1. According to Pasteur statements which one of the following is true

- a. Living organisms discriminate between stereoisomers
- Fermentation is a aerobic process
- Living organisms doesn't discriminate between stereoisomers
- d. Both a and b
- "I found floating therin earthly particles, some green streaks, spirally wound serpent-wise, and orderly arranged, the whole circumstance of each of these streaks was abut the thickness of a hair on one's head".... These words are of
 - Leeuwenhoek
- b. A. Jenner
- c. Pasteur
- d. Koch
- The principle light- trapping pigment molecule in plants, Algae, and cyanobacteria
 - Chlorophyll a
- b. Chlorophyll b
- c. Porphyrin
- d. Rhodapsin
- 4. During Bio Geo chemical cycle some amount of elemental carbon was utilized by the microorganisms. The phenomenon is called as
 - Dissimilation
 - Immobilization
 - Decomposition
 - Neutralization

- Who demonstrated that open tubes of broth remained free of bacteria when air was free of dust.
 - a. Abbc Spallanzani b. John Tyndall
 - d. Pasteur Francisco Redi
- Reverse isolation would be appropriate
 - a patient with tuberculosis
 - b. a patient who has had minor surgery
 - a patient with glaucoma
 - d. a patient with leukemia

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- 7. The symptome " general feeling of I...... and discomfort " is called
 - a. Cystitis
- b. Malaise
- Anaphylactic shockd. Arthritis
- 8. On soybean which of the following forms symbiotism
 - a. Azatobactor paspali
 - Rhizobium
 - c. Nostoc
 - d. Bradyrhizobium
- Who provide the evidence that bacteriophage nucleic acid but not protein enters the host cell during infection
 - a. Alfred D.Hershey & Leonard Tatum in 1951.
 - Alfred D.Hershey & Zindar Lederberg in 1951.
 - Alfred D.Hershey & Martha Chase in 1952.
 - d. Alfred D.Hershey & Macleod in 1952.

Biological science

Spirulina belongs to

- a. Xanthophyceae
- b. Cyanophyceae
- c. Rhodophyceae
- d. Pheophyceae
- The first antibody to contact invading microorganisms was
 - a. IgG
- b. IgM
- c. lgA
- d. IgD
- The light emitted by luminescent bacteria is mediated by the enzyme
 - a. Coenzyme Q
 - b. Luciferase
 - Lactose dehydrogenase
 - d. Carboxylase reductase
- 13. Pick out the vector using in human Genome project
 - a. Phagemid vector
 - Yeast artificial chromosomes

- 19. The image obtained in a compound microscope is
 - a. Real
- b. Virtual
- c. Real inverted
- d. Virtual inverted
- 20. Enzymes responsible for alcoholic fermentation
 - a. Ketolase
- b. Zymase
- Peroxidase
- d. Oxidase
- 21. Which type of spores are produced sexually?
 - a. Conidia
- b. Sporangiospores
- Ascospores
- d. None of these
- Bacterial transformation was discovered by
 - a. Ederberg and Tatum
 - Beadle and Tatum
 - Griffith
 - d. None of these

- c. Cosmid vectors d. Yeast episomal plasmids
- 14. Salt and sugar preserve foods because they
 - a. Make them acid
 - b. Produce a hypotonic environment
 - c. Deplete nutrients
 - d. Produce a hypertonic environment
- 15. In a fluorescent microscope the objective lens is made of
 - a. Glass
- b. Quartz
- c. Polythene
- d. None of these
- Fixation of atmospheric nitrogen is by means of
 - Biological process b. Lightining
 - c. Ultraviolet light d. All of the above
- 17. Which one of the following fungi is the most serious threat in a bone marrow transplant unit?
 - a. Candida albicans b. Aspergillus
 - d. Cryptococus c. Blastomyces
- 18. Direct microscopic count can be done with the ald of
 - a. Neuberg chamber b. Anaerobic chamber
 - d. Olive oil c. Mineral oil

