.	The disease filarial is transmitted by		
	a) Tse-tse fly b) Sand fly	c) <i>Culex</i>	d) <i>Anopheles</i>
76.	The immune system plays a major role in		
	a) Allergic reactions	b) Auto-immune diseas	es
	c) Organ transplantation	d) All of these	
77.	What is HLA?		
	a) Group of proteins	b) Group of chromosom	ies
	c) Group of genes	d) Group of polypeptide	

78.	Aloe vera cures cough a	and cold by		
	a) Leaf juice with opium	n	b) Leaf juice mixed wit	th oil
	c) Juice of roasted leave	es taken with honey	d) Salad of leaves	
79.	Active immunity may b	e produced by		
	a) Contacting a disease		b) Readymade antibod	ies
	c) Both (a) and (b)		d) Receiving gamma gl	ubulin infection
80.		e production of interfer	ons in his body, chances	
	from	•	V .	O
	a) Anthrax	b) Malaria	c) Measles	d) Tetanus
81.	Which of these is based	•	,	,
	a) EEG	b) CT scanning	c) NMR scanning	d) PET scanning
82.	•			is (HIV), Which one of the
	following statements is			(),
	•		male are twice as likely	as from male to female
				ther sexually transmitted
	infections	difficulties and the second	a person samers from s	ener benauny transmitted
		can transmit the infecti	on to her baby during pr	egnancy at child birth and
	by breast feeding			-8
		ing infection from trar	nsfusion of infected bloo	d is much higher than an
	exposure to contami			8
83.	Amniocentesis is used to			
	a) Heart disease	· ·	b) brain disease	
	c) Hereditary disease o	of the embryo	d) All of the above	
84.	· •	-	ovirus in a host cell is sho	wn. Observe it carefully
	and fill up the blank A,			·
	(A)			
	Virus infects n	ormal cell		
	Viral RNA is introduced			
	in host cell			
	$\stackrel{\downarrow}{B}$			
	Viral RNA incorporates			
	in host genome			
	↓ C			
	Ţ			
	New viruses are produced			
	a) A-Retrovirus, B-Vira	l DNA is produced, C-Ne	ew viral RNA is produced	[
	b) A-Transcriptase, B-B	acterial RNA is produc	ed, C-New viral DNA is pr	oduced by the infected
	cell			
	c) A-Reverse transcript	tase, B-Viral DNA is pro	duced, C-New viral RNA	is produced by the
	infected cell			
	d) A-Reverse transcript	tase, B-Viral DNA is pro	duced, C-New viral DNA	is produced by the
	infected cell			
85.	Most important compo	nent of oral contracept	ive is	
	a) LH	b) GH	c) Thyroxine	d) progesterone
86.	Which of the following	normally confined to the	neir original location and	do not spread to other
	parts of the body?			
	a) Malignant tumour	b) Metastasis	c) Benign tumour	d) cancer
87.	Protein deficiency lead	s to		

	a) Kwashiorkor	b) Marasmus	c) Cretinism	d) Both (a) and (b)
88.	In AIDS, the system wh	ich show failure is		
	a) Digestive system	b) Respiratory system	c) Defence system	d) Sensory system
89.	Cannabinoid are the gr		interact with cannabino	id receptors present
	principally in			
	a) Brain	b) Neuron	c) Nephron	d) Dendron
90		•	ubstances are formed by	•
, 0.	a) Macrophages	b) Interferons	c) Mast cells	d) Collagen tissue
91	, ,	•	ments (I-V) contains is o	
<i>,</i> 1.	beri?	it the following live state	ments (1 v) contains is c	torrect regarding berr
		rovalant among the nativ	ve population of sub-Sah	ara Africa
		caused by lack of thiami	= =	ai a Airica.
			children when the diet is	norgiatantly deficient in
	essential protein.	ier in imants and young	cilliaren when the alet is	s persistantly dencient in
	•	ntrica where the stanle	diatia polichad rica	
		ntries where the staple of	rsis, muscle wasting, pro	avogajira o odoma montal
			isis, muscie wasting, prog	gressive dedema, mema
	deterioration and final		a) I III I II	4\11 117 1 17
00	a) I, II and IV	b) II, III and V	c) I,III and V	d) II, IV and V
92.	-	diseases is caused due t	•	-1\ m .
00	a) Leprosy	b) Typhoid	c) Asthma	d) Tetanus
93.		is a pair of viral diseases		
	a) Ringworm, AIDS		b) Common cold, AIDS	
	c) Dysentery, common	cold	d) Typhoid, tuberculos	İS
	<i>(</i>			
94.	'Lock jaw' is another na		\ m :	N. D. J. J.
	a) Malaria	b) Kala-azar	c) Tetanus	d) Diphtheria
95.	Choose the wrong state			
	a) AIDS is an immunod	•		
	b) It is caused by the re			
		ts and kills B-lymphocyt		
			te <i>via</i> DNA intermediate	
96.	Osteomalacia is a defic	•		
			b) adults due to proteir	
	c) Adults due to vitami	•	d) Infants due to vitam	in-K deficiency
97.	Study the following ser			
	_	t tumours divide erratic	-	
	II. They are malignant	tumours of epithelial cel	ls.	
	III. They are malignant	tumours of organs that	originate from mesoderi	n.
	IV. These tumours are	found in organs such as :	spleen and lymph nodes	
	Which of the above are	true for angiosarcoma?		
	a) I and II	b) II and IV	c) I and III	d) II and III
98.	Spleen is a storage site	for		
	a) Erythrocytes	b) Basophils	c) Platelets	d) Neutrophils
99.	Tobacco contains			
	a) Nicotine	b) Amphitamins	c) Carbon monoxide	d) Both (a) and (c)
100			ch for transplants in orde	
	a) Parent>sibling>twi		b) Sibling> twin> Pare	=
	c) twin> unrelated dor		d) Twin> sibling> Pare	
	,		,	

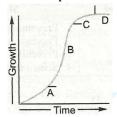
IMPORTANT PRACTICE QUESTION SERIES FOR NEET EXAM - 2

- 1. Regarding lymphocytes consider the following statement
 - I. The T-lymphocytes form Cell Mediated Immune System (CMIS)
 - II. The T-lymphocytes cells do not secrete antibodies but help the B-lymphocyte cell to produce them

Which of the statement given above is/are correct?

