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VERBAL

Choose the word most similar in meaning to the capitalized ones.

1. VEIL:

- A. conceal
- B. disclose
- C. uncover
- D. beauty

2. RECREATION:

- A. business
- B. labor
- C. profession
- D. hobby

Four lettered pairs (A to D) follow a related pair of words given in capitals. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capitals.

3. CURATOR: ART::

- A. archivist: documents
- B. referee: laws
- C. physician: research
- D. raconteur: stories

4. STRAY: GROUP::

- A. improvise: suggestion
- B. slur: pronunciation
- C. delete: change
- D. digress: subject

5. FIRM: IRONCLAD::

- A. bruised: broken
- B. polished: shining
- C. smart: brilliant
- D. hard: stiff

Complete the sentences by choosing the most appropriate word, from the given lettered choices (A to D) below each.

6.	The	director	of pu	rchas	sing
	ca	n	the	best	price.

- A. negotiable
- B. negotiate
- C. negotiator
- D. negotiation

7.	Your	speech	was	not	relevant
		th	e top	oic.	

- A. by
- B. with
- C. to
- D. about

8.	It is	rather than	moderate	
	inflation	that distorts p		
	sends economies tumbling.			

- A. a galloping inflation rate
- B. because a galloping inflation rate
- C. by a galloping inflation rate
- D. an inflation rate is galloping

9. The world is	a	serious	energy
problem.			- av

- A. heading
- B. braving
- C. facing
- D. confronting



- 10. ____ of human resources is interviewing applicants. .
 - A. Director
 - B. The directors
 - C. The director
 - D. Directors

PHYSICS

- 11. The earth's magnetic field:
 - A. Varies in both magnitude and direction
 - B. Is centered exactly on the centre of the earth
 - C. Varies in magnitude but not in direction
 - Varies in direction but not magnitude
- 12. Electromagnetic waves travel in vacuum with speeds that are:
 - A. equal to speed of light
 - B. near to speed of light
 - C. greater than speed of light
 - D. lesser than speed of light
- 13. The gravity at the center of earth is called:
 - A. 10
 - B. 1
 - C. Infinity
 - D. Zero
- 14. Newton's second law gives information of
 - A. Force
 - B. Acceleration
 - C. Mass
 - D. Both B and C

- 15. The shortest distance between two points is:
 - A. Distance
 - B. Displacement
 - C. Speed
 - D. velocity
- 16. The slope of the distance time graph gives:
 - A. Acceleration
 - B. Speed
 - C. Intensity of light
 - D. Power
- 17. Rate of doing work is called:
 - A. Energy
 - B. Power
 - C. Momentum
 - D. Impulse
- 18. When a wave enters from rare to denser medium then which quantity will remain the same?
 - A. Wavelength
 - B. Velocity
 - C. Both an and b
 - D. frequency
- 19. At the highest point during the upward motion of object, the value of kinetic energy of body is:
 - A. Zero
 - B. 10
 - C. 1
 - D. Infinity



20. First law of motion is also called:

- A. Law of inertia
- B. Law of mass
- C. Law of body
- D. Law of surface

21. Static friction is independent of:

- A. Area of contact
- B. Nature of surface
- C. Both A and B
- D. Applied force

22. The study of motion of body is called:

- A. Mechanics
- B. Heat
- C. Light
- D. Sound

23. The value of pressure decreases as:

- A. Height decreases
- B. Height increases
- C. Independent of height
- D. Depth decreases

24. Light has various unique properties, sometimes behaving like a wave and sometimes behaving like a particle. Name experiment(s) that demonstrates light behaving like a wave.

- A. Photoelectric Effect
- B. Young's Double Slit Interference
- C. Doppler's Effect
- D. Both A and B

25. Which of the following is scalar quantity?

- A. Speed
- B. Displacement
- C. Velocity
- D. Force

26. The electric potential is zero:

- A. Midway between two equal charges of same sign
- B. Midway between any two charges of opposite sign
- C. Inside a conductor
- D. At any point to equal distances from equal charges of opposite sign

27. The unit of co-efficient of friction is:

- A. joule
- B. No unit
- C. Newton
- D. Coulomb
- 28. A steel wire 12 mm in diameter is fastened to a log and then pulled by tractor. The length of steel wire between the log and the tractor is 11 m. A force of 10, 000 N is required to pull the log. What is the stress in the wire?
 - A. 44.12 MPa
 - B. 66.15 MPa
 - C. 77.29 MPa
 - D. 88.46 MPa