- 23. Father of microbiology is
 - b. Lister a. Louis Pasteur
 - A.V. Leeuwenhock d. Robert Koch
- 24. The antiseptic method was first demonstrated by
 - a. Lwanowski
- b. Lord Lister
- c. Edward Jenner
- d. Beijerinck
- Small pox vaccine was first discovered by
 - a. Robert Koch
- b. Louis Pasteur
- c. Lister
- d. Edward Jenner
- 26. The term mutation was coined
 - a. Pasteur b. Darwin
 - d. Lamark c. Hugo devries
- Compound microscope was discovered by
 - a. Antony von
- b. Pasteur
- c. Johnsen & Hans
- d. None of these
- 28. Father of Medical Microbiology is
 - a. Pasteur
- Jenner
- c. Koch
- d. A.L.Hock
- 29. Disease that affects many people at different countries is termed as
 - a. Sporadic
- b. Pandemic
- c. Epidemic
- d. Endemic

Biological sciences

- 30. Prophylaxis of cholera is
 - a. Protected water supply
 - Environmental sanitation
 - Immunization with killed vaccines
 - d. All of these
- 31. In electron microscope, what material is used as an objective lense?
 - a. Magnetic coils
 - b. Superfine glass
 - c. Aluminium foils
 - d. Electrons
- 32. The main feature of prokaryotic organism
 - a. Absence of locomotion
 - b. Absence of nuclear envelope
 - c. Absence of nuclear material
 - d. Absence of protein synthesis
- The stalked particles on the cristae of mitochondria are called
 - a. Glyoxysomes
- b. Peroxisomes
- c. Oxysomes
- d. Spherosomes

- Tuberculosis is a
 - a. Water borne disease
 - b. Air borne disease
 - Food borne disease
 - d. Atthropod borne disease
- Phagocytic phenomenon was discovered by
 - a. Louis Pasteur
- Alexander Fleming
- Metchnikof
- d. Robert Koch
- 41. Meosomes are also known as
 - a. Mitochondria
 - Endoplasmic reticulum
 - c. Plasmids
 - Chondroids
- Hybridoma technique was first discovered by.
 - a. Kohler and Milstein
 - Robert Koch
 - c. 'D' Herelle
 - Land Steiner
- 43. The minimum number of bacteria required to produce clinical evidence of

35.	Kuru disease in Humans is caused by	44. In Electron Microscope sou	rce of electrons	
	a. Bacteria b. Viroides	is from		
	c. Prions d. Mycoplasma	a. Mercury lamp b. Tu	ingsten metal	
36.	A mutation that produces termination	c. both a and b d. No	one of these	
	codon is	45. Griffith (1928) reported the phenomenon		
	a. Mis-sense mutation	of transformation first in	of transformation first in	
	b. Neutral mutation	a. H. influenzae b. Bo	acillus species	
	c. Non-sense mutation	c. Pneumococci d. E.	coli	
	d. Reverse mutation	46. The resolution power of	the compound	
37.	During conjunction the genetic material will be transferred through	microscope is		
		а. 0.2 micron b. 0.	2 millime:	
	a. Cell wall b. Medium	c. 0.2 Angstrom units d. 0.	.2 cent 18	
	c. Pili d. Capsule	47. The capacity of a given str	10	

Antiseptic surgery was discovered by

- a. Joseph Lister
- Ernest Abbe
- c. Pasteur
- d. Beijerink

species to produce disease is known as a. Pathogen b. Virulence d. None of these c. Infection

Biological science

48. Monoclonal antibodies are associated with the name of

- a. Burnet
- b. Medwar
- c. Milstein kohler
- d. Owen

49. Lederberg and Tatum (1946) described the phenomena of

- a. Conjunction
- b. Transformation
- c. Mutation
- d. Plasmids

50. Hanging drop method for motility study was first introduced by

- a. Robert Koch
- b. Louis Pasteur
- c. Jenner
- d. Leeuwenhock

51. Electron microscope gives magnification upto

- a. 100 X
- b. 2000 X
- c. 50,000 X
- d. 2,00,000 X

52. Term vaccine was coined by

- a. Robert Koch
- b. Pasteur
- c. Needham
- d. None of these

53. The inventor of Microscope is

- Galileo
- b. Antony von
- c. Pasteur
- d. Koch

54. First Pasteur conducted fermentation experiments in

- a. Milk
- b. Food material
- c. Fruit juices
- d. Both a and c

55. Modern concepts of chemotherapy was

- 58. The causative organism of rocky mountain spotted fever was first described by
 - Howard Ricketts b. da Rocha-lima
 - d. Robert Koch c. Both a and b

