SOLAPUR UNIVERSITY, SOLAPUR ENTRANCE EXAM 2018 SUBJECT :- MICROBIOLOGY

Date :-05/06/2018 Time :- 10.30 to 12.00

Question paper with Answer Key

Note:- If any quiery on question paper and answer key please send mail to preexam@sus.ac.in upto 6.00 pm second day of exam.

Q.No.	1
Question	The Oxidase test is positive and used for identification of
A	Salmonella
В	Pseudomonas
C	Pneumococcus
D	Staphylococcus
Answer	В
Q.No.	2
Question	The interval period between HIV infection and appearance of antibodies in
	serum is called period.
A	Intrinsic
В	incubation
C	window
D	Interval
Answer	C
_	3
	On Mac Conkey's agar medium Esherichia coli species
n	formscolonies.
A	Colour less
	Greenish
	Pink
D A navyan	Yellow C
Answer	<u>C</u>
Q.No.	4
Question	
A	Aspergillus flavus
В	Penicillium spp
С	Corynebacterium
D	B. anthracis
Answer	A
L	l .

Q.No.	5
Question	Clostriduum is
A	gram positive and anaerobic
В	gram positive and aerobic
C	gram negative and anaerobic
D	gram negative and aerobic
Answer	A

Q.No.	6
Question	Production of Protein from RNA is called
A	Transcription
В	RNA splicing
С	Transposition
D	Translation
Answer	D

Q.No.	7
Question	Peptide bonds are formed between
A	Nucleotides
В	Amino acids
C	Glucose
D	sucrose
Answer	В

Q.No.	8
Question	The enzyme required for synthesis of RNA from DNA is
A	RNA polymerase
В	reverse transcriptase
C	DNA polymerase
D	terminal transferase
Answer	A

Q.No.	9
Question	A tissue graft or organ transplant from a donor of a different species from the
	recipient is called
A	allograft
В	autograft
С	Xenograft
D	syngenic graft
Answer	C

Q.No.	10
Question	Bacteria need to have organic molecules both for energy and as a source of
	carbon is called
A	Photo autotrophs
В	Photo heterotrophs
С	Chemo heterotrophs
D	Chemo autotrophs
Answer	С

Q.No.	11
Question	Sugar is transferred as a result of H gene in ABH blood group
	system.
A	Acetyl-galactosamine
В	Galactose
С	Fucose
D	Glucose
Answer	С

Q.No.	12
Question	In an autoimmune disease leukopenia antibodies are produced against
A	lymphocytes
В	RBC
С	Platelets
D	WBC
Answer	A

Q.No.	13
Question	Myeloma cells used in Hybridoma technique
A	have antibody production ability
В	lack HGPRT enzyme
С	have short life span
D	are long lived with antibody production ability
Answer	В

Q.No.	14
Q.No. Question	antibody has valancy Four
A	IgA
В	IgE
C	IgG
D	IgM
Answer	A

Q.No.	15
Question	Phage mediates restricted transduction.
A	λ
В	ф 80
C	P 22
D	T4
Answer	A

Q.No.	16
Question	Vancomycin antibiotic acts on synthesis.
A	Cell membrane
В	Nucleic acid
С	Protein
D	cell wall
Answer	D

Q.No.	17
Question	Hydrophobia is a symptom of
A	Rabies
В	filariasis
C	gas gangrene
D	hepatitis
Answer	A

Q.No.	18
Question	The ultimate electron acceptor in aerobic respiration is
A	Molecular Oxygen
В	NO_3
С	SO_4
D	Molecular nitrogen
Answer	A

Q.No.	19
Question	Viruses
A	Divide by binary fission
В	have their own metabolism
C	are obligatory intracellular parasites
D	contain enzymes only
Answer	С

Q.No.	20
Question	Viruses can be grown on
A	animal tissue culture
В	laboratory animal
C	embryonated hen's egg
D	all of these
Answer	D

Q.No.	21
Question	The source of restriction enzyme EcoRl is the bacterium
A	Bacillus amyloliquefaciens H
В	Haemophilus influenza
C	Escherichia coli
D	Arthrobacter luteus
Answer	C

Q.No.	22
Question	Organism fixes nitrogen symbiotically
A	Rhizobium
В	Azotobacter
C	Spirillum
D	Nostoc
Answer	A

Q.No.	23
Question	The distance between the neighbouring base pairs of DNA is A°
A	3.4
В	34
С	19.8
D	340
Answer	A

