

AFNS Repeated MCQs 2023

BY: PRO GENIUS STUDENTS

1. What is 1 torr equal to?

- a) 1 mmHg
- b) 1 atm
- c) 1 Pa
- d) 1 bar

Correct answer: a) 1 mmHg

2. What is the unit of mutual induction?

- a) Henry (H)
- b) Ohm (Ω)
- c) Farad (F)
- d) Ampere (A)

Correct answer: a) Henry (H)

Zeeman Effect:

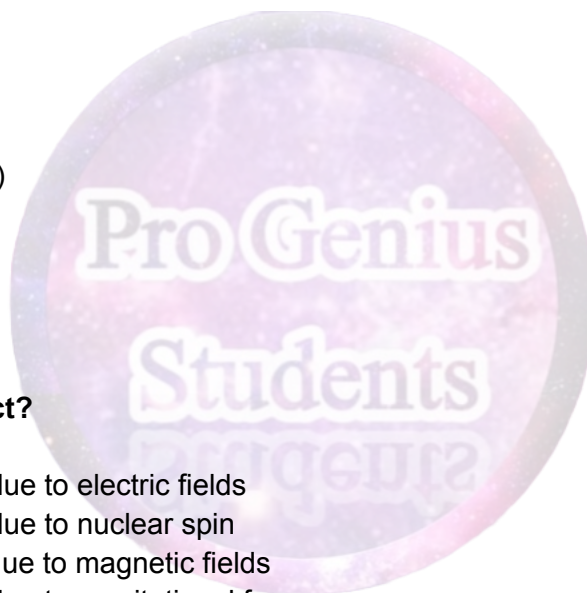
3. What is the Zeeman effect?

- a) Splitting of spectral lines due to electric fields
- b) Splitting of spectral lines due to nuclear spin
- c) Splitting of spectral lines due to magnetic fields
- d) Splitting of spectral lines due to gravitational forces

Correct answer: c) Splitting of spectral lines due to magnetic fields

Stark Effect:

4. What is the Stark effect?



- a) Splitting of spectral lines due to electric fields
- b) Splitting of spectral lines due to nuclear spin
- c) Splitting of spectral lines due to magnetic fields
- d) Splitting of spectral lines due to gravitational forces

Correct answer: a) Splitting of spectral lines due to electric fields

5. What is 1 farad equal to?

- a) 1 coulomb/volt
- b) 1 coulomb/ohm
- c) 1 coulomb/ampere
- d) 1 coulomb/second

Correct answer: a) 1 coulomb/volt

Angular Velocity:

6. What does angular velocity represent?

- a) Speed of an object along its path
- b) Rate of change of linear velocity
- c) Speed of an object in circular motion
- d) Rate of change of acceleration

Correct answers) Speed of an object in circular motion:

7. What is the linear velocity angle?

- a) The angle between the object's linear velocity vector and its acceleration vector
- b) The angle between the object's linear velocity vector and the tangent to its path
- c) The angle between the object's linear velocity vector and the centripetal force vector
- d) The angle between the object's linear velocity vector and the radial vector

Correct answer: b) The angle between the object's linear velocity vector and the tangent to its path

8. In which phase does the growth of bacteria take place?

- a) Lag phase
- b) Logarithmic (exponential) phase
- c) Stationary phase

d) Death phase

Correct answer: b) Logarithmic (exponential) phase

9. The color of xanthophyll is:

- a) Yellow
- b) Green
- c) Red
- d) Blue

Correct answer: a) Yellow

10. Ova are released from the:

- a) Ovaries
- b) Uterus
- c) Fallopian tubes
- d) Cervix

Correct answer: a) Ovaries

11. Cyanobacteria are:

- a) Bacteria that can photosynthesize
- b) Bacteria that are only found in cold environments
- c) Bacteria that are parasitic in nature
- d) Bacteria that exclusively live in aquatic environments

