



UAF OFFICIAL HELP PORTAL

Admin: Abdullah Chaudhary

Be a part of our Whats app Group and stay Updated about all important information related to UAF including Scholarships, Internships, Jobs & all other events of UAF. Making possible every important Update to you with in seconds.

Our Mission is to guide knowledge seeking minds free of cost.

If you want to receive every important update then leave a text to +923038422026 and be our part.

Stream 2: Eng, Phys, Chem, Math

MORNING SESSION

Q 58. Which is not a reversible process?
(A) Condensation (B) Evaporation

(C) Slow compression (D) Liquefaction

CHEMISTRY

Q 59. The gram number of molecules are present in 10.4 g of C_2H_5OH (C) 2.8g of CO (D) 5.4g of N_2O_2

Q 60. During combustion analysis $Mg(ClO_4)_2$ is employed to absorb (A) CO_2 (B) H_2O vapours (C) CH_4 (D) CO

Q 61. If absolute temperature of a gas is doubled and pressure is reduced to one half, the volume of gas will (A) Remain unchanged (B) Increase four times (C) Reduce to $\frac{1}{4}$ (D) Be doubled

Q 62. Which is a pseudo solid? (A) CaF_2 (B) Glass (C) $NaCl$ (D) Naphthalene

Q 63. When 4d orbital is complete, the entering electron goes into (A) 4f (B) 5s (C) 5p (D) 7d

Q 64. What molecule has sp^2 hybridization? (A) CO_2 (B) CH_4 (C) C_2H_2 (D) C_2H_4

Q 65. The nature of milk is (A) Acidic (B) Basic (C) Neutral (D) Normal

Q 66. Hardness of pure water is (A) 1 (B) 18 (C) 55.5 (D) 6

Q 67. The partial pressure of oxygen in lungs is (A) 760 torr (B) 320 torr (C) 159 torr (D) 116 torr

Q 68. Ascorbic acid is vitamin (A) A (B) B (C) C (D) E

Q 69. Quantum number values for 2P orbitals are (A) $n=2, l=1$ (B) $n=1, l=2$ (C) $n=1, l=0$ (D) $n=2, l=0$

Q 70. Lyman series occur in (A) Visible region (B) U.V region (C) I.R region (D) None of these

Q 71. Which molecule has the highest percentage of ionic character? (A) BCl_3 (B) HBr (C) HI (D) HF

Q 72. Carbon atom in CH_4 is hybridized (A) sp^3 (B) sp^2 (C) sp (D) dsp^2

Q 73. 18g of glucose is dissolved in 50g of water. The relative lowering of vapour pressure is equal to (A) $\frac{1}{51}$ (B) $\frac{1}{5}$ (C) $\frac{1}{51}$ (D) 6

Q 74. Oxidation number of C in $Ca(C_2O_4)_2$ is (A) -1 (B) +3 (C) +3 (D) +1

Q 75. In zero order reaction, the rate is independent of (A) Temperature of reaction (B) Concentration of reactants (C) Concentration of products (D) None of these

MORNING SESSION

Stream 2: **Eng, Phys, Chem, Math**



Time: 90 minutes

University of Agriculture, Faisalabad

Entry test for Admission to the First Degree Programs

July 22, 2018 at 10:00 a.m.

Maximum Marks: 100

IMPORTANT INSTRUCTIONS FOR THE CANDIDATES

The candidates are given the question paper sheets of their chosen subjects stream along with an answer sheet (bubble sheet) carrying 100 bubbles (squares) for each subject. They are required to **DARK SHADE** the correct choice **CAREFULLY** within the boundary of a **BUBBLE**. Calculator can be used but **MUST NOT** be shared with others. A candidate can leave the test hall after half time.

