Entrance Exam

2024



QUESTION PAPER

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Atal Medical & Research University, H.P.

(A State Govt. University)

(SLBS Govt. Medical College & Hospital Campus, Ner Chowk, Mandi, H.P.)

Website:- www.amruhp.ac.in , Email: coemedicaluniv.mandi@gmail.com, Phone No. 01905-243967

Answer keys

for B. Sc. Nursing Entrance test

Paper Code-2401

held on 7th July, 2024

Morning Shift (10:00 AM to 12:00 Noon)

If a candidate does not satisfy with the key answers, he/she can make representation with documentary proof to the COE, Atal Medical and Research University, HP, at Nerchowk, Distt. Mandi, HP-175008 through email on coemedicaluniv.mandi@gmail.com up to 09.07.2024 by 05:00 PM and thereafter, no representation will be entertained under any circumstances.

-Sd/-

(Dr. Parveen Kumar Sharma)

Controller of Examinations

Atal Medical & Research University, HP,

Ner Chowk, Distt. Mandi.

To be filled by the candidate) **Booklet S. No. _____**

Roll No. (In figures) _____

Roll No. (In words) _____

_____

Name of the Candidate : _____

Father's Name : _____

Center of Examination : _____

Total No. of Questions : 100

Paper Code- 2401

Time Allowed : 2 Hours **Maximum Marks : 100**

IMPORTANT NOTE:

(i) OMR Answer Sheet will be supplied by the Examination Centre Superintendent for answering the questions.

(ii) Use **Blue/Black Ink/ Ball Pen only**, to darken the appropriate circle in the OMR Answer Sheet.

(iii) Darken one circle deeply for each question in the OMR Answer Sheet, as faintly darkened circle might be rejected by the Optical Scanner.

(iv) Darkening of more than one circle shall be rejected by the scanner. **Over-writing, cutting, erasing or use of White Fluid is not allowed.**

(v) Before dealing with the question paper, fill-up the required information with Blue/Black Ball Pen correctly both in the Question Booklet and in the OMR Answer Sheet.

(vi) Do not fold the OMR Answer Sheet nor put any mark here and there to avoid rejection by the Optical Scanner.

(vii) Write Roll. No. carefully on the OMR Answer Sheet and darken the appropriate circle properly.

(viii) **Each question carries One Mark. There will be No Negative Marking.**

(ix) **Use of Calculator is not allowed.**

(x) **No over-writing, cutting, erasing or use of white fluid is allowed.**

(xi) Rough work be done on the sheet(s) at the end.

(xii) **MOBILE TELEPHONES (EVEN ON SWITCH-OFF MODE) AND SUCH OTHER ELECTRONIC DEVICES ARE NOT ALLOWED INSIDE THE EXAMINATION HALL.**

(xiii) The question paper-booklet will be retained by the candidate after the entrance test is over.

(xiv) **Question No 1 - 20 is Biology, 21 – 40 is Physics, 41 – 60 is Chemistry, 61 – 80 is Nursing Aptitude and 81 – 100 is English.**



Biology

Q1. Pollination in closed flower is called
(a) Cleistogamy
(b) Chasmogamy
(c) Xenogamy
(d) Geitonogamy

Answer (a) Cleistogamy

Q2. The Uterus is single in female and it is also called as:
(a) Cervix
(b) Ovary
(c) Womb
(d) Ampulla

Answer (c) Womb

Q3. Family Planning Programme were initiated in the year
(a) 1947
(b) 1975
(c) 1981
(d) 1951

Answer (d) 1951

Q4. F_1 generation resembles both the parents in
(a) Incomplete dominance
(b) (b) Co-Dominance
(c) (c) Pleiotropy
(d) (d) Law of Dominance

Answer (b) Co-Dominance

Q5. In Lac Operon the number of Structural genes are
(a) Five
(b) Four
(c) Three
(d)Two

Answer (c) Three

Q6. When original drifted population becomes founders, effect is called
(a) Founder effect
(b) Industrial Melanism
(c) Adaptive Radiation
(d) Mutation Effect