29.	Electromagnetic	waves travel in seeds that are:
	vacuum with	

- A. equal to speed of light
- B. near to speed of light
- C. greater than speed of light
- D. lesser than speed of light

30. The value of pressure decreases as:

- A. Height decreases
- B. Height increases
- C. Independent of height
- D. Depth decreases

31. Which of the following pairs are both scalar quantities?

- A. Speed and mass
- B. Volume and weight
- C. Time and acceleration
- D. Energy and force
- 32. If an object's mass and the net force it feels are both known, then Newton's Second Law could be used to directly calculate which quantity?
 - A. Displacement
 - B. Velocity
 - C. Acceleration
 - D. Linear momentum
- 33. An object moving through a fluid experiences a retarding force known as drag force. The drag force _____ as the speed of the object ______.
 - A. decreases ... decreases
 - B. decreases... increases
 - C. increases ... decreases
 - D. increases ... increases

- 34. An object is placed 20 cm from a diverging lens. If the distance between the lens and the image is 8 cm, what is the magnification?

 - B. 2
 - C. 1
 - D. 2
 - 35. Light has various unique properties, sometimes behaving like a wave and sometimes behaving like a particle. Name experiment(s) that demonstrates light behaving like a wave.
 - A. Photoelectric Effect
 - B. Young's Double Slit Interference
 - C. Doppler's Effect
 - D. Both A and B
 - 36. If an object is placed 30 cm from a convex lens whose focal length is 15 cm, the size of the image compared to the size of the object will be approximately:
 - A. more than twice as large
 - B. 1.5 times as large
 - C. smaller
 - D. the same
 - 37. Those waves in which the part of medium have displacemen along the direction of propagations of waves are k as:
 - A. Longitudinal waves
 - B. Transverse waves
 - C. Simple waves
 - D. Mechanical waves



- 38. A pipe has a length of 1m. Determine the frequencies of the fundamental and first two harmonic oscillations if the pipe is opened at both ends. (speed of sound in air = 340 m/s)
 - A. 170 Hz, 340 Hz, 510 Hz
 - B. 120 Hz, 220 Hz, 390, Hz
 - C. 90 Hz, 230 Hz, 440 Hz
 - D. 210 Hz, 410 Hz, 510 Hz
 - 39. At points where the displacements of two waves cancel each other's effect, the path difference is an odd integral multiple of half the wavelength. This effect is known 25:
 - A. Constructive interference
 - B. Destructive interference
 - C. Stationary interference
 - D. Simple interference
 - 40. A steel wire 12 mm in diameter is fastened to a log and then pulled by tractor. The length of steel wire between the log and the tractor is 11 m. A force of 10, 000 N is required to pull the log. What is the stress in the wire?
 - A. 44.12 MPa
 - B: 66.15 MPa
 - C. 77.29 MPa
 - D. 88.46 MPa

CHEMISTRY

- 41. All substance has the same value of
 - A. Ambient temperature
 - B. Optimum temperature
 - C. Absolute zero temperature
 - D. Very low temperature
 - 42. At any point on the inversion curve, Joule-Thomson co-efficient
 - A. Equal to zero
 - B. Greater than one
 - C. Smaller than one
 - D. Equal to infinity
 - 43. Lewis relationship is directly concerned with both:
 - A. Heat and mass transfer
 - B. Energy and mass transfer
 - C. Momentum and heat transfer
 - D. Temperature and heat transfer
 - 44. In fertilizer plant, urea is finally obtained:
 - A. At high temperature
 - B. At low pressure
 - C. In liquid form
 - D. In vapor form
 - the volume 45. According to of given mass of gas is directly proportional to the temperature of a gas at a given constant pressure.
 - A. Gas law
 - B. Boyles law
 - C. Charles law
 - D. Avogadro's law

III

46. The pressure inside the Crook's tube

- 50. The rate of chemical reactions at constant temperature is directly proportional to the active concentrations of the reactants
 - A. Le-Chatlier's Principle B. The Distribution Law