Please DO NOT DETACH the Bubble Sheet from the Question Paper

ENGLISH

Choose the correct answers to the words in underlined CAPITAL letters

- Q. 1. Through love THORNS become roses
(A) Spines (B) ☒ Stones (C) Flowers (D) Twigs
- Q. 2. The influence of the moon caused LUNACY
(A) Love (B) Hatred (C) ☒ Madness (D) Simplicity
- Q. 3. I entered INHOSPITABLE regions of examinations
(A) Unkind (B) ☒ Unsuitable (C) Unable (D) Barren
- Q. 4. My voice was SEPULCHRAL
(A) ☒ Loud (B) Low (C) Gloomy (D) Ugly
- Q. 5. I looked for permanent ECLECTICITY
(A) Facility (B) ☒ Simplicity (C) Intense happiness (D) Radiance
- Q. 6. There is a little LIKELIHOOD of their getting disease
(A) Liking (B) Effort (C) Ray (D) ☒ Probability
- Q. 7. He had just come from the SANATORIUM
(A) Playground (B) ☒ Hotel (C) Hospital (D) Library
- Q. 8. Chips wrote his article for the Brookfield TERMINAL magazine
(A) Cared (B) Holy (C) ☒ First (D) After a term
- Q. 9. He always desired to DEPRECIATE himself
(A) Praise (B) Admire (C) ☒ Devalue (D) Ultimate
- Q. 10. The autumn GALES rattling the window
(A) Ghosts (B) Ruins (C) ☒ Winds (D) Furies
- Q. 11. The local Turks VOWED that death was preferable
(A) Prayed (B) Shouted (C) Pledged (D) ☒ Chanted
- Q. 12. Norma REPPRESSED a smile.
(A) Urged (B) Checked (C) ☒ Uttered (D) Made
- Pick the correct option from the given choices to fill in the blanks
- Q. 13. I _____ you for a long time.
(A) Do not see (B) Did not see (C) Have not seen (D) ☒ Have not been seeing

MORNING SESSION

Stream 2: Eng, Phys, Chem, Math

- Q. 32. Two light waves which are not coherent cannot produce
☒ (A) Interference (B) Diffraction ☒ (C) Polarization in same plane (D) Return back
- Q. 33. In stationary wave, the particle velocity at the nodes is:
☒ (A) Zero (B) 3 (C) 2 (D) 1
- Q. 34. Which pair has same dimensions?
 (A) Work and power (B) Momentum and impulse (C) Force and torque ☒ (D) Torque and power
- Q. 35. The mass of an object is a quantitative measure of its:
 (A) Momentum (B) Acceleration (C) Inertia ☒ (D) Energy
- Q. 36. The slope of velocity time graph shows the:
☒ (A) Total distance covered by the body (B) Average acceleration of the body
 (C) Average force acting on the body (D) Total work done on the body
- Q. 37. The area of the parallelogram formed by A and B as two adjacent sides is equal to:
 (A) AB (B) AB cos θ ☒ (C) AB sin θ (D) AB tan θ
- Q. 38. All the food we eat in one day has about the same energy as:
 (A) One liter of petrol (B) $\frac{1}{2}$ liter of petrol (C) $\frac{1}{3}$ liter of petrol ☒ (D) $\frac{1}{4}$ liter of petrol
- Q. 39. All points on a rigid body rotating about a fixed axis do not have same:
 (A) Speed (B) Angular speed (C) Angular acceleration ☒ (D) Angular displacement
- Q. 40. Moment of inertia of a solid sphere is:
 (A) mr^2 ☒ (B) $\frac{1}{2}mr^2$ (C) $\frac{2}{5}mr^2$ (D) $\frac{1}{12}mr^2$
- Q. 41. Which has maximum viscosity?
 (A) Air (B) Water (C) Acetone ☒ (D) Glycerin
- Q. 42. A quantity which indicates the state and direction of a vibrating body is known as:
 (A) Time period (B) Amplitude ☒ (C) Phase (D) Frequency
- Q. 43. The speed of sound is greater in solids due to their high:
☒ (A) Density (B) Pressure (C) Temperature (D) Elasticity
- Q. 44. The fringe spacing increases if we use:
☒ (A) Red light (B) Blue light (C) Yellow light (D) Green light
- Q. 45. Which remains constant in an adiabatic process?
 (A) Volume (B) Pressure ☒ (C) Entropy (D) Temperature
- Q. 46. Which is not the essential component of a spectrometer?
☒ (A) Collimator (B) Telescope (C) Turntable (D) Microscope
- Q. 47. In sonar we use:
 (A) Sound waves ☒ (B) Ultrasound waves (C) Radio waves (D) Microwaves
- Q. 48. Which is unimportant in describing the satellite's orbit?
 (A) Distance of satellite from earth's center (B) Gravitational constant G ☒ (C) Mass of satellite (D) Mass of earth
- Q. 49. When two identical waves move in the opposite direction, they give rise to:
 (A) Stationary waves ☒ (B) Beats
 (C) Constructive interference (D) Destructive interference