Answer (a) Founder effect

Q7. The Yellowish fluid Colostrum secreted by Mother during the initial days of lactation has Abundant
(a) Antigens
(b) Antibodies
(c) Allergy
(d) Oncogenes

Answer (b) Antibody

Q8. Large holes in "Swiss Cheese" are due to production of large amount of
(a) H_2SO_4
(b) O_2
(c) CO_2
(d) H_2S

Answer (c) CO_2

Q9. DNA fragments can be joined together by using
(a) Restriction Endonuclease
(b) Okazaki Fragments
(c) DNA Ligase
(d) DNA Helicase
Answer (c) DNA Ligase

Q10. When one species cause harm to another organism without any cost or benefits to itself
(a) Commensalism
(b) Amensalism
(c) Predation
(d) Mutualism
Answer (b) Amensalism

Q11. The smallest living cells are
(a) Mycoplasma
(b) Bacteria
(c) Fungus
(d) Bacteriophage
Answer (a) Mycoplasma

Q12. Plants having naked seeds are
(a) Angiosperms
(b) Gymnosperms
(c) Pteridophytes
(d) Bryophytes
Answer (b) Gymnosperms

Q13. Presence of feathers are characteristics of
(a) Mammals
(b) Reptiles
(c) Aves
(d) Amphibians
Answer (c) Aves

Q14. When Sepals are united, condition is called
(a) Polysepalous
(b) Polypetalous
(c) Gamopetalous
(d) Gamosepalous
Answer (d) Gamosepalous

Q15. Cell Theory was given by
(a) Singer and Nicolson
(b) Rudolf Virchow
(c) Schleiden and Schwann
(d) Robertson
Answer (c) Schleiden and Schwann

Q16. Kranz Anatomy is found in leaves of
(a) C_4 Plants
(b) C_3 Plants
(c) C_2 Plants
(d) All of the above
Answer (a) C_4 Plants

Q17. Each Mammalian Haemoglobin molecule can carry a maximum number of…….molecules of Oxygen
(a) 5
(b) 4
(c) 3
(d) 2
Answer (b) 4

Q18. Which one of following is not a part of E.C.G.

(a) P-Wave
(b) Q -Wave
(c) T-Wave
(d) Z-Wave

Answer (d) Z-Wave

Q19. Accumulation of Urea in blood is called

(a) Angina
(b) Gout
(c) Uremia
(d) Osteoporosis

Answer (c) Uremia

Q20. The Site for Active ribosomal RNA Synthesis is

(a) Ribosome
(b) Mitochondria
(c) Nucleolus
(d) Vacuoles

Answer (c) Nucleolus

Physics

Q21. The dimensions of Plank's Constant equals to that of

a) Energy
b) Momentum
c) Angular momentum
d) Power

Ans c

Q22. The angle between two equal vectors is

a) 0° b) 30° c) 90° d)180°

Ans a

Q23. Change in momentum is given by

a) Force x Mass
b) Force x Time
c) Force x Velocity
d) Force x Distance

Ans b

Q24. Ev is the unit of

a) Charge
b) Voltage
c) Energy
d) Acceleration

Ans c

Q25. For which of the following does the centre of mass lie outside the body?

a) a pencil
b) a dice
c) a bangle
d) a shotput

Ans c

Q26. The acceleration due to gravity at the centre of earth is

a) $9.8\ ms^{-2}$
b) $4.9\ ms^{-2}$
c) Zero
d) None of these

Ans c

Q27. An ice cube floats in a glass of water. What happens to the level of water in the glass when ice melts?

a) Decreases
b) Increases
c) Remains the same
d) First increases and then decreases

Ans c

Q28. Degree of freedom of a monoatomic gas molecule is

a) 3
b) 5
c) 6
d) 7

Ans a

Q29. The Phenomenon of round propagation in air is

a) Isothermal process
b) Adiabatic process
c) Isobaric process
d) Isochoric process