 - C. Law of Constant Proportions D. Law of Mass Action
- 51. The lowest whole number ratio of elements present in a compound can be practically depicted by
 - A. Formula mass
 - B. Molecular mass
 - C. Formula unit
 - D. Empirical formula
- 52. One gram molecular mass is possessed by:
 - A. One mole of calcium chloride
 - B. One mole of sodium chloride
 - C. One mole of carbon atom
 - D. One mole of water
- 6.02 x 1023 molecules of water are equivalent to:
 - A. One gram formula of water
 - B. One gram formula of sodium chloride
 - C. One gram formula of sulphuric D. One gram molecular mass of
 - carbon

- 54. Alkali metal that is expected to react most vigorously with cold water, is:
 - A. Lithium
 - B. Sodium
 - C. Potassium
 - D. Calcium
- 55. With the aqueous solution of sodium chloride, potassium metal will react through a:
 - A. Decomposition reaction
 - B. Displacement reaction
 - C. Combustion reaction
 - D. Neutralization reaction
 - 56. Alkaline earth metals violently react with halogen to give metal halides, through a:
 - A. Decomposition reaction
 - B. Redox reaction
 - C. Combustion reaction
 - D. Displacement reaction
 - 57. By passing fluorine gas through aqueous solution of sodium chloride:
 - A. No react will occur
 - B. Pale yellow gas will liberate
 - C. Reddish brown fumes will liberate
 - D. Greenish yellow gas will liberate
 - 58. Maximum number of electron accommodated by M-shell, is:
 - A. 4
 - B. 5
 - C. 10
 - D. 18

- 59. Tendency of an element to become negative, can be best measured in
 - A. Shielding effect

 - B. Ionization energy C. Electro negativity
 - D. Electro affinity
 - 60. Presence of free mobile electrons. is a characteristic feature of:
 - A. Ionic bonding
 - B. Metallic bonding
 - C. Covalent bonding
 - D. Dative bonding
 - 61. Phenomenon of allotropy is particularly shown by:
 - A. Oxygen and sulphur
 - B. Carbon and sodium
 - C. Helium and hydrogen
 - D. Potassium and calcium
 - 62. Physical property that is typically and predominantly dependant on surface area of the matter, is:
 - A. Evaporation
 - B. Vapor pressure
 - C. Surface tension
 - D. Boiling point
 - 63. Mass per unit of a substance can be determined in terms of:
 - A. Vapor pressure
 - B. Surface tension
 - C. Weight
 - D. Density

64. Rate of diffusion is particularly limited by

- A. Boiling point and melting point of substance
- B. Evaporation and vapor pressure of substance
- C. Temperature and vapor pressure of particles
- D. Size and kinetic energy of particles

65. At constant temperature. compressibility of a gas is greatly dependent upon:

- A. Pressure applied on the gas
- B. Atmospheric pressure
- C. Mobility of gas molecules
- . D. Diffusion rate of the gas

66. Solute proportion of a solution can be best governed by measurement of:

- A. Molarity
- B. Molality
- C. Concentration
- D. Partial fraction

67. Solubility of the majority of substance is predominantly effected by:

- A. Pressure
- B. Vapor pressure
- C. Temperature
- D. Surface tension

68. Numerical value of equilibrium constant can be compared with numerical value of reaction constant, in order to determine:

- A. Active masses of products
- B. Rate of forward reaction
- C. Rate of backward reaction
- D. Extent of reaction

69. Active mass of a pure substance is

- A. Equal to one
- B. Less than one
- C. Greater than one
- D. Negative

70. Irreversible reactions are generally associated with:

- A. Moderate value of chemical equilibrium constant
- B. Large value of chemical equilibrium constant
- C. Small value of chemical equilibrium constant
- D. Negative value of reaction constant

71. Ringworm disease in man is caused by:

- A. Trichosporon
- B. Aspergillus
- C. Sporobolomycus
- D. Microsporum



72. A facultative parasite is:

- A. An obligate saprophyte
- B. Parasitic but can live as saprophyte
- C. Normally a saprophyte
- D. Normally a saprophyte but can live as parasite under favorable conditions

73. Phyllode is a modified:

- A. Leaf
- B. Petiole
- C. Stem
- D. Branch

74. The phenomenon of 'sulphur shower' is found in:

- A. Mosses
- B. Cyeas
- C. Dryopteris
- D. Pinus

75. The cauliflower used as a vegetable is:

- A. A bunch of fertile flowers
- B. An undifferentiated compaction of leaves
- C. A fleshy inflorescence
- D. None of the above

