Sr No.	PhD Medical Microbiology
1	Find the missing term in the following series:
	3,10,29,66,127?
Alt1	164
Alt2	187
Alt3	216
Alt4	218
	Choose word from the given options which bears the same relationship to the third word, as the first two bears Flower: Butterfly:: Dirt:?
Alt1	Rats
Alt2	Fly
	Bugs
	Sweeper
	·
3	Tiff is to Battle as Frugal is to?
	Sprint
	Vague
	Miserly
Alt4	
4	Select the lettered pair that has the same relationship as the original pair of words:
	Expend:
	Replenish
Alt1	Exhort: Encourage
	Formant: Rebellion
	Defect: Rejoin
	Encroachment: Occupy
5	Choose the set that has the same relationship as in the original:
	Bone : Skeleton : Nerve
	House: Door: Window
	Spoke: Wheel: Handle
	Retina: Eye: Pupil
	Snow: Cloud: Ice
, uc-T	
6	Spot the defective segment from the following:
	Only with your help
	I passed the test
	though you helped me
	at the last minute
AIL4	at the last minute
7	The government proposes to hanging.
	cancel
	nullify
	·
AIT3	invalidate

Alt4	abolish
8	The burglar was hit
Alt1	on head
Alt2	on his head
Alt3	on the head
Alt4	in the head
9	Choose the option closest in meaning to the given word:
	COGENT
Λ l+1	consistent
	acceptable
	convincing .
Alt4	weak
10	Choose the antonymous option you consider the best:
	PROVIDENT
Alt1	careful
Alt2	worldly
Alt3	prodigal
Alt4	frugal
11	Ravi's brother is 3 years senior to him. His father was 28 years of age when his sister was born while his mother was 26 years of age when he was born. If his sister was 4 years of age when his brother was born, what was the age of Ravi's father and mother respectively when his brother was born?
Alt1	32 years, 23 years
	32 years, 29 years
	35 years, 29 years
	35 years, 33 years
12	In each of the following questions some statements are followed by two conclusions (i) and (ii). Read the statements carefully and then decide which of the conclsions follow beyond a reasonable doubt. Mark your answer as br>
	Statement: All my films are copies. I am happy to inform of the source when I copy – a producer <br< th=""></br<>
	Conclusions:
	(i) The producer does not make even a single film based on his own idea
	(ii) The producer copies domestic and foreign films
	, - p
Alt1	If only conclusion (i) follows
Alt2	
ΛI+2	
Alt3 Alt4	

13	3. What value should come in place of question mark (?) in the following number series?
	14, 28, 46, ?, 94, 124
Alt1	64
Alt2	68
Alt3	72
Alt4	76
14	In a certain code ADVENTURES is written as TDRESAUVEN. How is SURPRISINGwritten in that code?
Alt1	IUIPGSRSNR
Alt2	IUINGSSRRP
Alt3	IUIPGSSRNR
Alt4	IRIPGSSNRR
15	Wax is related to Grease in the same way as Milk is related to
Alt1	Drink
Alt2	Ghee
Alt3	Curd
Alt4	Protein
16	The following information is given: Six persons A, B, C, D, E and F are sitting in two rows, three in each. E is not at the end of any row. D is second to the left of F. C, the neighbour of E, is sitting diagonally opposite to D. B is the neighbour of F. After interchanging seat with E, who will be the neighbours of D in the new position?
ΛI+1	C and A
-	F and B
	Only B
	Only A
AIL4	
17	If 30 students occupy 2/3 of the seats in a classroom, how many students would occupy 4/5 of the seats in the classroom?
Alt1	36
Alt2	32
Alt3	40
Alt4	48
18	Mean of the first 10 odd numbers is
Alt1	
Alt2	
Alt3	
Alt4	
19	Two numbers are in the ratio 2:3, If 4 be subtracted from each, they are in the ratio 3:5, Find the numbers.