Correct answer: a) Bacteria that can photosynthesize

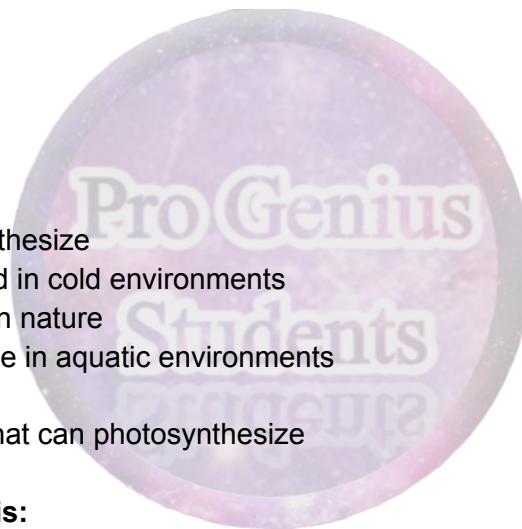
12. A synonym for "crude" is:

- a) Rough
- b) Polished
- c) Sophisticated
- d) Delicate

Correct answer: a) Rough

13. A synonym for "doubt" is:

- a) Uncertainty



- b) Confidence
- c) Clarity
- d) Conviction

Correct answer: a) Uncertainty

14. A synonym for "perceived" is:

- a) Noticed
- b) Concealed
- c) Forgotten
- d) Disregarded

Correct answer: a) Noticed

15. A synonym for "entirely" is:

- a) Wholly
- b) Partially
- c) Sparingly
- d) Temporarily

Correct answer: a) Wholly

16. A synonym for "wild" is:

- a) Untamed
- b) Domesticated
- c) Civilized
- d) Orderly

Correct answer: a) Untamed

17. Which compound represents a primary alcohol?

- a) Ethanol
- b) Propanal
- c) Butanoic acid
- d) Methanoic acid

Correct answer: a) Ethanol

18. Which of the following is a strong acid?

- a) Acetic acid (CH_3COOH)

- b) Hydrochloric acid (HCl)
- c) Citric acid (C₆H₈O₇)
- d) Nitric acid (HNO₃)

Correct answer: b) Hydrochloric acid (HCl)

19. The electronegativity of NaCl (sodium chloride) is:

- a) High
- b) Low
- c) Variable
- d) None of the above

Correct answer: a) high

here are some multiple-choice questions (MCQs) related to Zygomycetes:

1. What is the primary mode of reproduction in Zygomycetes?

- a) Binary fission
- b) Budding
- c) Conjugation
- d) Fragmentation

2. Zygomycetes are known for their characteristic:

- a) Multicellular gametangia
- b) Unicellular gametangia
- c) Zoospores
- d) Ascocarps

3. Which structure is formed as a result of sexual reproduction in Zygomycetes?

- a) Ascocarp
- b) Basidiocarp
- c) Zygosporangium
- d) Sporangium

4. The hyphal structure responsible for asexual spore formation in Zygomycetes is called:

- a) Conidiophore
- b) Ascus
- c) Basidium
- d) Sporangium

5. Zygomycetes are commonly found in habitats such as:

- a) Freshwater

- b) Marine environments
- c) Terrestrial soils
- d) Extreme cold regions

20. What is the primary purpose of a venturi meter?

- A) Measure the temperature of fluids in a pipe.
- B) Increase the pressure of fluids in a pipe.
- C) Measure the flow rate of fluids in a pipe.
- D) Separate different components of fluids in a pipe.

Correct Answer: C) Measure the flow rate of fluids in a pipe.

21. In what form are hormones NOT present?

- A) Solid particles
- B) Gaseous molecules
- C) Liquid solution
- D) Chemical messengers dissolved in blood

Correct Answer: A) Solid particles

22. What is the composition of the middle lamella?

- A) Proteins and lipids
- B) Cellulose and pectin
- C) Cholesterol and phospholipids
- D) Starch and sugars

Correct Answer: B) Cellulose and pectin

23. Which of the following is a characteristic that a bacterial cell is generally NOT resistant to?

- A) Antibiotics
- B) Environmental changes
- C) Nutrient deficiencies
- D) Viral infections

Correct Answer: D) Viral infection

24. Methylformate and acetic acid are which type of isomers.

- (a) Position isomers
- (b) Tautomeric
- (C) Functional
- (D) chain isomers

The correct answer is: (C) Functional

25. Which characteristic is commonly shared between plants and fungi?

- A) Chemosynthesis as the main mode of energy production
- B) Ability to perform photosynthesis
- C) Presence of chitin in their cell walls
- D) Reliance on animal pollination for reproduction

Correct Answer: C) Presence of chitin in their cell walls

26. Which of the following is the best option for disinfecting your slab?

- A) Phenols
- B) Sulphur
- C) Bleach (Sodium hypochlorite)
- D) Vinegar (Acetic acid)

Correct Answer: C) Bleach (Sodium hypochlorite)

27. If we double the velocity and radius of an object, what will happen to the centripetal force?

- A) It will quadruple.
- B) It will double.
- C) It will become half.
- D) It will remain the same.