Q.No.	24
Question	The two strands of DNA helix are held together by
A	sulphide bonds
В	phosphate bonds
C	hydrogen bonds
D	van der waal force
Answer	C

Q.No.	25
Question	Ropiness in milk is mainly caused by
A	Saccharomyces cerevisiae
В	Cotrichum candidum
C	Alcaligens viscolactis
D	Proteus vulgaris
Answer	C

Q.No.	26
Question	is an initiation codon in translation process.
A	AUG
В	UUU
С	GUG
D	UAG
Answer	A

Q.No.	27
Question	Plasmids having very low molecular weight and do not carry any functional
	gene are calledplasmids.
A	virulence
В	cryptic
С	degenerative
D	col
Answer	В

Q.No.	28
Question	Biological specimen observed under a light microscope are usually have size
	of
A	1 nm to 100 nm
В	1 μm to 1 mm
С	100 nm to 1nm
D	0.1 nm to 100 nm
Answer	В

Q.No.	29
Question	In fermentation process agitation of the medium is done by using
A	antifoam oil
В	impellers
С	baffles
D	centrifugation
Answer	В

Q.No.	30
Question	Immunogenicity depends on
A	foreignness
В	chemical complexity
C	molecular size
D	all of these
Answer	D

Q.No.	31
Question	Bacteria in food are generally inhibited by % sodium chloride
A	1
В	5
С	0.5
D	0.1
Answer	В

Q.No.	32
Question	Histone proteins which are basic in nature are found in
A	prokaryotes
В	eukaryotes
C	viruses
D	actinomycetes
Answer	В

Q.No.	33
Question	Causative agent for bacillary dysentery is
A	E. Coli
В	Aspergillus
C	Salmonella
D	Shigella
Answer	D

Q.No.	34
Question	The method of DNA replication proposed by Watson and Crick is
A	semi conservative
В	conservative
С	dispersive
D	rolling loop
Answer	A

Q.No.	35
Question	Eutrophication causes a reduction of in the water body.
A	Carbon dioxide
В	oxygen
C	nitrogen
D	sulphur dioxide
Answer	B

Q.No.	36
Question	Cholera is regarded primarily asborne-infection
A	food
В	air
C	water
D	vegetable
Answer	C

Q.No.	37
Question	Alcohol fermentation is carried out using species.
A	Saccharomyces
В	Bacillus
C	Escherichia
D	Aspergillus
Answer	A

Q.No.	38
	If pathogenicity/ virulence of toxin is removed by heat or chemicals it is
	called
A	endotoxin
В	antitoxin
С	exotoxin
D	toxoid
Answer	D

Q.No.	39
Question	Souring of milk is the principle involved in the formation of
A	Cheese
В	Cream
С	Curd
D	Butter
Answer	A

Q.No.	40
Question	Erythoblastosis fetalis can be prevented if the mother is injected, at
	parturition(act of giving birth), with an antibody called
A	Blocking antibody
В	Anti Rh antibodies
С	Antilymphocyte globulin
D	Antithymocyte serum
Answer	В

Q.No.	41
Question	Universal acceptor is person with blood group
A	"O" negative
В	"A" negative
С	"B" positive
D	"AB" positive
Answer	D

Q.No.	42
Question	Monoclonal antibodies are used for the treatment of disease.
A	Blood cancer
В	Fungal diseases
C	Hepatitis A
D	Viral diseases
Answer	A

Q.No.	43
Question	Tetracycline and Streptomycin are spectrum antibiotics.
A	Narrow
В	Broad
C	Wide
D	Sometimes narrow
Answer	В

Q.No.	44
Question	During humoral immune response B cells differentiate into
	cells.
A	plasma
В	dentritic
С	cytotoxic
D	mast
Answer	A

Q.No.	45
Question	Microorganisms present in milk can be estimated by
A	MPN
В	SPC and DMC
С	Phosphatase
D	MBRT
Answer	В

Q.No.	46
Question	technique is used for primary screening of antibiotic producers.
A	Giant colony
В	Crowded plate
С	Indicator plate
D	Streak plate
Answer	В

Q.No.	47
Question	Oligodynamic effect is shown by
A	Heat
В	Heavy metals
С	Acids
D	Antibiotics
Answer	В

Q.No.	48
Question	There are codons which specify 20 amino acids.
A	64
В	61
C	16
D	20
Answer	B