Alt1	16,24
Alt2	20,30
Alt3	0.341666667
Alt4	None
20	It takes 30 seconds to cut the woodlock into 3 pieces. How much time does it takes to cut the same block into 4
	pieces?
Alt1	40secs
Alt2	45secs
	50secs
	60secs
21	In Japanese encephalitis pigs act as:-
	Intermediate host
	Definitive host
	Facultative host
	Amplifier
AIL4	Ampinier
22	Tundallication is a tuna of .
	Tyndallisation is a type of :-
	Boiling Auto-playing
	Autoclaving
	Intermittent sterilisation
Alt4	Pasteurization
22	
	Infection not transmitted transplacentally is:-
	Polio
	EB virus
	Herpes
Alt4	CMV
	All occurs in botulism except:-
-	Dysphagia
Alt2	Dysarthria
	Diarrhoea
Alt4	Diplopia
25	The holding time of an autoclave is:-
Alt1	161°C for 15 minutes at 15psi
Alt2	151°C for 30 minutes at 15psi
Alt3	121°C for 15 minutes at 15psi
	111°C for 15 minutes at 15psi
26	Which of the following immunoglobulin that is normally transported across the placenta and provides natural
	passive immunity in the newborn?
Alt1	
Alt2	
Alt3	
AILS	ig A

411	.T
Alt	4 IgA
	7 Dislocical control wood in determining the officers of cutoclass are the approach
	7 Biological control used in determining the efficacy of autoclave are the spores of:-
Alt	1 Clostridium perfringes 2 Bacillus cereus
	3 Bacillus stearothermophilus
Alt	4 Clostridium histolyticum
2	8 Rheumatic fever is caused by:-
	1 Treponema pallidum
	2 Streptococcus pyrogenes
	3 Clostridium botulinum
	4 Salmonella typhi
Ait	4 Jamonena typni
2	Horseradish peroxidase and alkaline phosphatase are the two enzymes commonly utilized as reagents in ELISA, because these enzymes:-
Alt	1 Have high turnover number
	2 Bind to ELISA plates
	3 Are very small
	4 Are colored proteins
7.110	The colored proteins
3	0 Plants and some bacteria differs from animals in the plants and some bacteria can:-
	1 Form polymers to glucose
	2 Use glucose by glycolytic pathway
	3 Use CO2 to increase their biomass
	4 Use galactose by glycolytic pathway
	Tose Barretose by Brycorfue patrimary
3	1 Traveler's Diarrhea is caused by?
	1 EHEC
	2 EPEC
	3 ETEC
	4 EIEC
AIL	4 LILC
3	The eukaryotic mitochondria is more similar to:-
	1 Protist
	2 Virus
	3 Moulds
	4 Bacteria
3	The specialized structure located at the end of the eukaryotic chromosomes called as:-
	1 Centromeres
	2 Long terminal repeats
	3 Terminators
	4 Telomeres
3	4 Formation of glucose from acetyl CoA is called:-
Δlt	1 Glycolysis

	TCA cycle
	Gluconeogenesis
Alt4	Glycogenesis
35	Spore staining involves the use of:-
Alt1	crystal violet and safranin
Alt2	methylene blue and carbolfuchsin
Alt3	lactophenol cotton blue
Alt4	malachite green and safranin
<u>.</u>	<u> </u>
36	Bacterial cells can be rendered more permeable to the uptake of plasmids by treatment with:-
	Calcium phosphate
	Heat
Alt3	Ultrasound or magnetism
	Alkali detergent
37	Viruses require for growth.
	living cells
	animals
-	bacteria
	plants
7 11 0-1	parts -
20	Among the following which is true cell according cell theory?
	Protestans
-	Bacteria
-	Monerans
	Virus
Alt4	Vii us
20	Which of the following is NOT required by Chemolithotrophs for manufacturing their own food?
	Chemical substances
	Light
	Nitrogen
Alt4	Water
10	to delice to the second desired by the second of
	Indol test positivity is indicated by presence of:-
	A red ring
	Colour change to yellow
	Colour change to blue
Alt4	Increased turbidity
	In genetic fingerprinting, the 'probe' refers to
	a radioactively labelled double stranded DNA molecule
	a radioactively labelled double stranded RNA molecule
	a radioactively labelled single stranded DNA molecule
Alt4	a radioactively labelled single stranded RNA molecule
-	
42	Which chemical is used for cryo-preservation?