Correct Answer: B) It will double.

28. Which of the following best describes the nature of ammonium chloride?

- A) Strong acid
- B) Weak acid
- C) Strong base
- D) Neutral substance

Correct Answer: B) Weak acid

29. What is the chemical formula of wood spirit?

- A) C₂H₆O

- B) CH₄O₂
- C) CH₃OH
- D) C₃H₈O₃

Correct Answer: C) CH₃OH

30. He is blind ____ one eye.

- A) for
- B) with
- C) in
- D) at

Correct C) in

31. Which organic compound does not undergo the Cannizzaro reaction?

- A) Aldehydes
- B) Ketones
- C) Aromatic compounds
- D) α -Hydroxy aldehydes

Correct Answer: A) Aldehydes

32. Which of the following is a mixture of low-boiling hydrocarbons?

- A) Ethanol
- B) Propanoic acid
- C) Gasoline
- D) Glycerol

Correct Answer: C) Gasoline

33. My brother is devoted ---religion.

- A) To
- B) With
- C) At
- D) In

Correct Answer: A) To

34. What is the maximum angle of projection for a projectile to achieve maximum range?

Correct answer: 45 degrees

35. Pepsin is a(n):

- Enzyme
- Protein
- Carbohydrate

- Lipid

Correct answer: enzyme

36. Which scientist performed an experiment in 1934 on auxins, a plant hormone?

- A. Charles Darwin
- B. Frits Went
- C. Adolf Butenandt
- D. Karl von Frisch

Correct answer: B. Frits Went

37. What is the main event that happens during pachytene of Meiosis I?

- A. Crossing over
- B. Synapsis
- C. Condensation of chromosomes
- D. Dissolution of the nuclear membrane

Correct answer: A. Crossing over

38. What is the term for energy per unit volume?

- A. Energy density
- B. Power density
- C. Momentum density
- D. Force density

Correct answer: A. Energy density

39. Which of the following elements has the highest electronegativity?

- A. Fluorine (F)
- B. Chlorine (Cl)
- C. Oxygen (O)
- D. Nitrogen (N)

Correct answer: A. Fluorine (F)

40. Which of the following waves could be polarized?

- A. Sound waves
- B. Light waves
- C. Radio waves
- D. Heat waves

Correct answer: b,c,d are correct

41. Which carbohydrate is the least sweet?

Glucose
Fructose
Sucrose
Starch

The correct answer is (4)

42. Which of the following is a synonym of the word "embellished"?

Adorned
Decorated
Enhanced
Enriched
All of the above

The correct answer is (5), all of the above

43. heme group contain

Answer: iron atom

44. The removal of the thyroid gland is called a

Answer: Thyroidectomy

45. which element belong to first period?

Answer: Hydrogen and Helium.

46. oxidation state of sodium

Answer: oxidation state of sodium is +1.

47. which fungi get their food from dead organic matter

Answer: Saprophytic fungi

48. find ph of 0.001m of hcl

Answer: pH of 0.001 M HCl is 3.

In the case of 0.001 M HCl, the concentration of hydrogen ions is 0.001 M. So, the pH of the solution is:

$$\text{pH} = -\log(0.001)$$

$$\text{pH} = 3$$

49. which is least acidic

Answer: phenol

50. Fungi that cannot live without a host are called

Answer: obligate parasites

51. fascinating synonym

- captivating
- compelling

52. The cell wall of cyanobacteria is formed

Answer: Peptidoglycan layer

Outer membrane

53. The combined effect of inductance

Answer: Impedance

54. Which vitamin is given to the new born baby to prevent excessive bleeding?

Answer: vitamin K

55. adverse synonym

- Unfavorable
- Unlucky

56. The reaction of an acid and metal carbonate will lead to formation?

acid + metal carbonate → salt + water + carbon dioxide

For example:



57. The act of transfer of pollen grains from the male anther of a flower to the female stigma

Pollination

58. The molecule with the shorter bond angle is BH₃.

59. The organelle that acts as a protein factory is the Ribosomes

60. The organelle that is not present in plant cells
Centrioles

61. if frequency increases then conductance?