Q.No.	49
Question	Canning means
A	Food spoilage method
В	Sterilization method of food
C	A preservative method of food
D	Food contamination method
Answer	D

Q.No.	50
Question	Irradiation of DNA to UV radiation forms dimers.
A	T=T
В	A=G
С	T=A
D	G=C
Answer	A

Q.No.	51
Question	The antibiotic resistance in the bacteria is conferred by plasmids.
A	F
В	Col
С	R
D	Ti
Answer	С

Q.No.	52
Question	Histamine is
A	Primary mediator of anaphylaxis
В	Secondary mediator of anaphylaxis
C	atopen
D	allergen
Answer	A

Q.No.	53
Question	The best method for culture preservation is by removing water at low
	temperature is called
A	Freezing
В	Cold storage
С	lyophilization
D	Dried spore mass
Answer	C

Q.No.	54
Question	Granulocytic cell which release histamine after IgE production is
A	Platelets
В	lymphocytes
С	RBC
D	Mast cells
Answer	D

Q.No.	55
Question	The feeling of general discomfort is called
A	Arthritis
В	symptom
C	malaise
D	pain
Answer	C

Q.No.	56
Question	In microbial interaction, only one microorganism is actually
	benefitted and the other one in unaffected.
A	Neutralism
В	Commensalism
С	Synergism
D	antagonism
Answer	В

Q.No.	57
Question	Enzymes are chemically
A	lipids
В	carbohydrates
C	proteins
D	None of these
Answer	C

Q.No.	58
Question	Typhoid is a born disease.
A	water
В	air
C	Animal
D	arthropod
Answer	A

Q.No.	59
Question	Pseudomonas is an example of
A	Gram positive bacteria
В	Gram negative bacteria
C	Actinomyces
D	virus
Answer	В

Q.No.	60
Question	The main product of glycolysis under aerobic condition is
A	Pyruvic acid
В	Lactic acid
С	None of these
D	Both a and b
Answer	A

Q.No.	61
Question	For the synthesis of amino acids Cysteine, cystine and Methionine the
	element required is
A	sulphur
В	oxygen
С	Nitrogen
D	None of these
Answer	A

Q.No.	62
Question	In an autoclave, the principle involved is
A	dry heat
В	moist heat
C	steam under pressure
D	both b and c
Answer	D

Q.No.	63
Question	Organism produces swarming growth on culture media is
A	Escherichia
В	Proteus
С	Klebsiella
D	Shigella
Answer	В

Q.No.	64
Question	Blood agar medium is medium
A	selective
В	enriched
С	differential
D	both b and c
Answer	D

Q.No.	65
Question	Presence of swelling, redness, pain, fever, necrosis and loss of function of
	organ is called
A	Inflammation
В	Infection
С	Immunity
D	Pathogenicity
Answer	A

Q.No.	66
Question	The first antibody to contact invading microorganism is
A	IgG
В	IgM
С	IgA
D	IgD
Answer	B

Q.No.	67
Question	is NOT a viral disease.
A	Hepatitis A
В	Rabies
C	Syphilis
D	HIV
Answer	С

Q.No.	68
Question	is acid fast bacterium.
A	Neisseria gonorrhoeae
В	Staphylococcus aureus
C	Mycobacterium tuberculosis
D	Klebsiella pneumoniae
Answer	C

Q.No.	69
Question	The main difference in bacteria and mycoplasma is that mycoplasma does
	not possess
A	flagella
В	cell wall
С	ATP synthesis
D	capsule
Answer	В

Q.No.	70
Question	bacterium is most commonly used in genetic engineering.
A	Serratia
В	Proteus
С	Klebsiella
D	Escherichia
Answer	D

Q.No.	71
Question	1 mm (millimetre) = ? nm (nanometer)
A	10^3 nm
В	10^6 nm
С	10^2 nm
D	10^4 nm
Answer	В

Q.No.	72
Question	BLAST is tool
A	sequence matching
В	analysis
C	evolutionary
D	none of these
Answer	В

Q.No.	73
Question	Cytokines
A	are lymphokines
В	are monokines
C	help to control ®ulate immune response
D	all of these
Answer	D

Q.No.	74
Question	Autoantibodies against acetyl-choline receptors are produced in
A	Rheumatoid arthritis
В	Myasthenia gravis
C	Goodpasture's syndrome
D	Pernicious anaemia
Answer	В

Q.No.	75
Question	VDRL test is used for the diagnosis of
A	Typhoid fever
В	AIDS
C	Syphilis
D	Hepatitis
Answer	C