76. The common phase between aerobic and anaerobic respiration is called:

- A. Tricarboxylic acid cycle
- B. Oxidative phosphorylation
- C. Embeden Meyerhof-Parnas pathway or Glycolysis
- D. Kreb's cycle

77. Niche represents:

- A. Habitats
- B. Microhabitats
- C. Habitat as well as interrelations
- D. Habitat as well as climates

78. The relationship between one species and another within a community that has evolved through interaction is based upon:

- A. Requirement and mode of obtaining food only
- B. Requirement and mode of obtaining shelter only
- C. The habits of the species only
- D. All of the above

79. Genetically engineered bacteria have been used in commercial production of:

- A. Thyroxine
- B. Testosterone
- C. Human insulin
- D. Melatonin

80. Photochemical smog always contains:

- A. PAN and O3
- B. CH and O3
- C. CO and O3
- D. PAN and CH.

81. The UV-rays in atmosphere are checked by:

- A. 0₃
- B. 0,
- C. Ha
- D. Cla

82. Phosphate pollution is mainly caused by:

- A. Sewage and phosphate rocks
- B. Phosphate rocks only
- C. Sewage and agricultural fertilizers
- D. Agricultural fertilizers only

83. Synecology is the study of:

- A. Biosphere
- B. Individuals
- C. Environment
- D. Community in relation to environment

84. Germination of the seed is promoted by:

- A. Green light
- B. Red light
- C. Blue light
- D. Infrared light

85. In short day plants, flowering is interrupted if:

- A. Dark period is interrupted by white or red light
- B. Dark period is interrupted by farred light
- C. Dark period is interrupted by red followed by far-red light
- D. In short day plants, flowering cannot be interrupted

86. Which one is the most threatened area on the earth for (wild life):

- A. Sub-tropical rain forest
- B. Tropical rain forest
- C. Antarctica forest
- D. Both A and B

87. Who gave a cellular concept for protozoans?

- A. Cuvier
- B. Von Seibold
- C. Dobell
- D. Hall

88. The Pellicle is present in:

- A. Amoeba Verrucosa
- B. Amoeba Proteus
- C. Amoeba Dubia
- D. Phyllum Sarcodina

89. Which of the following has a clitellum?

- A. Earthworm
- B. Neries
- C. Cockroach
- D. Flatworm

90. EXCEPT all below mentioned are the characteristics of members of the class Aves.

- A. Ectothermy
- B. Feathers
- C. Vertebral column modified for
- D. Bones lightened by numerous air spaces

91. Which type of feathers is used for flights?

- A. Down Feathers
- B. ContourFeather
- C. Quill Feathers
- D. Both B & C



92. The ATP is formed in:

- A. Ribosomes
- B. Golgi bodies
- C. Mitochondria
- D. None of the above

93. In the process of DNA replication, topoisomerases plays a prominent role in :

- A. Producing nicks in one strand of the unwinding double helix
- B. Cutting both strands and reseal them
- C. They relieve topological stress created during DNA strand separation
- D. They can relax both positive and negative supercoils of DNA
- E. All of the above

94. N-formyl methionyl-tRNA is closely identified with synthesis of all the following, EXCEPT:

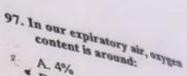
- A. E.coil ribosome
- B. Chloroplast ribosomes
- C. Mitochondrial ribosomes
- D. Eukaryotic cytoplasmic ribosome

95. A pyrimidine that is absent in RNA is:

- A. Uracil
- B. Thymine
- C. Cytosine
- D. Adenine

96. In frog the vein brings blood from the tongue is:

- A. Lingual
- B. Cutaneous
- C. Anterior abdominal
- D. Azygos



- A. 4%
 - B. 20%
 - C. 25%
 - D. 16%

98. Flexing or bending of our arm is

- A. Biceps
- B. Triceps
- C. Paralysis
- D. Paresis

99. 4th ventricle is present in:

- A. Optic lobes
- B. Diencephalon
- C. Medulla oblongata
- D. Brainstem structure

100. Egg-laying mammals belong to which of the following group:

- A. Placentals
- B. Marsupials
- C. Monotremes

11

D. Cetacea

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