- a) Only I
- b) Only II
- c) I and II
- d) None of these

- 2. HIV was reported in 1981 and isolated by
 - a) Pasteur
- b) Mantagnier
- c) Robert Hook
- d) Hansen
- 3. In the sigmoid curve of growth, the alphabets indicate the sequence of events. Choose the correct option where the alphabet specifies the event.

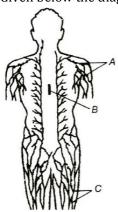


- a) A-Phase of slow growth
 - B- Phase of exponential growth
 - C- Phase of diminishing growth
 - **D-Stationary** phase
- b) A- Phase of rapid growth
 - B- Phase of diminishing growth
 - C- Stationary phase
 - D- Phase of slow growth
- c) A- Diminishing growth

- B- exponential growth
- C- Slow growth
- D- Stationary phase
- d) A- Stationary phase
 - B- Phase of slow growth
 - C- Phase of rapid growth
 - D- Phase of diminishing growth
- 4. *Ascaris* is also known as
 - a) Roundworm
- b) Flatworm
- c) Tapeworm
- d) Liverworm
- 5. Which of the following helps in differentiation of cells of the immune system
 - a) Thymosin
- b) Thyroxine
- c) Cortisol
- d) Steroid

- 6. Common symptoms of typhoid are
 - a) High fever and weakness

- b) Stomach pain and constipation
- c) Headache and loss of appetite
- d) All of the above
- 7. The immune system may at times reject certain tissues of a person's own body as 'non-self'. This breakdown of the body's self-recognition system is called ...A... The auto-immune reactions cause a variety of diseases known asB...C... is an autoimmune disease. The most appropriate option providing A, B and C correctly is
 - a) A-autoimmunity, B-autoimmune disease, C-rheumatoid arthritis
 - b) A-immunodeficiency, B-immunodeficiency disease, C-AIDS
 - c) A-severe combined immunodeficiency, B-congenital disease, C-Addison's disease
 - d) A-autoimmunity, B-secondary immunodeficiency disease, C-diabetes
- 8. The word NACO stands for
 - a) National AIDS Control Organisation
 - b) Non-Governmental AIDS Control Organisation
 - c) National Agrochemical Organisation
 - d) Both (b) and (c)
- 9. Ringworm is caused by
 - a) Bacteria
- b) Virus
- c) Protozoa
- d) Fungi
- 10. Given below the diagrammatic representation of lymph nodes



Label A, B and C

- a) A-Lymph nodes, B-Thymus, C-Lymphatic vessels
- b) A-Lymphatic vessels, B-Thyroid, C-Lymph nodes
- c) A-Tonsils, B-Peyer's patchs, C-Lymphatic vessels
- d) A-Tonsils, B-Thymus, C-Peyer's patches
- 11. The function of IgE is
 - a) Mediate in allergic response
 - b) Activation of B-cells

	c) Protection from inhaled and ingested pathogens d) Stimulation of complement system, passive immunity of foetus								
10	•	-	•	a halm of					
12.	a) Immunoglobulins	ndary immune responses b) T-lymphocytes	c) both (a) and (b)	=					
12	Opium is extracted fro		c) botti (a) aliti (b)	d) Lysozymes					
13.	a) Atropa belladona	b) <i>Papaver somniferun</i>	n c) Vinca rosea	d) Azadirachta indica					
14	•	causes prostate cancer?		a) Azadır acırta marca					
	a) Chromium	b) Cadmium oxide	c) Vinyl chloride	d) Aflatoxins					
15.	Salmonella is related w	•	o, v, r oo.	<u> </u>					
	a) Typhoid	b) Polio	c) TB	d) Tetanus					
16.	Diphtheria is caused by	•	•	,					
	-	living bacterial cells into	the host tissues						
	b) Poisons released fro	m dead bacterial cells in	to the host tissues						
	c) Poisons released by virus into host tissues								
	d) Excessive immune response by the host's body								
17.		itted through the followi	• • • • •						
	a) Hugging		b) Sharing foods						
	c) Using public toilet		d) Sharing razor blades	S					
18	Small proteins produce	ed hy vertehrate cells na	turally in response to vi	ral infections and which					
10.	inhibit multiplication of	-	turally in response to vi	rai infections and which					
	a) Immunoglobulins	b) Interferons	c) Antitoxins	d) Lipoproteins					
19.				ergy or asthma. What are					
	the main causes of this		8	3					
	I. Due to sensitivity to	=							
		ected environment provi	ded early in life						
	III. Modern-day life sty	le							
	a) I and II	b) I and III	c) II and III	d) I, II and III					
20.		wing is the correct staten	nent regarding the parti	cular psychotropic drug					
	specified?								
	•	through perception and							
	• •	ervous system and cause							
		elusions and disturbed e							
21		elaxation and temporary	=	aga) thay fill the fluid					
۷۱.		curs in the alveoli (micro work efficiency, the lung	=						
		of being short of breath,							
	pneumonia	or being shore or breating	, winch is one of the mos	ic common symptoms of					
	•								
	The above paragraph i	S							
	The above paragraph i a) True	s							
	The above paragraph i a) True b) False	S							
	a) True								
	a) True b) False								
22.	a) True b) False c) Sometimes (a) and s	sometimes (b)							
22.	a) True b) False c) Sometimes (a) and s d) Neither (a) nor (b)	sometimes (b)	c) Southern blotting	d) Eastern blotting					
	a) True b) False c) Sometimes (a) and s d) Neither (a) nor (b) To confirm ELISA for A	sometimes (b)	c) Southern blotting	d) Eastern blotting					
23.	a) True b) False c) Sometimes (a) and s d) Neither (a) nor (b) To confirm ELISA for A a) Western blotting Which is not cancer? a) Leukaemia	sometimes (b) AIDS, we used b) Northern blotting b) Trachoma	c) Southern blottingc) Carcinoma	d) Eastern blotting d) Sarcoma					
23.	a) True b) False c) Sometimes (a) and s d) Neither (a) nor (b) To confirm ELISA for A a) Western blotting Which is not cancer?	sometimes (b) AIDS, we used b) Northern blotting b) Trachoma	_	d) Sarcoma					