Alt1	Thiourea
Alt2	DMSO
Alt3	PITC
Alt4	DCMU
43	Segmented RNA is found in:-
	Influenza virus
Alt2	Herpes virus
Alt3	Molluscumcontagiosum virus
	Rabies virus
	<u> </u>
44	Rice water stools are characteristic of infection with:-
Alt1	Shigellaflexineri
	Salmonella typhi
	Vibrio cholera
Alt4	Escherichia coli
45	Ebolavirus is a member of which family of viruses?
	Coronavirus
Alt2	Filovirus
Alt3	Retrovirus
Alt4	Togavirus
46	In DNA, the deoxygenation happens at:-
Alt1	4th carbon atom
Alt2	3rd carbon atom
Alt3	2nd carbon atom
Alt4	1st carbon atom
47	Which is essential for evolution?
Alt1	Natural selection
Alt2	Meiosis
Alt3	Mutation
Alt4	Reproduction
48	Lyme's disease is caused by the spirochete:-
Alt1	Leptonema
Alt2	Treponema
Alt3	Borrelia
Alt4	Leptospira
49	Which class does the first formed antibody belong?
Alt1	
Alt2	lgE
Alt3	
Alt4	

	New glasswares are slightly alkaline so soak in:-
	2% Hcl
	5% Hcl
	2% NaOH
Alt4	5% NaOH
	RNA molecule that exhibit catalytic activity are called:-
	Robozymes
	mRNAs
	Robosomes
Alt4	Ribonucleases
F2	From all to the contract of th
	Fungi without sexual cycle are classified as:-
	Phycomysis 5 minutes and the second s
	Fungi imperfecti
	Basidiomycetes
Alt4	Ascomycetes
гэ	Conversion of nitrite to nitrate in soil is done by the bacteria of genus:-
	Azotobacter
	Nitrobacter
	Pseudomonas
AIT4	Nitrosomonas
54	Bacteria belongs to:-
	Protista
	Plantae
	Monera
	Fungi
7	. 40.
55	DNA sequencing method was proposed by:-
	Hershey
	Sanger
	Crick
	Watson
56	Which of the following is transmitted by Rat urine?
	Leptospira
	Legionella
	Mycoplasma
	Listeria
57	Circulation of bacteria in blood is known as:-
Alt1	Bacteremia
Alt2	Septicemia
Alt3	Viremia
Alt4	Pyemia

58	Wheel shaped virus is :-
Alt1	Adenovirus
Alt2	Rabies virus
Alt3	Polio virus
Alt4	Rotavirus
59	The following Messenger RNA codons encode Methionine:-
Alt1	
Alt2	
Alt3	
	UGG
AIL4	000
60	Cormtube test is the confirmative test for
	Germtube test is the confirmative test for:-
	Penicillin notatum
	Aspergillusniger
	Candida albicans
Alt4	Cryptosporidium sps
61	A metastatic cancerous tissue is termed 'sarcoma' if the disorder is in:-
Alt1	Immune system
Alt2	Fibroblasts
Alt3	Circulatory system
Alt4	Epithelial cells
62	In Electron Microscopy the type of illumination used is:-
	Gamma rays
	Electron beams
Alt3	Ultra violet rays
	Infra-red beams
63	Corynebacteriumdiptheriae can be grown within 6-8 hours on:-
	McConkey's agar
	Dorset egg medium
	Loeffler's serum slope
-	Pottassium tellurite media with iron
AI(4	rottassium temunte media with non
C 4	Coordation occurs in
	Sporulation occurs in:-
	Decline phase
	Stationary phase
	Log phase
Alt4	Lag phase
	Which medium allows for the detection of various morphological or biochemical properties?
Alt1	Characteristic
Alt2	Differential
Alt3	Selective