Answer: the conductance increases with frequency

62. The element that has a giant covalent structure is:

Answer: silicon (Si)

Here are some examples of materials that have giant covalent structures:

- Diamond
- Graphite
- Silicon dioxide (silica)
- Boron nitride
- Carbon nanotubes

63. which carbohydrate is least soluble(1. Glucose ,2.sucrose ,glycogen)

Answer: Glycogen

64. when momentum is equal to K. E. what is the velocity?the velocity of the object is

Answer: 2 m/s.

$$\text{momentum} = p = mv$$

$$\text{KE} = \frac{1}{2}mv^2$$

If momentum is equal to kinetic energy, then we have:

$$p = \text{KE}$$

$$mv = \frac{1}{2}mv^2$$

$$v = 2 \text{ m/s}$$

65. :when electric field enters into magnetic field the velocity.

Answer: Unaffected

66. A vaccine for rabies was discovered by ?

Answer: Louis Pasteur and his colleagues in 1885

67. Which scientists gave the germ theory?

Answer: Robert Koch (1843-1910)

68. A CRO can be used to measure :

Answer: current and voltage

69. unit of surface tension is same as

Answer: N/m.

70. 3-dihydroxybenzene is also known as

Answer: Resorcinol

It is a white, crystalline solid that is soluble in water and alcohol. It is a weak acid and has a characteristic sweet taste.

71. which type of bond and how many bond are present in CaC_2 ?

Answer: bond present in CaC_2 is ionic. There are 2 bonds present in CaC_2 .

in CaC_2 , but 1 sigma and 2 pi bonds are present between the two carbon atoms.

72. which of the following element have unpaired electrons in s subshell

- A) Cr
- B) Co
- C) Fe
- D) Mn

Mn

73.

If the Earth's radius were to shrink to half of its current value, the day would only last

Answer: 6 hours.

74. The H-X-H bond angle is smallest for

Answer: H_2Te .

75. The cell wall of bacteria is made up of

Answer: peptidoglycan, also called murein

81. Under what category can a floor cleaning agent that serves to make floors bacteria-free be placed?

Answer: Disinfectant

The most common disinfectants used for floor cleaning are:

- Bleach
- Quaternary ammonium compounds (quats)
- Alcohol
- Hydrogen peroxide
- Vinegar
- Tea tree oil

82. If Earth stops rotating, maximum weight appears at

Answer: Equator.

83. A person of mass 60 kg carries a bag of 15 kg to a building 10 m high in 5 minutes. What is the power?

Answer: The power is 24 watts

84. A ball of mass m moving with velocity V on a frictionless surface collides with another ball of the same mass. What is the velocity of the second ball after the collision?

Answer: $v_2 = -v_1$

Here is the formula for calculating the velocity of the second ball after the collision:

$$v_2 = -v_1$$

where:

- v_2 is the velocity of the second ball after the collision
- v_1 is the velocity of the first ball before the collision

In this case, $v_1 = V$, so $v_2 = -V$.

85. antonym of Immaculate

- dirty
- filthy
- unclean
- blemished
- flawed
- imperfect

86. common name of 2-hydroxypropanoic acid is

Answer: lactic acid

87. if A is $(2i + 3j)$ and B is $(3i + 4j)$ then A+ B is

Answer: $A+B = (5i + 7j)$.

To find A+B, we simply add the corresponding components of A and B:

$$A + B = (2i + 3j) + (3i + 4j) = (2 + 3)i + (3 + 4)j = 5i + 7j$$

88. Magnetic field in a conductor directly proportional to

Answer: Current

The formula for the magnetic field at a point due to a current carrying conductor is:

$$B = \mu_0 I / 2\pi r$$

89. the dimensions of the time constant RL during the growth and decay of current in all inductive circuits are the same as those of

Time.