	c) Diphtheria, pneumonia, tetanus	d) Diphtheria, whoopin	
25.	Sickle cell anaemia has not been eliminated from		
	a) It is controlled by recessive genes	b) It is not a fatal diseas	
24	c) It provides immunity against malaria	d) It is controlled by do	minant genes
20.	Thymus is the site for the development and mar a) T-lymphocyte b) B-lymphocyte	c) Both (a) and (b)	d) Antibodies
27	A person is injected with globulin against hepat		d) All tiboules
۷1.	a) Artificially acquired passive immunity	b) Artificially acquired a	active immunity
	c) Naturally acquired active immunity	d) Naturally acquired p	
28.	An alkaloid called 'Reserpine' is extracted from	a) matarian y acquired p	acci (c iiiiiii aiiic)
	a) Leaves of ashwagandha	b) Roots of sarpagandh	a
	c) Leaves of sarpagandha	d) Roots of ashwagandh	
29.	Human immunodeficiency virus causes		
	a) Acquired immuno deficiency syndrome	b) Anthrax	
	c) Tuberculosis	d) Polio	
30.	In heavy smokers, the alveoil of the lungs are en		nich reduces the surface
	area for the exchange of respiratory gases. The		N -
	a) Asthma b) Silicosis	c) Emphhysema	d) Insomnia
21	Entamoeba histolytica feeds on		
51.	a) Liver b) Small intestine	c) Large intestine	d) WBCs
32	Identify the wrongly matched pair.	c) Large intestine	d) WBG5
02.	a) Typhoid - Widal test		
	b) Plague - Viral disease		
	c) Malignant malaria - <i>Plasmodium falciparum</i>		
	d) Common cold - Rhinovirus		
33.	At which stage of HIV infection does one usually	y shows symptoms of All	OS?
	a) When viral DNA is produced by reverse tran	scriptase	
	b) When HIV replicates rapidly in helper T-lymp		rge number of these
	c) With 15 days of sexual contact with an infect	-	
0.4	d) When the infecting retrovirus enters host cel	ls	
34.	Consider the following statements		
	I. Dead cells of the skin prevents pathogen entry II. Skin secretes oil that makes skin surface acid		
	III. Skin secretes on that makes skin surface acidi		
	Which of the statement given above are correct		
	a) I and II b) I and III	c) II and III	d) I, II and III
35.	Symptoms of allergic reaction includes	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	a) Watery eyes	b) Running nose	
	c) Respiratory complaints	d) All of these	
36.	A person has developed interferon in his body.	He seems to carry an info	ection of
	a) Typhoid b) Filariasis	c) Malaria	d) Measles
37.	Spread of AIDS is due to		
	a) Infected needless and syringes	b) Sexual contact with i	nfected person
00	c) Both (a) and (b)	d) Sharing public toilet	
38.	Human population growth is		d) NI Col
20	a) Lag b) Stationary	c) Exponential	d) None of these
<i>5</i> 7.	Malarial parasite is introduced into the blood of a) Metacryptozoite b) Schizont	r man as a c) Oocyte	d) Sporozoite
40	Expanded from of ELISA is	o, oocyte	α) σροι σεσιτε
. • .	r		

	a) Enzyme Linked Immuno Sorbent Assay		b) Enzyme Linked Ion Sorbent Assay			
	c) Enzyme Linked Indu	ıctive Assay	d) None of the above			
41.	Elephantiasis causing o	organism belong to				
	a) Aschelminthes	b) Platyhelminthes	c) Cnidaria	d) Porifera		
42.	Vaccination provides					
	a) Natural immunity	b) Passive immunity	c) Both (a) and (b)	d) Active immunity		
43.	Which of the following	is not hallucinogen?				
	a) Heroin	b) LSD	c) Marijuana	d) Charas		
44.	Which one of the follow	ving acts as a physiologi	cal barrier to the entry o	of microorganisms in		
	human body?					
	a) Tears		b) Monocytes			
	c) Skin		d) Epithelium of uroge	nital tract		
45.	The truck drivers usual	lly take				
	a) Amphetamines	b) LSD	c) Caffeine	d) morphine		
46.	Short lived immunity a	cquired from mother to	foetus across placenta o	r through mother's milk		
	to the infant is categori	zed as				
	a) Active immunity		b) Passive immunity			
	c) Cellular immunity		d) Innate or non-specif	fic immunity		
47.	Cancer cells are more e	easily damaged by radia	tion than normal cells be	ecause they are		
	a) Starved of mutation		b) Undergoing rapid di	vision		
	c) Different in structure	e	d) Non-dividing			
48.	Cattle fed with spoilt ha	ay to sweet clover, whic	h contains dicumarol			
	a) are healthier due to	good diet				
	b) Catch infections easily					
	c) May suffer with vitamin-K deficiency and prolonged bleeding					
	d) May suffer from beri-beri due to deficiency of vitamin-B					
49.	Which of the following	are the reasons for rhe	umatoid arthritis? Choos	e the correct option		
	I. Lymphocytes become	e more active				
	II. Body attacks self cell	ls				
	III. More antibodies are	-				
			eign molecules from self			
	a) I and II	b) II and IV	c) III and IV	d) I and III		
50.			l become hypersensitive			
	a) Hypochondria	b) Anxiety	c) Mood	d) Phobia		

IMPORTANT PRACTICE QUESTION SERIES FOR NEET EXAM - 1 (ANSWERS)

1)	С	2)	С	3)	а	4)	b
5)	а	6)	С	7)	С	8)	С
9)	d	10)	С	11)	а	12)	b
13)	а	14)	а	15)	а	16)	а
17)	C	18)	С	19)	С	20)	а
21)	d	22)	а	23)	С	24)	d
25)	b	26)	а	27)	b	28)	b
29)	C	30)	b	31)	d	32)	а
33)	а	34)	С	35)	а	36)	а
37)	а	38)	b	39)	а	40)	d
41)	b	42)	d	43)	d	44)	С
45)	d	46)	d	47)	а	48)	а
49)	d	50)	d	51)	а	52)	С
53)	а	54)	d	55)	С	56)	b
57)	а	58)	а	59)	а	60)	b
61)	b	62)	d	63)	b	64)	а
65)	b	66)	b	67)	а	68)	b
69)	d	70)	d	71)	b	72)	d
73)	С	74)	d	75)	С	76)	d
77)	а	78)	С	79)	а	80)	С
81)	C	82)	а	83)	С	84)	С
85)	d	86)	С	87)	d	88)	С
89)	а	90)	С	91)	d	92)	С
93)	b	94)	С	95)	С	96)	С
97)	С	98)	а	99)	a	100)	d