Ans b

Q30. For an ideal gas

a) $C_p < C_v$
b) $C_p = C_v$
c) $C_p > C_v$
d) $C_p = C_v = 0$

Ans c

Q31. In a nonuniform electric field, electric dipole experiences

a) Torque only
b) Torque as well as net force
c) Force only
d) None of these

Ans b

Q32. If mobility of electron is u_e and mobility of hole is u_h then

a) $u_e = u_h$
b) $u_e > u_h$
c) $u_e < u_h$
d) $u_e \leq u_h$

Ans b

Q33. A galvanometer acting as voltmeter will have

a) High resistance in parallel with its coil
b) High resistance in series with its coil
c) Low resistance in parallel with coil
d) Low resistance in series with coil

Ans c

Q34. A transformer is a device which transform

a) DC voltage
b) AC voltage
c) AC and DC voltage
d) None

Ans b

Q35. Which of the following has smallest wavelength

a) Yellow rays
b) X-rays
c) $\propto$-rays
d) γ-rays

Ans d

Q36. Image formed by an objective of a compound microscope is

a) Virtual and enlarged
b) Virtual and diminished
c) Real and diminished
d) Real, enlarged and inverted

Ans d

Q37. If the particles are moving with same velocity, then maximum de-Broglie wavelength is for

a) Proton
b) Neutron
c) $\propto$-particle
d) β- particle

Ans d

Q38. Demodulation is essential feature of a

a) Transmitter
b) Receiver
c) Medium
d) None of these

Ans b

Q39. Which sphere of atmosphere is closest to earth

a) Troposphere
b) Stratosphere
c) Mesosphere
d) Ionosphere

Ans a

Q40. Torque acting on electric dipole moment $\vec{P}$ placed in uniform electric field $\vec{E}$ is

a) $\vec{P}$ x $\vec{E}$
b) $\vec{P}.\vec{E}$
c) $\vec{P}$ x $\vec{E}$ x $\vec{P}$
d) $\frac{\vec{E}\cdot\vec{P}}{D^2}$

Ans a

Chemistry

Q41. Which of the following term is unitless-

a) Molality
b) Molarity
c) Mole fraction
d) Strength

Ans- C

Q42. The maximum number of electrons in a subshell is given by the expression

a) 4l – 2
b) 4l +2
c) 2l + 1
d) $2n^2$

Ans- B

Q43. Which of the following is not a transition metal

a) Silver
b) Lead (Pb)
c) Tungsten (w)
d) Manganese (Mn)

Ans- B

Q44. The ratio of π to σ bond in benzene is

a) 1 : 2
b) 1 : 6
c) 1 : 4
d) 1 : 1

Ans- C

Q45 The spherical shape of rain water droplet is due to

a) Viscosity
b) Surface tension
c) Temperature
d) Pressure

Ans- B

Q46. The normal P.H range of human blood is

a) 0 – 5.25
b) 7.35 – 7.45
c) 6.25 – 6.75
d) 8.00 – 9.25

Ans- B

Q47. The electrode potential of standard hydrogen electrode (SHE) fixed is

a) 0.34 V
b) – 0.44 V
c) 0 V
d) – 0.76 V

Ans- C

Q48. The formula of Soda ash is-

a) Na_2CO_3 . 10 H_2O
b) $Na_2 Co_3$. 2 H_2O
c) Na_2CO_3. H_2O
d) Na_2CO_3

Ans- D

Q49. Reduction process involve-

a) Gain of electrons
b) Addition of oxygen
c) Loss of electrons
d) Increase in oxidation number

Ans- A

Q50. An electrophilic reagent is

a) Electron deficient species
b) Electron rich species
c) Negatively charged species
d) None of above

Ans- A

Q51. The IUPAC Name of the compound

$CH_3 – CH = CH – C \equiv CH$ is

a) Pent- 2 en-4-yne
b) Pent-1-en-4-yne
c) Pent-3-en-1-yne
d) Pent-2-en-5-yne

Ans- C

Q52. The Chlorination of methane is an example of
a) Elimination reaction
b) Substitution reaction
c) Addition reaction
d) Oxidation reaction
Ans- B