90. A molecule having both a carboxylic functional group and an alcoholic functional group

Answer: ester

91. if a car travels for 2 hours and cover 120 miles we can work speed as? the speed of the car is

Answer: 60 miles per hour.

$$\text{Speed} = \text{Distance} / \text{Time} = 120 \text{ miles} / 2 \text{ hours} = 60 \text{ miles per hour}$$

92. which bacteria can switch from areobic respiration in the availabilty of oxygen?

Answer: facultative anaerobes.

93. The minimum angle of projection for a projectile is

Answer: 90 degrees.

94. pachytene is a

Answer: Pachytene is the third stage of prophase in meiosis

95. The acceleration of a free-falling object is

Answer: Constant

96. If the error in the measurement of mass is 2% and the error in the measurement of velocity is 3%, then the error in the measurement of kinetic energy is

Answer: 8%.

The percentage error in the measurement of kinetic energy is:

$$= (2 + 2 \times 3)\%$$

$$= 8\%$$

97. pramatic opposite is

- Impractical
- Unrealistic
-

98. DNA is present in

Answer: nucleus of eukaryotic cells

99. The hyphal structure responsible for asexual spore formation in Zygomycetes is called a

Sporangiophore.

100. The property of carbon chain formation is called

Catenation

101. The ratio of lengths of two wires made up of same material is 2 : 3 and the ratio of areas of cross section 3 : 2 . The ratio of their resistances is

4 : 9.

102: which type of fungi perform Fertilization involves plasmogamy followed by karyogamy?

Ascomycetes

103: Consider a cup that is half-filled and rotating. What will happen if it is filled to the brim?

slow down

104: if a convex lens and a concave lens have the same focal length of f , the focal length of the combination will be

Zero.

105: In which phase of growth do bacteria consume a high amount of nutrients?

Answer: logarithmic phase

106: The IUPAC name of Teflon is

Answer: polytetrafluoroethylene (PTFE)

107. R-Mg-X reacts with CO₂ to form

Answer: carboxylic acid

108: :Electronic configuration of Cr⁺³ (Ar)...?

Answer: [Ar] 3d³.

109: AC generators work on the principle of

Answer: Faraday's law of electromagnetic induction

110: which fungi is an eatable

Answer: Amanita fungi

111: what is fungi function in lichin association

Answer: provide habitat to the partner

112: What are the similarity between cyanobacteria and animals?

Answer: Both can be motile

113: Number of free electrons in nickel Ni²⁺

Answer: 2.

114: In which motion gravity works zero on body

Answer: Horizontally

115: which is not the function of glycolipid

A: Provide structure to cell wall

B: give energy to body

C: act as Channel proteins for transport across membrane ✓

116: When the kinetochore fibers contract and microtubules elongate, the cell is present in which stage of mitosis?

Answer: Anaphase

117: the name of spiral shape bacteria is :

Answer: Spirochaeta

118: The device used in the hot ends of 3D printers to monitor the heat produced and allow the printer to keep a constant temperature for melting the plastic is called a

Answer: Thermistor.

119: The product of the nucleophilic substitution reaction between 2-iodobutane and sodium ethoxide (CH₃CH₂ONa) is

Answer: 2-ethoxybutane (CH₃CH₂OCH₂CH₂CH₃)

120: if a voltmeter measure 250V and frequency is 50Hz, what will be the peak value?

Therefore, the peak value of the voltage is 353.55 V.

121: "The teacher helped the students to check their homework."

122: Main source of organic compound is:

Answer: Coal

123: If force is 700N and x is 7cm and y is 1cm then work done will be ?

Answer: the total work done is 49 Joules.

124 : *At centre of earth acceleration of gravity is

Zero

125: which one is not a nucleotide?

Answer: NAD

126: which one is monokaryotic?

Answer: Basidiopore

127: which one process does not occur in pachytene of meiosis1?

Answer: The disappearance of the nucleolus

128: which is microaerophilic bacteria?

Answer: Campylobacter

129: Octopus belongs to the class_____.

Answer: Cephalopoda

130: What is the common name of a devilfish?

Answer: Octopus

131: Which of the following statements is true about Unio?

Answer: Unio has a three-chambered heart.

132: The chemical formula of camphor is

Answer: C₁₀H₁₆O

133: if a voltmeter measure 250V and frequency is 50Hz,what will be the peak value?