1 **(c)**

Ground water contaminated with arsenic cause black-foot disease. Black foot disease is a severe form of peripheral vascular diseases in which the blood vessels in the lower limbs are severely damaged, resulting eventually in progressive gangrene

2 **(c)**

Drugs like barbiturates, amphetamines, benzodiazepines, Lysergic Acid Diethylamides (LSD), and other similar drugs, that are normally used as medicines to help patient cope with mental illnesses like depression and insomnia, are often abused. Several plants, fruits and seeds having hallucinogenic properties have been used for hundreds of years in folkmedicine, religious ceremonies and rituals all over the globe

3 **(a)**

Nicotine.

Tobacco contains large number of chemical substances including nicotine, an alkaloid. Nicotine stimulates adrenal gland to release adrenaline and nor-adrenaline into blood circulation, both of which raise blood pressure and increases the heart rate

4 **(b)**

Alcoholism is a chronic often progressive disease in which a person craves alcohol and drinks despite repeated alcohol related problems. It involved a physical dependence on alcohol. It may lead to liver cirrhosis. Cirrhosis is build up of scar tissue that changes the structure of the liver and blocks blood flow. Cirrhosis can varicose veins, which can repture and potentially triggering internal bleeding.

5 **(a)**

Disease like whooping cough (pertussis), diphtheria and tetanus (lock jaw) can be prevented by immunizing all infants with triple vaccine-DTP (*i.e.,diphtheria, pertussis, tetanus vaccine*). Typhoid, caused by bacterium *Salmonella typhi*, cannot be cure with triple vaccine but typhoid did vaccine is available.

6 **(c)**

SCID (**Severe Combined Immunodeficiency Disease**) is a congenital disease in which bone marrow stem cells are absent. Immunodeficiency affects both B and T-lymphocytes. It is caused by defective gene coding for the enzyme **adenosine deaminase**.

7 **(c)**

The flower tops, leaves and the resin of cannabis plant are used in various combination to produce marijuana, hashish, charas and ganja. Generally taken by inhalation and oral ingestion these are known for their effects on cardiovascular system of the body

8 **(c)**

Rat carries rat fleas, which causes bubonic plague and bite of rat causes rat fever.

9 **(d)**

This parasite can infect food and water so safety is of paramount importance. There are a few measures you can put in place to reduce the risk of amoebiasis, *whichincludes*

- (i) Boiling untreated water especially when travelling or comping
- (ii) Washing fruit and vegetables before eating them
- (iii) Washing your hands, utensils and kitchen worktops before and after food preparation
- (iv) Ensuring that all food is cooked at the correct temperature
- (v) Washing your hands everytime you visit the toilet or after you have been in contact with an infected animal
- (vi) Ensuring that any cooked food is covered when left out to cool down
- 10 **(c)**

Morphine is a very effective sedative and painkiller and is very useful in patients who have undergone surgery

11 **(a)**

Hydrogen sulpide is released into the atmosphere from industries and causes irritation of respiratory passage, paralysis and asphyxia in man.

12 **(b)**

Vaccines are made from microbes that are dead or inactive so that they are unable to cause the disease. The antigen in the vaccine is the same as the antigen on the surface of the

disease-causing microbe. The vaccine stimulates the body to produce antibodies against the vaccine

13 **(a)**

In alcoholic person, some part of alcohol is changed into acetaldehyde, which stimulates the formation of fat. This fat is deposited over the wall of arteries and also accumulates in liver cells. Due to which liver gets failed and there is very little regulation of carbohydrate, protein and fat metabolism. This disorder is known as fatty liver syndrome. Latter on, the liver gets turned into solid, hard, fibrous organ causing liver cirrhosis.

14 **(a)**

AIDS is a viral infection. HIV (Human Immunodeficiency Virus), the virus that causes AIDS, was first discovered in 1981 in a remote area of central Africa

15 **(a)**

Each antibody molecule has four peptide chains, two small called light chains and two long called heavy chains. Hence, an antibody is represented as $\rm H_2L_2$

- 16 **(a)**
 - A-Opium poppy, B-Cannabis sativa, C-Datura
- 17 **(c**)

Opium is the dried latex obtained from unripe capsules of *Papaver somniferum* (poppy). Morphine and codeine are the alkaloids formed from this dried latex and have the pain relieving property.

18 **(c)**

DDT (Dichloro Diphenyl Trichloroethane) is an organochlorine compound. These compounds are lipophilic and show much affinity for the fatty tissue of animals.

19 **(c)**

Benign tumour is a non-cancerous Tumour. It does not show metastasis and is non-invasive. It is less fatal to the body

20 **(a)**

Entamoeba Histolytica is a parasite of the human large intestine, commonly contracted by ingesting contaminated water or food

21 **(d)**

The substance, which produces immune response in an individual are called allergens, *e. g.*, pollen grains, animal dander, dust, feathers, drugs like penicillin, etc.

- 22 **(a)**
 - A-Diacetyl morphine; B-Acetylation of morphine
- 23 **(c**)

Microsporum is a genus of fungi that causes tinea capitis, tinea corpus, ringworm, and other dermatophytoses (fungal infections of the skin)

24 **(d)**

Genes that induce cellular proliferation are called proto-oncogenes. The proto-oncogenes encode for growth factors, growth factor receptors, transcription factors, etc. They change into **oncogene** or cancer genes.

26 **(a)**

Malthus calculate that though the number of organisms can increase geometrically (1, 2, 4, 8, 16,....), their food supply increases artithmetically (1, 2, 3, 4,....).

27 **(b**)

Immunosuppressants are the drugs capable of inhibiting the body's immune system, *e*, *g*, cyclosporine and endosporins, which cause suppression of body's T-lymphocytes.

28 **(b)**

Emphysema is a chronic disease in which alveolar walls are damaged due to which respiratory surface is decreased. One of the major causes of this is cigarette smoking. Emphysema is included in a group of diseases called **chronic obstructivepulmonarydisease**(COPD) pulmonary to lungs.