MORNING SESSION

Q. 65. Which of the following is an irreversible process?
(a) Freezing (b) Evaporation (c) Sublimation (d) Condensation

(C) Slow compression (D) Liquefaction

CHEMISTRY

Q. 66. The gaseous molecules are present in 100 g of water. (A) 100 g of $\text{C}_2\text{H}_6\text{O}$ (B) 100 g of $\text{C}_2\text{H}_4\text{O}$ (C) 2.8 g of CO (D) 5.4 g of N_2O_2

Q. 67. During combustion of CH_4 , CO_2 is employed to absorb (A) H_2O (B) H_2 (C) CH_4 (D) CO

Q. 68. Pressure of a gas is doubled and pressure is reduced to one half, the volume of gas will (A) Remain unchanged (B) Increase four times (C) Reduce to $\frac{1}{4}$ (D) Be doubled

Q. 69. Which is a solid? (A) H_2O (B) NaCl (C) NaCl (D) Naphthalene

Q. 70. Which orbital is empty, the starting electron goes into (A) 7s (B) 7p (C) 7d (D) 7f

Q. 71. Which molecule has sp^2 hybridization? (A) CH_4 (B) CH_2 (C) C_2H_2 (D) C_2H_4

Q. 72. The nature of milk is (A) Acidic (B) Basic (C) Neutral (D) Normal

Q. 73. Molarity of pure water is (A) 1 (B) 18 (C) 55.5 (D) 6

Q. 74. The partial pressure of oxygen in lungs is (A) 100 torr (B) 120 torr (C) 150 torr (D) 16 torr

Q. 75. Acetic acid is a (A) Acid (B) Base (C) Salt (D) None of these

Q. 76. Quantum number values for 2p orbitals are (A) $n=2, l=1$ (B) $n=1, l=2$ (C) $n=1, l=0$ (D) $n=2, l=0$

Q. 77. Electromagnetic wave in (A) Visible region (B) UV region (C) IR region (D) None of these

Q. 78. Which molecule has the highest percentage of ionic character? (A) HCl (B) HBr (C) HI (D) HF

Q. 79. Empty orbit in CH_4 is hybridized (A) sp^3 (B) sp^2 (C) sp (D) dsp^2

Q. 80. H_2O is dissolved in 100 g of water. The relative lowering of vapour pressure is equal to (A) $\frac{1}{55}$ (B) $\frac{1}{18}$ (C) $\frac{1}{37}$ (D) $\frac{1}{55}$

Q. 81. Oxidation number of C in CaC_2O_4 is (A) +1 (B) +2 (C) +3 (D) +4

Q. 82. In zero order reaction, the rate is independent of (A) Temperature of reaction (B) Concentration of reactants (C) Concentration of products (D) None of these

MORNING SESSION

Q. 68. Calorie is equivalent to (A) 0.4184 J (B) 4.184 J (C) 41.84 J (D) 418.4 J

Q. 69. The pressure of a gas is (A) 100 atm (B) 100 mm Hg (C) 100 mm Hg (D) 100 mm Hg

Q. 70. Which of the following is a solid? (A) H_2O (B) NaCl (C) NaCl (D) Naphthalene

Q. 71. The orbital which is empty, the starting electron goes into (A) 7s (B) 7p (C) 7d (D) 7f

Q. 72. Which molecule has sp^2 hybridization? (A) CH_4 (B) CH_2 (C) C_2H_2 (D) C_2H_4

Q. 73. The nature of milk is (A) Acidic (B) Basic (C) Neutral (D) Normal

Q. 74. Molarity of pure water is (A) 1 (B) 18 (C) 55.5 (D) 6

Q. 75. The partial pressure of oxygen in lungs is (A) 100 torr (B) 120 torr (C) 150 torr (D) 16 torr

Q. 76. Acetic acid is a (A) Acid (B) Base (C) Salt (D) None of these

Q. 77. Quantum number values for 2p orbitals are (A) $n=2, l=1$ (B) $n=1, l=2$ (C) $n=1, l=0$ (D) $n=2, l=0$

Q. 78. Electromagnetic wave in (A) Visible region (B) UV region (C) IR region (D) None of these

Q. 79. Which molecule has the highest percentage of ionic character? (A) HCl (B) HBr (C) HI (D) HF

Q. 80. Empty orbit in CH_4 is hybridized (A) sp^3 (B) sp^2 (C) sp (D) dsp^2

Q. 81. H_2O is dissolved in 100 g of water. The relative lowering of vapour pressure is equal to (A) $\frac{1}{55}$ (B) $\frac{1}{18}$ (C) $\frac{1}{37}$ (D) $\frac{1}{55}$