ΛI+ <i>1</i>	Enrichment
All4	Emainen
	The genome of Hepatitis B virus consist of :-
	Single stranded DNA
	Single stranded RNA
	Double stranded RNA
	Double stranded DNA
All4	Double strainted DNA
67	The viruses in an attenuated vaccine:-
	are usually larger than bacteria
	continue to replicate
	is altered with chemicals
	have no genome
68	Which one of this could be called as stop codon?
Alt1	UAA UAG UGA
Alt2	UGU UUG UGG
Alt3	UUA GAU GGU
Alt4	บบบ Gบบ GบG
	Toxic shock syndrome toxin (TSST) are characteristic features of which bacterial agent:-
Alt1	Neisseria Meningitidis
Alt2	Leptospirainterrogans
Alt3	Staphylococcus aureus
Alt4	Bacillus anthracis
	The enzyme responsible for removing the primer and filling the gap with DNA is:-
	RNA primase
	DNA polymerase
	Helicase
Alt4	RNA polymerase
74	hathan falls falls to the standard for Book development and the standard section of the standard secti
/1	Which of the following is not required for RecA dependent recombination between two DNA molecules?
Δl+1	Ligation
7 11 12 1	
72	Most of the endangered species are the victims of:-
7.110-1] ∪
73	If bacteria possess two copies of certain genes then they are referred as-:-
	Amphidiploid
Alt2 Alt3 Alt4 72 Alt1 Alt2 Alt3 Alt4 73	Nuclease digestion Mismatch repair Strand Migration Most of the endangered species are the victims of:- Habitat destruction Acid rain Competition with introduced species Over-hunting If bacteria possess two copies of certain genes then they are referred as-:-

1	
Alt2	Euploid
Alt3	Merodiploid
Alt4	Polyploid
74	Blocking action of enzyme through blocking its active site is:-
	Feedback inhibition
	Allosteric inhibition
	Non-competitive inhibition
-	Competitive inhibition
AIL4	competitive inhibition
75	All of the following are features of prekaryates except:
	All of the following are features of prokaryotes except:-
	nitrogen fixation
	photosynthesis
	locomotion
Alt4	sexual reproduction
76	The difference between gram +ve and gram -ve oraganism is the gram -ve organism contains:-
Alt1	N-acetyl neuraminic acid
Alt2	Teichoic acid
Alt3	Aromatic amino acid
Alt4	Muramic acid
<u> </u>	
77	Macrophages, also called monocytes, have the ability to:-
	Process and present antigens to T cells
	Differentiate into dendritic cells when necessary
-	Express IgM molecules on their surface
	Produce antibodies
Ait	Todace antibodies
78	Any process that results in the integration of new combinations of genes together in a single cell is:-
Alt1	Fusion
	Genetic recombination
-	Genetic fission
	Allelotyping
AIL4	Alleiotyping
70	The first erganism in most natural food shains is:
	The first organism in most natural food chains is:-
	a herbivore
H	a decomposer
-	photosynthetic
Alt4	carnivorous
80	Which one of the following diseases is caused by Nosemabombycis in mulberry silkworm?
	Pebrine
	Flacherie
	Muscadine
	Grasserie
Alt4	J1 d35E11E