The term bacteriophage was coined by

- De'Herelle
- b. F.W. Twort
- Beijernick

- d. Jwanosky

Viral infection of bacteria was discovered by

- De'Herelle
- F.W. Twort
- c. Beijernick
- d. Jwanoksy

Eye cannot resolve any image less than

- 1 im
- b. 2im
- c. 7im
- d. 5im

62. Compound Microscope was discovered by

- a. A.V. Lewenhoek
- b. Pasteur
- c. Janssen and Hans d. None of these

63. Electron Microscope was discovered by

- a. Prof. Fritz
- b. Janssen and Hans
- Knoll and Ruska

- d. None of these

64. Magnification range of light microscope is

- a. 1000x 5000x
 b. 1000x 2000x
- c. 500x 1000x
- d. None of these

Condensation of light in light Microscope is by

- a. Objective
- b. Condensor
- c. Ocular
- d. All of these

 a. Objective b. Condensor d. Both a and c c. Fruit juices c. Ocular d. All of these 55. Modern concepts of chemotherapy was 66. Light gathering capacity of Microscope is proposed by a. Paul Ehrlich b. Joseph Lister a. Numerical aperture b. Angular aperture d. None of these Elie Metchnikoff c. Both a and b d. None of these The role of phagocytosis was discovered 67. If 10x and 40x objectives are used (air is by the medium), the numerical aperture is b. Joseph lister a. Paul Ehrlich a. 1.5 b. 2.0 Elie Metchikoff d. Pasteur d. 1.8 c. 1.0 L – forms are discovered by 68. The ability of Microscope to d a. Klein Berger two objects into two separate Louis Pasteur called. c. Robert Koch a. Resolving power b. Wave length d. Antony von Leeuwenhock d. None of these c. N.A. Biological sciences 69. Limit of resolution of compound micro-Primary mediators in anaphylaxis scope is b. Seratonin a. Histamine a. 0.018 A^a b. 0.1 mm d. All of these Heparin c. 5 im d. 1 mm 80. Arthus reaction was discovered by 70. Source of light in fluorescence microscopy a. Marrice Arthus b. Von Perquit is from d. Porter Richet a. Mercury lamp b. Sunlight Serum sickness reaction was discovered c. Both a and b d. None of these by 71. Who perfected a magnetic lens in 1927 Marrice Arthus b. Von perquit a. Gabor Broglie d. Porter Richet d. None of these c. Busch 82. Hybridoma technique was developed by 72. The magnefication power of electron Kochler & Milston b. Niel's Jerne microscope developed by Knell and c. Both a and b d. None of these Ruska is 83. Disease that effects many people at a. 10,000x b. 12,000x different countries is termed as d. 20,000x c. 15,000x a. Sporadic b. Pandemic 73. In electron microscope source of electrons c. Epidemic d. Endemic is from 84. If the vectors transmit the infection a. Mercury lamp b. Tungsten metal mechanically they are called d. None of these c. Both a and b a. Biological vectors 74. The electron passed out from the b. Mechanical vectors specimen are called c. Biological reservoir a. Primary electrons
 b. Secondary electrons d. Both a and c c. Tertiary electrons d. None of these 85. If a person can be infected by direct 75. Mycorrhiza was first observed by contact with infected tissue of another person, it is termed as a. Funk b. Frank c. Fisher d. Crick a. Indirect contact transmission

Attachment

Direct contact transmission

76. The transfer of genetic material during

is by

a. Milk

b. Food material

- 76. The transfer of genetic material during transformation is proved basing on Griffith's experiment by a. Avery Macleod & Mc.Carthy

 - b. Lederberg & Taulum
 - Zinder & Lederberg
 - d. Watson & Crick
- 77. Phagocytic theory was proposed by
 - a. Louis Pasteur
- b. Elie Metchnikoff
- Behring
- d. Widal
- 78. Anaphylaxia was first observed by
 - a. Parter & Richet
- b. Coombs
- c. Gell
- d. None of these

- Attachment
- Direct contact transmission
- d. None of these
- Reduction of virulence is known as
 - a. Exaltation
- Attenuation
- c. Both a and b
- d. None of these
- 87. Enhancement of virulence is known as
 - a. Exaltation
- Attenuation
- c. Both a and b
- d. None of these
- 88. The virulence of a pathogen is usual measured by
 - a. LD
- b. MID
- c. ID
- d. All of 20