29 **(c)**

Tumour cells have been shown to avoid detection and destruction by immune system. Therefore the patients are given substances called biological response modifiers such as α -interferon, which activates their immune system and helps in destroying the tumours

30 **(b)**

In MRI, the body's water molecules are used for the base of images.

31 **(d**)

At the tip of each arm of the Y-shaped molecule is an area called the antigen binding site, which is formed by a portion of the heavy and light chains. Every immunoglobulin molecule has at least two of these sites, which are identical to one another

32 **(a)**

True. Amoebiasis infection is typically caused by the organism *Entamoeba hitolytica*, by ingesting food or water contaminated by infected faeces

33 **(a)**

The synthetics drugs structurally similar to adrenaline are amphetamines. These are synthetic drugs and act as strong stimulants. These are generally taken by truck drivers and night workers.

34 **(c)**

The B-lymphocytes produce an army of proteins in response to pathogens into our blood to fight them. These proteins are called antibodies. The T-cells themselves do not secrete antibodies but help B-cells to produce them

35 **(a)**

Cannabinoids can be extracted from the dried, seedless inflorescence of female *Cannabis* plants

36 **(a)**

An allergen is any substance (antigen), most often eaten or inhaled, that is recognized by the immune system and causes an allergic reaction

37 **(a)**

Immunoglobulin G (IgG) is the most abundant class of antibodies found in blood serum and lymph and active against bacteria, fungi, viruses and foreign particles. The basic structure of all Ig is same, *i,e.*, made up of light and heavy polypeptide chains, still they behave differently in similar physiological system. IgG possesses four polypeptide chains linked by disulphide bonds.

38 **(b)**

Leishmania donovani is anintracellular parasite in leucocytes or cells of liver, spleen, bone marrow, lymphatic glands, etc. It causes a serious oriental disease known as 'Kala-azar' accompanied by –swellings, fever, enlargement of liver and spleen, the skin colour turning black.

39 **(a)**

Cell-mediated immune response is mediated by T-lymphocytes. It is responsible for graft rejection in organs transplant because of its ability to differentiate between 'self' and 'non-self'

40 **(d)**

Epilepsy is second common neurological disorder. A number of tests to confirm the diagnosis of epilepsy are electroencephalography, brain imaging like CT-scan, MRI, PET and blood tests.

41 **(b)**

Oriental sores or skin boils or Delhi boils is a skin disease caused by a protozan *Leishmania orientalis* (or *L. tropica*). It is spread by sand fly.

42 **(d)**

A graphic record of spread of the cardiac impulse through the heart is called electrocardiogram. The machine by which the electrocardiogram is recorded is known as **cardiograph Willen Einthoven** (1903) is considered 'Father of Electrocardiography'.

43 **(d)**

Physical barriers: skin on our body is the main barrier, which prevents entry of the microorganisms. Mucous coating of the epithelium lining in the respiratory, gastrointestinal and urogenital tracts also helps in trapping the microbes entering our body.

44 **(c)**

Powder cocaine (also called coke) and crack are all powerful stimulants, with short-lived effects. They temporarily speed up the way your mind and body work, but the effects are short-lived

45 **(d)**

Immunity is the state of living beings having sufficient biological defences to avoid infections, diseases or other unwanted biological invasion

46 **(d)**

In ECG, **P-wave** indicates impulse of contraction generated by SA-node and it spreads in atria causing atrial depolarisation. **T-wave** is the most constant and conspicuous wave having the tallest amplitude. It is the first positive deflection during ventricular depolarization.

S-wave is the next downward deflection constant but often inconspicuous. **T-wave** is repolarization wave of ventricular relaxtion.

47 **(a)**

Thymus is the "seedbed" of thymic lymphocytes (T-lymphocytes). Some stem cells in the bone marrow give rise to immature lymphocytes. These lymphocytes migrate *via* the blood to the thymus, where they mature as T-lymphocytes, and produce cell-mediated immunity. Thus, damage to thymus in a child may lead to loss of cell-mediated immunity.

48 **(a**)

Tubectomy is the method of female sterilization, which involves cutting and tying (tubal ligation) of fallopian tubes. It prevents fertilization.

49 **(d**)

Antibodies are the proteins (**glycoprotiens**) called immunoglobulins. These are produced by the lymphocytes in response to entry of a foreign substance or antigen into the body.

50 **(d)**

T-lymphocytes are involved in cell mediated immunity. T-cells largely recognize proteins that have been processed within antigen presenting cells and presented on the cell surface in a form that is bound to a molecule known as **MajorHistocompatiblityComplex**(MHC).

51 **(a)**

Cancer cells do not respond to control mechanisms and do not show contact inhibition (differing surface proteins.). These cells proliferate in an unregulated manner and from clones of cells which can expand irregularly.

52 **(c)**

Heroin is a white or brown powder, odourless, bitter, crystalline compound. It can be mixed with water and injected with a needle. Heroin can also be smoked or snorted up the nose

53 **(a)**

Stimulants are also known as mood elevators. They increase nerve activity in the brain by initiating the release of noradrenaline, *e.g.*, amphitamines, caffeine, cocaine, etc.

54 **(d)**

The drugs, which are commonly abused are opioids, cannabinoids and coca alkaloids LSD. Majority of these are obtained from flowering plants. Some are obtained from fungi

⁵⁵ (c)

The primary lymphoid organs are bone marrow and thymus where immature lymphocytes differentiate into antigen-sensitive lymphocytes. After maturation the lymphocytes migrate to secondary lymphoid organs like spleen, lymph nodes, tonsils, Peyer's patches of small intestine and appendix. The secondary lymphoid organs provide the sites for interaction of lymphocytes with the antigen, which then proliferate to become effector cells

⁵⁶ (b)

Hippocrates is known as the father of medicine because many of the things he discovered are still practiced today

57 **(a)**

Brain is not involved in the elicitation of immune response, it is a part of central nervous system.

⁵⁸ (a)

Vaccine is a preparation containing dead or inactivated viruses or other microorganisms that on introduction in human body stimulate the formation of antibodies to fight against disease. First vaccine was prepared by Edward Jenner against cowpox.

59 **(a)**

Tuberculosis, commonly called TB is caused by a rod-shaped bacterium named *Mycobacterium tuberculosis*.