Q.No.	76
Question	Presence of Negri bodies in the brain is sign of
A	Rabies
В	Herpes
С	HIV
D	Hepatitis B
Answer	A

Q.No.	77
Question	Net gain of ATP yield per glucose molecule in aerobic respiration is
	molecules
A	2
В	12
С	8
D	38
Answer	D

Q.No.	78
Question	The resolving power of an optical microscope is
A	0.2 μm
В	0.2 A^{0}
C	0.2 nm
D	0.2 mm
Answer	A

Q.No.	79
Question	The reduction of virulence of a microorganism is known as
A	Attenuation
В	Exaltation
С	Inactivation
D	Tyndalization
Answer	A

Q.No.	80
Question	enzyme plays important role in sealing of Okazaki fragments of
	lagging stand.
A	helicase
В	topoisomerase
С	DNA-ligase
D	DNA polymerase
Answer	С

Q.No.	81
Question	Organisms utilizing sunlight as a source of energy and CO2 as a source of
	carbon are called
A	photoautotrophs
В	Photoheterotrophs
С	Chemoautotrophs
D	Chemoheterotrophs
Answer	A

Q.No.	82
Question	In animal, the complement is present in maximum amount in
	-
A	Mice
В	Monkey
С	Guinea pig
D	Horse
Answer	С

Q.No.	83
Question	bacterium is a motile due to presence of flagella on its surface.
A	Salmonella
В	Klebsiella
С	Shigella
D	Staphylococcus
Answer	A

Q.No.	84
Question	Techoic acids and Teichuronic acids are found in
A	gram positive bacteria
В	gram negative bacteria
C	fungi
D	rickettsia
Answer	A

Q.No.	85
Question	A / A n is the rapid spread of infectious <i>disease</i> to a large
	number of people in a given population within a short period of time.
A	sporadic
В	pandemic
С	epidemic
D	endemic
Answer	С

Q.No.	86
Question	occurs when a person's immune system reacts to substances
	in the environment those are harmless for most people.
A	immunological tolerance
В	autoimmunity
С	homograft rejection
D	allergy
Answer	D

Q.No.	87
Question	T- Helper cells carry molecules as its specific marker.
A	CD4
В	CD8
С	CD9
D	CD3
Answer	A

Q.No.	88
Question	Clonal selection hypothesis (theory) of antibody production was put forth by
A	Kohler & Milstein
В	Burnet
С	Fenner
D	Landsteiner
Answer	A

Q.No.	89
Question	Humoral Immunity is mediated by
A	B cells
В	macrophages
C	dentritic cells
D	cytotoxic T cells
Answer	A

Q.No.	90
Question	Split genes consists of
A	exon
В	intron
C	both a) and b)
D	broken DNA
Answer	C

Q.No.	91
Question	Bombay phenotype (Oh) can be detected by using
A	Anti A
В	Anti B
С	Anti D
D	Anti H
Answer	D

Q.No.	92
Question	Antibodies which are big and are produced in primary immune response are -
	class.
A	IgG
В	IgE
С	IgM
D	IgD
Answer	C

Q.No.	93
Question	DNA transfer from one bacterium to another through phages is termed as
A	Induction
В	transformation
С	transduction
D	conjugation
Answer	C

Q.No.	94
Question	HLA complex of man is located on short arm of chromosome number
A	6
В	2
С	22
D	20
Answer	A

Q.No.	95
Question	are best antigen due to chemical complexity.
A	Carbohydrate
В	Lipids
C	Nucleic acids
D	Proteins
Answer	D

Q.No.	96
Question	Which of the following is used as fusion enhancing agent while getting
	hybridoma cells?
A	Polyethyleneglycol (PEG)
В	Polyphenol alcohol
С	Surfactants
D	Hydrocarbons
Answer	A

Q.No.	97
Question	test is used for diagnosis of typhoid fever.
A	Widal
В	VDRL
C	ELISA
D	Western blot
Answer	В

Q.No.	98
Question	Mast cells after degranulation release
A	antibodies
В	histamine
C	cytokines
D	class I molecules
Answer	B

Q.No.	99
Question	is antibody producing cell.
A	Eosinophil
В	Monocytes
С	lymphocyte
D	NK cells
Answer	С

Q.No.	100
Question	Which of the following test is well-known test for diagnosis of Syphilis?
A	Widal test
В	MHA test
C	FTA test
D	VDRL test
Answer	D