Q. 82. Oxidation number of C in CaC_2O_4 is (A) +1 (B) +2 (C) +3 (D) +4

Q. 83. In zero order reaction, the rate is independent of (A) Temperature of reaction (B) Concentration of reactants (C) Concentration of products (D) None of these

Stream 2: Eng. Phys. Chem. Math

MORNING SESSION

- Q 68. Chlorine is a gas at room temperature. (A) 0.4384 (B) 41.84 (C) 4.184 (D) 418.4
- Q 69. The pressure of oxygen inside the bomb calorimeter is (A) 100 atm (B) 50 atm (C) 25 atm (D) 20 atm
- Q 70. Which aqueous solution has highest pH? (A) 0.1M NaOH (B) 0.1M H_2SO_4 (C) 0.1M HCl (D) 0.2M HNO_3
- Q 71. The order of decomposition of nitrogen pentoxide $2N_2O_5 \rightarrow 2N_2O_4 + O_2$ is (A) First order (B) Second order (C) Third order (D) Zero order
- Q 72. The element which has maximum number of unpaired electron is (A) Cr_{24} (B) Cr_{25} (C) Cr_{23} (D) Cr_{22}
- Q 73. Which is not a molecular ion? (A) Fe^{3+} (B) Cl_2^{+} (C) NH_4^+ (D) CO^+
- Q 74. The sum of mole fraction of gases in a mixture of gases is (A) Always more than 1 (B) Always less than 1 (C) May be less or more than 1 (D) Always 1
- Q 75. The highest value of lattice energy which one of these ionic compound, has (A) NaI (B) NaF (C) NaBr (D) NaCl

MATHEMATICS

- Q 76. Tabular form of $\{x | x \in P \wedge x < 12\}$: (A) $\{1, 2, 3, 5, 7, 11\}$ (B) $\{2, 3, 5, 7, 9, 11\}$ (C) $\{2, 3, 7, 11\}$ (D) $\{2, 3, 5, 7, 11\}$
- Q 77. An equation $(8x^4 - 1) - 8(x^2 - x) + 9x^2 = 0$ is of the form (A) Exponential (B) Radical (C) Rational (D) Reciprocal
- Q 78. If ω is the imaginary cube roots of unity then $\omega^3 =$ (A) ω (B) ω^2 (C) $1/\omega^2$ (D) ω^3
- Q 79. If a, b are in $A.P.$, then $2A =$ (A) $(a + b)/2$ (B) $a + b$ (C) $2(a + b)$ (D) $a - b$
- Q 80. When $P(A \cap B) = P(A) \cdot P(B)$, then A and B are _____ events. (A) Mutually exclusive (B) Equally likely (C) Independent (D) Dependent
- Q 81. ${}^nP_r =$ (A) 0 (B) 1 (C) n (D) $n!$
- Q 82. Sum of coefficient in the expansion of $(1 + x)^3$ is (A) 8 (B) 16 (C) 32 (D) 64
- Q 83. $\cos^2 30^\circ + \sin^2 60^\circ =$ (A) 1 (B) 2 (C) 3 (D) 4
- Q 84. Differentiate $\sin(x - x^2)$ w.r.t. x (A) 1 (B) x (C) $2x$ (D) $3x$