60 **(b**

Amoebic dysentery is caused by an intestinal endoparasite, *Entamoeba histolytica*, found in large intestine of humans. Infection takes place through contaminated food and water

61 **(b**

Leprosy is a bacterial disease, which is caused by *Mycobacterium leprae*.

62 **(d)**

Excessive doses of drugs may lead to coma and death due to respiratory failure, heat failure, cerebral hemorrhage, etc.

64 **(a)**

Hodgekins disease is a cancer of lymphoid tissue.

65 **(b**)

Interferons are the glycoproteins with low moleculer weight that are effective against most of the viruses. These are naturally produced by virus infected cells. These proteins interact with adjacent cells and make them resistant to virus attack. Now-a-days, interferons are also being manufactured through genetic engineering and are used in many antiviral drugs.

66 **(b**

67

Species of *Lactobacillus streptococcus, Micrococcus* and *Proteus* are responsible for spoilage of milk products. The exotoxins produced by these bacteria causes food poisoning.

Acquired immunity is not present from the birth and develops during the individual's lifetime. It is pathogen specific

68 **(b**)

Immunoglobulins are present in serum and provide immunity to body against diseases. Each immunoglobulin is made up of four polypeptide chains-two heavy weight chains and two light weight chains. These chains are joined to each other by disulphide bonds.

69 **(d)**

AIDS is diagnosed by ELISA test - Enzyme - Linked Immuno Sorbant Assay test

70 **(d)**

Transgenic animals that produce useful biological products can be created by the introduction of the portion of DNA (or genes) which codes for a particular product such as human protein, $\alpha-1$ —antitrypsin. The protein is used to treat emphysema.

71 **(b)**

Acquired immunity is specialized immunity that forms antibodies and activated lymphocytes that attacks and destroys the specific organism. These are of two type, *i.e.*, humoral immunity and cell mediated immunity. Humoral system involves antibodies and cell mediated system involves T-cells.

72 **(d)**

Myasthenia gravis is an autoimmune disease characterized by the chronic fatigability and weakness of muscles, espeically in the face and throat, as result of defect in the conduction of nerve impulses at the myoneural junction.

73 **(c)**

In AIDS, HIV (Human Immunodeficiency Virus) attacks the cells of the immune system. The immune system weakens no that the body cannot defined against various bacteria, viruses and other germs

74 **(d)**

Immuno-modulators are natural or synthetic substances that help to regulate or normalize the immune system. There are two types of immuno-modulators *viz*,immuno-suppressants, which cause immuno-suppression of the immune system and immuno-stimulants (immuno-stimulators) which stimulate immune system by including or increasing activity of any of its components.

75 **(c)**

The disease filaria (elephantiasis) is transmitted by *Culex* mosquito (female). *Wuchereria* bancrofit causes filariasis.

76 **(d)**

Immune system is unique in the sense that it recognizes foreign antigens, responds to these and remembers them. The immune system also plays an important role in allergic reactions, auto-immune diseases and organ transplantation

77 **(a)**

The most important antigens for causing graft rejection are a complex called HLA Humman Leucocyte Antigen(protein). The HLI occur on the white blood cells as well as on the tissue cells.

78 **(c)**

The juice of roasted leaves of *Aloe vera* taken with honey is good to cure cough and cold.

79 **(a**)

When a host is exposed to antigens which may be in form of living or proteins, antibodies are produced in the host body. This type of immunity is called active immunity

80 **(c)**

Measles is a viral disease caused by rubeola virus. Intereferons are proteins that increase the resistance of a cell to attack by viruses by unmasking genes that synthesize antiviral proteins. Thus, person suffering from measles shows the production of interferons in his body.

81 **(c)**

NMR scanning is based on magnetic resonance.

82 **(a)**

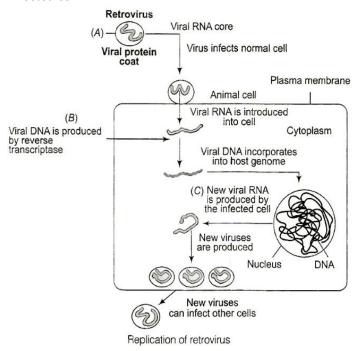
Human Immunodeficiency Virus (HIV) has three transmission. (i)Through sexual intercourse (65%).

- (ii) Transmission through blood transfusion, blood products and contaminated equipments (10%).
- (iii) Transmission from mother to baby (25%).
- 83 (0

Amniocentesis is one way to obtain foetal cells for testing of chromosomal abnormalities and genetic disorders. It is the process to determine any hereditary diseases in he embryo.

84 **(c**)

A-Reverse transcriptase, B-Viral DNA is produced, C-New viral RNA is produced by the infected cell



85 **(d)**

Oral contraceptives or contraceptive pills are taken to control fertility. Each pill contains a mixture of oestrogen and progesterone or only the pure synthetic progesterone which prevent ovulation.

86 **(c)**

Benign tumour is a tumour that lacks all three of three of the malignant properties of cancer. A benign tumour does not grow in an unlimited, aggressive manner, does not invade surrounding tissues and does not metastasize.

87 **(d)**

Protein deficiency causes both Kwashiorkor and marasmus. **Kwashiorkor** is characterized by wasted muscles, thin limbs, retarded growth of body and brain, oedema, pot belly and diarrhea.

Marasmus is characterized by impaired growth and replacement of tissue proteins, thin limbs and prominent ribs, dry, wrinkled and thin skin and diarrhea.

88 **(c)**

An HIV infection damages the immune system, *i.e.*, your body's defense system that light against diseases and infections

89 **(a)**

Cannabinoid are a group of chemicals, which interact with cannabinoid receptors present principally in the brain

90 **(c)**

Mast cells play a critical role in allergy and inflammation. Allergy is due to the release of

chemicals like histamine and serotonin from the mast cells

91 **(d)**

Statements II, IV and V are correct regarding beri-beri disease.

92 **(c**)

Most common allergen for asthma is house dust, pollen grains, smoke, etc. Asthma is characterized by narrowing and inflammation of bronchi, bronchiospasm and difficulty in breathing.

93 **(b)**

Common cold and AIDS are viral diseases, occur due to Myxo virus and Human Immunodeficiency virus (HIV) respectively.