Biological science

- 89. The lethal dose required to kill 50% of the lab animals tested under standard called
 - a. ID
- LD₅₀
- c. ID₅₀
- d. MLD
- 90. The most important virulence factors are
 - a. Adhesions
- b. Invasiveness
- Toxigenicity
- d. Enzymes
- e. All of the above
- The ability of a pathogen to spread in ths host tissues after establishing the infection is known as
 - a. Adhesion
- b. Invasiveness
- Toxigenicity
- d. None of these
- 92. Which is the following enzyme acts as a spreading factor?
 - a. Hyaluronidase
- b. Coagulase
- c. Catalase
- d. DNase
- Vibrio Cholerae was discovered by
 - a. Koch
- b. Metchnikoff
- John Snow
- d. Virchow
- 94. E.coli was first isolated by
 - a. Louis Pasteur
- Escherich
- c. Shiga
- d. Robert Koch
- 95. Mycobacterium tuberculosis was first discovered by
 - a. Robert Koch
- Edward Jenner
- c. Louis Pasteur
- d. None of these
- Mycobacterium lepree was discovered by
 - a. Robert Koch
- b. Hansen
- Edward Jenner
- d. Louis Pasteur
- 97. Streptococcus pneumoniae was isolated by

- Staphylococcus aureus was isolated b
 - a. Rosenbach
 - Louis Pasteur
 - c. Passet
 - d. Sir Alexander Ogston
- 100. Pseudomonas aeruginosa was fir
 - a. Schroeter and Gessard
 - b. Robert Koch
 - Louis Pasteur
 - d. Edward Jenner
- 101. T. pallidum was discovered by
 - a. Robert Koch
 - b. Schaudinn and Hoffman
 - c. Louis Pasteur
 - d. Edward Jenner
- Neisseria gonorrhoeae was first describe by
 - Neisser in 1879
- b. Pasteur in 1878
 - c. Robert Koch d. None of these
- 103. Rh factor of the blood was discovered be scientist
 - a. Louis Pasteur
 - b. Landsteiner and Weiner
 - c. Janskey
 - d. Moss
 - e. None of these
- Trepanema pallidum was discovered b
 - a. Schaudinn and Hoffman
 - Louis Pasteur
 - Burgey
 - d. Laennec

26. Mycobacterium lepree was discovered by

- a. Robert Koch
- b. Hansen
- c. Edward Jenner
- d. Louis Pasteur

97. Streptococcus pneumoniae was isolated by

- a. Robert Koch
- Edward Jenner
- c. Antony von Leewenhock
- d. Louis Pasteur

B.anthracis was isolated by 98.

- a. Louis Pasteur
- Robert Koch
- Antonyvon Leewenhok
- d. None of these

104. Trepanema pallidum was discovered by

- Schaudinn and Hoffman
- b. Louis Pasteur
- Burgey
- Laennec
- None of these

105. Fluroscent substance used in fluorescent microscopy are

- a. Quinine sulphate b. Auramine
- c. All of these d. None of these

Biological sciences

NSWERS

1. a
7. b
13. b
19. b
25. d
31. a
37. c
43. c
49. a
55. a
61. d
67. c
73. b
79. d

85. c

91. b

97. d

103. b

2. a 8. d 14. d 20. b 26. c 32. b 38. a 44. b 50. d 56. c 62. c 68. a 74. b 80. a 86. b

92. a

98. b

104. a

15. c 21. c 27. c 33. b 39. b 45. c 51. d 57. a 63. c 69. b 75. b 81. b 87. a

93. b

99. b

105. c

3. a

9. c

10. b 16. d 22. a 28. c 34. a 40. c 46. a 52. b 58. c 64. b 70. a 76. a 82. c 88. d

4. b 5. b 6. a 11. b 12. c 17. b 18. a 23. c 24. b 29. b 30. b 35. c 36. c 41. d 42. a 47. b 48. a 53. b 54. c 59. a 60. b 65. b 66. a 71. a 72. b 77. b 78. a 83. a 84. b 89. b 90. e 96. b 94. b 95. a 100. a 101. b 102. b