MORNING SESSION

Stream 2: Eng. Phys. Chem. Math

- Q. 14. He _____ me yesterday.
(A) Met (B) Met (C) Met (D) Has met
- Q. 15. He _____ me again.
(A) Shall be (B) To be (C) Shall (D) Will
- Q. 16. He _____ to the college.
(A) Shall (B) Shall (C) Speaks (D) Spoken
- Q. 17. Would that I _____ a minister!
(A) Am (B) Was (C) Are (D) Were
- Q. 18. I _____ my parents.
(A) To (B) To (C) To (D) At
- Q. 19. My friend is _____ to me.
(A) At (B) At (C) For (D) About
- Q. 20. He is _____ to me.
(A) At (B) At (C) At (D) Off
- Q. 21. He is _____ to me.
(A) At (B) At (C) At (D) After
- Q. 22. He is _____ to me.
(A) At (B) At (C) At (D) Take
- Q. 23. He is _____ to me.
(A) At (B) At (C) At (D) Lived
- Q. 24. He is _____ to me.
(A) At (B) At (C) At (D) Have gone
- Q. 25. He is _____ to me.
(A) At (B) At (C) At (D) Can be

PHYSICS

- Q. 26. The pressure exerted by a gas is _____.
(A) Force (B) Pressure (C) Minimum work (D) Both B and C
- Q. 27. Which of the following is not a unit of work?
(A) Joule (B) Newton (C) Minimum work (D) Both B and C
- Q. 28. The work done by a gas is _____.
(A) Force (B) Pressure (C) Minimum work (D) Both B and C
- Q. 29. A gas expands at constant pressure. The magnitude of work done is _____.
(A) Simple product (B) Minimum work (C) Both A and C (D) 5
- Q. 30. When the amplitude of a wave is doubled, the energy becomes _____.
(A) Double (B) Minimum work (C) Both A and C (D) 5
- Q. 31. Which of the following will travel faster than others, through the optical fibers?
(A) Ultra-violet light (B) Infrared light (C) Visible light (D) White light

Stream 2: Eng, Phys, Chem, Math

MORNING SESSION

- Q 60. Which is an example of reversible process?
(A) Condensation
(B) Evaporation

(C) Slow compression (D) Liquefaction

CHEMISTRY

- Q 61. The gram molecule of molecules are present in 1 kg of water
(A) 55.5 (B) 55.5 of C_2H_5OH (C) 2.8g of CO (D) 5.4g of N_2O_5
- Q 62. During oxidation analysis $Mg(CO)_3$ is employed to absorb
(A) CO_2 (B) H_2O vapours (C) CH_4 (D) CO
- Q 63. If absolute temperature of a gas is doubled and pressure is reduced to one half, the volume of gas will
(A) Remain unchanged (B) Increase four times (C) Reduce to $\frac{1}{4}$ (D) Be doubled
- Q 64. Which is a pseudo solid?
(A) CaF_2 (B) Glass (C) NaCl (D) Naphthalene
- Q 65. When d orbital is complete, the entering electron goes into
(A) $5f$ (B) $7s$ (C) $7p$ (D) $7d$
- Q 66. Which molecule has sp^2 hybridization?
(A) CH_4 (B) C_2H_4 (C) C_2H_2 (D) C_2H_6
- Q 67. The nature of milk is
(A) Acidic (B) Basic (C) Neutral (D) Normal
- Q 68. Molarity of pure water is
(A) 1 (B) 18 (C) 55.5 (D) 6
- Q 69. The partial pressure of oxygen in lungs is
(A) 760 torr (B) 320 torr (C) 159 torr (D) 110 torr
- Q 70. Acetic acid is vitamin
(A) A (B) B (C) C (D) E
- Q 71. Quantum number values for 2p orbitals are
(A) $n=2, l=1$ (B) $n=1, l=2$ (C) $n=1, l=0$ (D) $n=2, l=0$
- Q 72. Lyman series occur in
(A) Visible region (B) U.V region (C) I.R region (D) None of these
- Q 73. Which molecule has the highest percentage of ionic character?
(A) HCl (B) HBr (C) HI (D) HF
- Q 74. Carbon atom in CH_4 is hybridized
(A) sp^3 (B) sp^2 (C) sp (D) dsp^2
- Q 75. 1g glucose is dissolved in 90g of water. The relative lowering of vapour pressure is equal to
(A) $\frac{1}{51}$ (B) $\frac{1}{5}$ (C) $\frac{1}{51}$ (D) 6
- Q 76. Oxidation number of C in CaC_2O_4 is
(A) -1 (B) +3 (C) +3 (D) +1
- Q 77. In zero order reaction, the rate is independent of
(A) Temperature of reaction (B) Concentration of reactants (C) Concentration of products (D) None of these