The causative agents of ringworm disease are fungi *Trichophyton* and *Microsporum*. Typhoid and tuberculosis are bacterial diseases caused by *Salmonella typhi* and *Mycobacterium tuberculosis* respectively.

94 **(c)**

Tetanus is also known as 'lock jaw' disease. It is caused by the bacteria *Clostridium tetani*.

95 **(c**)

AIDS (Aquired Immuno Deficiency Syndrome) is caused by HIV (Human Immunodeficiency Virus). This virus selectively infects and kills the helper T-lymphocytes. Hence, the disease is characterized by reduction in the number of helper T-lymphocytes and breakdown of the immune system of the body.

96 **(c)**

Deficiency of vitamin-D causes weak bones, bone deformities, rickets in children and osteomalacia in adults. Marasmus is caused due to protein energy malnutrition.

97 **(c)**

Tumour that spreads and eventually caused ill health and death are described as malignant results from a breakdown of the regulatory mechanisms that govern normal cell behaviour. Sarcoma is a cancer of primitive mesoderma tissue and involves malignant tumours the cells of which divide erratically.

98 **(a)**

Spleen is a large reservoir of erythrocytes. The spleen is a large bean-shaped organ. It mainly contains lymphocytes and phagocytes

99 **(a)**

Tobacco contains a large number of chemical substances including nicotine, an alkaloid Tobacco contains large number of chemical substances including nicotine, an alkaloid. Nicotine stimulates adrenal gland to release adrenaline and nor-adrenaline into blood circulation, both of which raise blood pressure and increases the heart rate

100 **(d)**

The best HLA match for transplants in order of preference is as follows: Identical twins>sibling(brother and sister)>parent>unrelated donor

IMPORTANT PRACTICE QUESTION SERIES FOR NEET EXAM - 2 (ANSWERS)

1)	С	2)	b	3)	b	4)	а
5)	а	6)	d	7)	а	8)	а
9)	d	10)	а	11)	а	12)	С
13)	b	14)	b	15)	а	16)	а
17)	d	18)	b	19)	d	20)	а
21)	а	22)	a	23)	b	24)	d
25)	С	26)	а	27)	а	28)	b
29)	а	30)	С	31)	С	32)	b
33)	b	34)	d	35)	d	36)	а
37)	а	38)	С	39)	d	40)	a
41)	а	42)	d	43)	a	44)	a
45)	а	46)	b	47)	b	48)	С
49)	b	50)	a				

1 **(c)**

The T-lymphocytes mediate Cell Mediated Immune System (CMI). The B-lymphocytes produce an army of proteins in response to pathogens into our blood to fight with them. These proteins are called antibodies. The T-cells themselves do not secrete antibodies but help B-cells produce them

2 **(b)**

HIV was first isolated by Montagnier et. al in the pasteue institute of paris

3 **(b**

Many investigators have plotted size or weight of an organism against time producing a growth curve (a simple S-shaped curves). It shows the first lag phase or phase of slow growth, second phase of exponential growth, third phase of diminishing growth and last stationary phase.

4 **(a)**

Ascaris is a genus of parasitic nematode worms known as the 'small intestine roundworms'

5 **(a)**

The thymus gland secretes thymosin hormone, which stimulates the development of certain kinds of white blood cells involved in producing immunity.

6 **(d)**

Sustained high fever, weakness, stomach pain, constipation, headache and loss of appetite are some of the common symptoms of typhoid. It is confirmed by WIDAL test

7 **(a)**

A-Auto-immunity, B-Auto-immune disease, C-Rheumatoid arthritis

8 **(a**

NACO stands for National AIDS control organization. It was established in 1991

9 **(d**)

Ringworm is a skin infection caused by a fungus species of *Microsporum, Epidermophyton* or *Trichophyton*

11 **(a)**

IgE plays a major role in allergic reactions by sensitizing cells to certain antigens.

12 **(c)**

The primary and secondary immune responses are carried out with the help of two special types of lymphocytes present in our blood, *i.e.*, B-lymphocytes and T-lymphocytes. The B-lymphocytes produce an army of protein in response to pathogens into our blood to fight them. These proteins are called antibodies. Antibodies are protein molecules also called immunoglobins (lg)

13 **(b)**

Opium is obtained from poppy plant or *Papaver somniferum* (family-Papaveraceae).

14 **(b**)

Any agent or factor that induces cancer is called carcinogen carciogenic factor, *e.g.*,cadmium oxide, which induces prostate cancer. Chromium and nickel compounds induce lung cancer, while vinyl chloride and aflatoxins induce liver cancer.

15 **(a)**

Typhoidis caused by a rod-like motile bacterium named Salmonella typhi.

16 **(a)**

Toxins released from *Corynebacterium diphtheriae* causes diphtheria. Actually, bacterial cells do not contain gene for toxin production-a phage carries the gene for it. Only those lysogenised cells of C. *diphtheriae* which carry β —phage, can produce the toxin and cause diphtheria.

17 **(d)**

HIV can be transmitted from an infected person to another through. Blood (including menstrual blood), infected needles and synthesis, semen, sexual intercourse with infected person vaginal secretions, breast milk

18 **(b)**

Interferons (INFs) are group of three vertebrate glycoproteins (α, β, γ) . Out of these, two $(\alpha \text{ and}\beta)$ are produced within virally infected cells. Interferon induces, among adjacent cells, an antiviral state by including synthesis of the enzymes, which inhibit the viral reproduction cycle.

19 **(d)**

All of the above.

Modern-day life style has resulted in lowering of immunity and more sensitivity to allergens. More and more children in metro cities of India suffer from allergies and asthma due to sensitivity to the environment. This could be because of the protected environment provided early in life

20 **(a)**

Charas is the dried resinous extract from the flowering tops and leaves of *Cannabis sativa*. In some countries, it is called **hashish**It is a halluncinogen, which alters aperson's thoughts, feelings and perceptions.

21 **(a)**

True, *Streptococcuspneumonia* and *Haemophilus influenza* are responsible for the disease pneumonia in humans, which infects the alveoli of the lungs. As a result of the infection, the alveoli get filled with fluid leading to severe problems in respiration

22 **(a)**

HIV is a causative agent of disease AIDS. ELISA (Enzyme Linked Immune Sorbent Assay) is used to test HIV infections. **Western blottest** is widely used confirmatory test for HIV infection.