	Which of the following is best to sterilize heat labile (heat unstable) solutions?
Alt1	dry heat
Alt2	pasteurization
Alt3	autoclave
Alt4	membrane filtration
82	The endosymbiosis hypothesis provides an explanation for how:-
Alt1	eukaryotes developed from prokaryotes
Alt2	protozoa developed from algae
Alt3	prokaryotes developed from eukaryotes
Alt4	algae developed from protozoa
83	Which one of the following is polysaccharide?
	Glycogen
	Sucrose
	Lactose
	Maltose
7 (10-7	THUILOSC
9.1	If there is double bond between A & T and triple bond between G & C, then which sequence will be most stable
	at higher temperature?
	ATTGTACCAAA
	AATTATATATA
	AGCAGAGAGTT
AIT4	AGGCCGGCCCTA
0.5	
	The number of ATP produced when a molecule of glucose undergoes fermentation is:-
Alt1	
Alt2	
Alt3	
Alt4	<u>8</u>
	At which stage of HIV infection does one usually show symptoms of AIDS?
	When viral DNA is produced by reverse transcriptase
	When the infecting retrovirus enters host cells
	Within 15 days of sexual contact with an infected person
Alt4	When HIV replicates rapidly in helper T-lymphocytes and damages large number of these
87	Microbial drug resistance is an example of:-
	Microbial drug resistance is an example of:- Attenuation
Alt1	
Alt1 Alt2	Attenuation
Alt1 Alt2 Alt3	Attenuation Autotrophic variation
Alt1 Alt2 Alt3	Attenuation Autotrophic variation Symbiotic dependency
Alt1 Alt2 Alt3 Alt4	Attenuation Autotrophic variation Symbiotic dependency
Alt1 Alt2 Alt3 Alt4	Attenuation Autotrophic variation Symbiotic dependency Mutation and selection
Alt1 Alt2 Alt3 Alt4	Attenuation Autotrophic variation Symbiotic dependency Mutation and selection A symbiotic relationship/interaction in which 'one species benefits and the other species is not affected' is

Δlt3	Endomycorrhizae	
	Ectomycorrhizae	
Ait	Lettorrycorrinzae	
90	During mitosis Endoplasmic Reticulum and nucleolus begin to disappear at:-	
	Late Prophase	
	Early Metaphase	
	Early prophase	
Alt4	Late Metaphase	
90	When red blood corpuscles containing both A and B antigens are mixed with your blood serum, they	
	agglutinate. Hence your blood group is type.	
Alt1		
Alt2		
Alt3		
Alt4	AB	
91	Some viruses have increased the coding potential of their genome by:-	
Alt1	using alternative splicing sites	
Alt2	covalently linking a protein to the genome	
Alt3	Integrating into the host genome	
Alt4	using host ribosomes for translation	
92	Which of the following have characteristic intracellular inclusion bodies?	
	Mycoplasma	
Alt2	Chlamydia	
	Candida	
Alt4	E.coli	
93	Which of the following is true about a circular double stranded DNA genome that determined by chemical	
	means to be 21 %adenosine?	
Alt1	The genome is 29 % of guanosine	
	The genome is 69 % of guanosine	
	The genome is 21 % of guanosine	
	The genome is 10.5 % of guanosine	
7.110.1		
94	Type IV Hypersensitivity is called as:-	
	Anaphylactic	
	Immune Complex Mediated	
	Cytotoxic stimulating	
	Delayed or Cell mediated	
AIL4	Delayed of Cell Mediated	
٥٢	Carcinoma refers to:-	
	Malignant tumours of the connective tissue	
	Benign tumours of the connective tissue	
	Malignant tumours of the skin or mucous membrane	
Alt4	Malignant tumours of the colon	

96	Which of the following is applicable in the case of super antigen?
	Not recalled
Alt2	Needs to processed and presented to cleft of MHC
Alt3	Rapidly Stimulate Immune memory
Alt4	Directly attached to variable region of MHC
97	Which of the following is not involved in the processing of mRNA precursors in the eukaryotic cells?
Alt1	Transport of pre - mRNA to cytoplasm
Alt2	Capping of 5' end
Alt3	Addition of Poly A
Alt4	Excision of Introns
98	With respect to streptococcus all are true except:-
Alt1	Streptolysin O is active in reduced state
Alt2	Pyrotoxin A is plasmid mediated
Alt3	Streptodornase cleaves dna
Alt4	Streptokinase is produced from serotype strep. A,C,K
	Which of the following substances will not produce antibodies when injected into an animal?
Alt1	Bacterial polysaccharides
Alt2	DNA
Alt3	Dinitrophenol
Alt4	Actin
100	How would you prepare 2 ml of (0.2N of NaOH& 1 % SDS) Solution from the stock of 10 N NaOH & 10% SDS?
Alt1	100 & 20 lin 1.88Ml of H2O
Alt2	200 & 40 lin 1.76 Ml of H2O
Alt3	40 & 200 lin 1.76 Ml of H2O
Alt4	20 & 100 lin 1.88Ml of H2O