Answer: 353.55 V

134: The other name for 1, 2, 3-trihydroxybenzene is

Answer: Pyrogallol

135: the total number of bonds in CaC₂ is

Answer: One sigma bond and two pi bonds.

136: When bacteria are put in a hypotonic solution, which structure prevents them from osmotic lysis?

Answer: cell wall

137: In which type of fungi asexual reproduction is absent :

Answer: Deuteromycetes.

138: The gravitational field of the Earth is maximum at the

Answer: Poles

139: which protien more abundant in nature?

Answer: Rubisco, also known as ribulose biphosphate

140: Direct:

The audience said, "What a dull day!"

Indirect:

The audience complained that it was a dull day.

141:What is the effect of radioactivity on women developing a zygote?

Answer: Increased risk of genetic mutations

142 : What is the size range of Gram-positive bacteria?

Answer: Microscopic, typically 0.5 to 5 micrometers.

143: Where is gravitational intensity the highest?

Answer: Earth's poles.

144: Which of the following statements is INCORRECT for 'conidia'?

Answer:Conidia are produced endogenously and ascospores exogenously.

145: Which of the following is mismatched?

Answer: Centriole - Cilia formation.

146: Asexual reproduction is uncommon in

Answer: Ascomycetes

147: An amino acid consists of:

Answer: Amino group (NH₂) and carboxyl group (COOH).

148: which one is not a mono nucleotide

Answer: NAD

149: If the AC voltage is 250V with a frequency of 50Hz, what is the peak voltage value?

Answer: 353.55 V.

150: Which characteristic is shared between Penicillium and Aspergillus?

Answer: Both are filamentous fungi.

151: When SiCl₄ reacts with H₂O, what type of reaction occurs?

Answer: Acidic reaction, no precipitate.

152: What happens when a Grignard reagent reacts with CO₂?

Answer: Formation of a carboxylic acid.

153: What is the term for benzene with an NH₂ (amino) group attached?

Answer: Aniline

154: Bacteria that are similar in shape to clusters of grapes are known as:

Answer: Staphylococcus

155: Fungi are commonly found in pickles because they have a tendency to thrive in:

Answer: Moist environments.

156: Which one is different from the others?

- A) Yeast
 - B) Penicillin
 - C) Aspergillus
 - D) Amanita
- Answer: D) Amanita

157: What is the reciprocal of bulk modulus?

Answer: Compressibility

158: What does the ratio of stress to strain represent?

Answer: Young's modulus

159: What part of speech is "curiosity"?

Answer: Noun

160: In which region do the limiting lines of a series lie?

Answer: UV region

161: The term used to describe the average distance between two consecutive collisions is known as the

Answer: "mean free path."

162: What is the common immunosuppressive drug obtained from fungi that is typically administered to patients who have undergone a kidney transplant?

Answer: "Cyclosporine."

163: Fats and oils are composed of molecules known as

Answer: Triglycerides.

164: which sugar in pentose and present in RNA ?

Ribose

165: the peak of highest intensity in a mass spectrum is called the

Answer: base peak

166: If impedance is at its maximum value, the corresponding current will be

Answer: Zero

167: the radioactive isotope of hydrogen is called

Answer: Tritium

168: Ethanoic acid is present in

Answer: Vinegar.

169: The ratio of electromagnetic force between two electrons is

Answer: 4×10^{20} .

170: , if the momentum of an object is doubled, its kinetic energy will increase by

Answer: 4 times

171: In which type of circuit does the current lead the voltage

Answer: RC circuit

172: The largest bone in the human body is the

Answer: femur bone

173: how many faces of plane prism

5

174: Synonym of DANDY

- Aristocratic
- Dapper
- Fashionable
- Foppish
- Natty
- Sharp

175: Synonym of Prejure

- Lie

- Deceive
- Falsify

176:: The middle lamella of plants is made up of

Answer: calcium and magnesium pectates

177: Correct spelling of Mancellanieous..?

Answer: Miscellaneous متفرق

178: The structure of benzene is

Answer: regular planar

179: The radius of the third orbit of hydrogen is

Answer: 4.761 angstroms.

180: Are fungi predominantly diploid or haploid?

Answer: haploid.

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