23 **(b)**

Trachoma is not a cancer. It is an eye disease, due to infection of bacteria, *Chlamydiatrachomatis*. There is increased redness with watery fluid secretion from eye.

24 **(d)**

DPT vaccine is given for three bacterial diseases, *i.e.*,diphtheria caused by *Corynebacterium diphtheriae*; pertussis or whooping cough caused by *Bordetellapertussis* and tetanus by *Clostridium tetani*.

25 **(c)**

Sickle cell anemia (in which RBCs become sickle-shaped and stiff) is a genetic disorder that is autosomal and linked to a recessive allele. It has not been eliminated from the African population because it provides immunity against malaria. People who are heterozygous for sickle cell allele are much less susceptible for *falciparum* malaria, which is one of main cause of illness and death in them. Thus, the sickle cell allele is maintained at high levels in populations where *falciparum* malaria is common.

26 **(a)**

Thymus provides the microenvironment for the development and maturation of T-lymphocytes

- 27 **(a)**Injection of some kind of globulins or antibodies provides artificially acquired passive
- Injection of some kind of globulins or antibodies provides artificially acquired passive immunity.

 (b)
- The tuberous roots of sarpagandha (*Rauwolffia serpentina*) are medicinally useful. They contain many alkaloids of which reserpine is most important. It lowers blood pressure. Besides, it cures diarrhoea and dysentery. The roots of ashwagandha (*Withania somnifera*) are used in treatment of rheumatism, cough, ulcers, and hiccups.
- 29 (a) Acquired Immuno-Deficiency Syndrome (AIDS) is a disorder of Human Immuno-Deficiency Virus (HIV). This disorder damages the immune system of human body.
- 30 (c) Smoking causes inflammation of lung alveoli, which decreases surface area for gaseous exchange and causes emphysema.
- 31 **(c)** Large intestine.

Entamoeba Histolytica is a parasite of the human large intestine, commonly contracted by ingesting contaminated water or food

32 **(b)**

Plague is a bacterial disease. It is caused by a rod-shaped, non-motile, bacillus, *Pasteurella pestis*. It is spread through the bit of infected rat flea (*Xenopsylla cheopsis*) on lower extremities.

33 **(b)**

HIV,enters into T-lymphocytes, replicates and produces progeny viruses. The progenyviruses released in the blood and damagesother helper T-lymphocytes. This is repeated leading to a progressive decrease in the number of T-lymphocytes in the body of the infected person. During this period, the person suffers from bouts of feverdiarrhoeaand weight loss. The person starts suffering from infections.

34 **(d)**

The skin provides the first defense against invasion by pathogens, skin acts as a wall that keeps pathogens out of the body. Secretions of the oil and sweat glands within the dermis make the skin's surface-acidic, inhibiting the growth of many pathogens. Sweat also contains the enzyme lysozyme, which attacks and digests the cell walls of many bacteria

35 **(d)**

Symptoms of allergic reactions are sneezing, water eyes, running nose, difficulty in breathing, etc.

36 **(a)**

Interferons block viral reproduction in healthy cells. Measles is caused by the measles virus. Typhoid is a bacterial disease.

Filariasis is a parasite disease (usually an infectious tropical disease) that is caused by thread-like nematodes. Malaria is caused by a protozoan (*Plasmodium* sp.) but carried by the female *Anopheles* mosquito

37 **(a)**

Both (a) and (b).

HIV can be transmitted from an infected person to another through. Blood (including menstrual blood), infected needles and synthesis, semen, sexual intercourse with infected person vaginal secretions, breast milk

38 **(c)**

Population growth curve is the graphic representation of population growths by plotting number of individuals at different time intervals.

The human population growth curve is S-shaped or sigmoid. It has three phases, *i.e.*, lag phase or slow phase or zero growth phase.

39 **(d)**

The infective stage of *Plasmodium*, inoculated into human blood by female *Anopheles* is a minute from called **sporozoite**. These are present in the saliva of female *Anopheles* mosquito.

40 **(a)**

ELISA stands for Enzyme Linked Immuno Sorbent Assay. It is a test for detection of AIDS virus.

41 **(a)**

The disease elephantiasis is caused by *Wuchereria bancrofti*, a member of phylum-Aschelminthes. It is an endoparasite of humans that lives in the lymphatic system. The disease is marked by an excessive growth of connective tissue and enormous swelling of affected parts, such as the scrotum, legs, arms and more rarely the vulva and breasts.

42 **(d)**

Vaccines provide active immunity to disease

43 **(a)**

Hallucinogens include LSD, marijuana, mescaline, psilocybin, bhang, ganja, hashish, charas, etc, while narcotic drugs include opium and its derivatives such as morphine, codeine, herion, etc.

44 **(a)**

Physiological barriers to the entry of microorganisms in human body are tears in eyes, saliva in the mouth and HCl in stomach. The enzyme lysozyme is found in tears and saliva and inhibits the synthesis of peptidoglycan present in the cell wall of microorganisms especially eubacteria.

45 **(a)**

Amphetamines and cocaine are strong stimulants. Stimulants increase nerve activity in the brain by intitiating the release of noradrenaline.

46 **(b)**

Passive immunity involves either the transfer of antibodies or of WBCs from an immune to a non-immune person. It may be natural, *e.g.*,transferred from mother to child across the placenta or through mother's milk to the infant or artificial, *e.g.*,cultured antibodies, antivenoms etc.

47 **(b)**

Cancer is caused by loss of control over cell's reproduction capacity. Therefore, they are more easily damaged by radiations than normal cells.

48 **(c)**

When cattle are fed with spoilt hay to sweet clover, which contains dicumarol, these may suffer with vitamin-K deficiency which resulted into prolonged bleeding or even fatal haemorrhage.

49 **(b)**

In rheumatoid arthritis, the immune system mistakenly attacks its own cells. The ability to differentiate pathogens or foreign molecules from self cells is lost

50 **(a)**

Hypochondria is a somatoform disorder in which one has the unfounded belief that he or she is suffering from a serious illness. Anxiety is complex combination of the fleeing of fear, apprehension and worry. Mood is a characteristic feeling. Phobia is an uncontrol, irrational and fear of a specific object, situation or activity.