Q53. Isotonic solutions have
a) Same boiling point
b) Same vapor pressure
c) Same melting point
d) Same osmotic pressure
Ans-D

Q54. The Concentration Term independent of temperature is
a) Normality
b) Volume percentage
c) Molality
d) Molarity
Ans-C

Q55. For redox reaction to proceed in a cell, the e.m.f must be
a) Positive
b) Negative
c) Fixed
d) Zero
Ans- A

Q56. The unit of cell constant is
a) $Ohm^{-1}\ cm^{-1}$
b) Cm
c) Ohm^{-1} cm
d) Cm^{-1}
Ans- D

Q57. For a zero order reaction, the rate of reaction is
a) Independent of initial conc. of reactants
b) Depends upon initial conc. of reactants
c) Both of above
d) None of above
Ans- A

Q58. Transition metals behave as good catalyst because
a) High melting point
b) High ionization enthalpy
c) Alloy formation
d) Variable oxidation states
Ans- D

Q59. EDTA is
a) Unidentate ligand
b) Bidentate ligand
c) Tridentate ligand
d) Hexadentate ligand
Ans- D

Q60 Which of the following is colligative property
a) Relative Lowering in vapour pressure
b) Lowering in vapour pressure
c) Vapour pressure
d) Saturated Pressure
Ans- A

Subject-Nursing Aptitude

Q61. Highest source of vitamin A is
a) Papaya
b) Green Leafy vegetable
c) Cod Liver oil
d) Carrot
Answer - C

Q62. Which one of the following organs breaks fat to produce cholesterol?
(a) Lungs
(b) Intestine
(c) Liver
(d) Kidneys
Answer - C

Q63. Who has propounded the word "Vitamin''?
(a) Darwin
(b) Pasteur
(c) Landeck
(d) Carimir Funk
Answer - D

Q64. Which of the following has a oxygenated blood?
(a) Renal Veins
(b) Pulmonary Veins
(c) Pulmonary artery
(d) Hepatic portal veins
Answer - B

Q65. Which part of brain is responsible for respiration?
(a) Pons
(b) Cerebrum
(c) Medulla oblongata
(d) Gyri
Answer – C

Q66. The meiotic division takes place in
a) Meristematic cells
b) Conductive cells
c) Reproductive cells
d) Vegetable cells
Answer – c

Q67. What is the standard value of ph range of acids?
(a) 0-7
(b) 7-14
(c) 2-7
(d) 7-15
Answer - A

Q68. What is the SI unit of current?
(a) Coulomb
(b)Ampere
(c) Ohm
(d) Volt
Answer - B

Q69. Name the part of the body on which corona virus affects the most?
(a) Heart
(b) Liver
(c) Kidney
(d) Lungs
Answer – D

Q70. What is the chemical formula of alcohol?
(a) C_2H_5OH
(b) C_2H_5
(c) C_2H_5COOH
(d) C_2H_5O
Answer – A

Q71. What is the scientific name of Humans?
(a) Mangifera Indica
(b) Rana Tigrina
(c) Homo sapiens
(d) Homo species
Answer - C

Q72. Which of the following hormones stimulates the development of ovarian follicles?
(a) FSH
(b) Estrogen
(c) Progesterone
(d) L. H.
Answer - A

Q73. What to be call the nuclides having same mass numbers?
(a) Isotopes
(b) Isobars
(c) Isotones
(d) Such species don't exist
Answer - B

Q74. Who is the father of Genetics?
(a) Gregor mendel
(b) Thomas hunt morgan
(c) Francis galton
(d) Krateuas
Answer - A

Q75. Which of the following is the lens of the eye?
(a) Concave
(b) Biconcave
(c) Biconvex
(d) None of above
Answer – C

Q76. How many bones are present in the middle ear?
(a) 2
(b) 3
(c) 6
(d) 9
Answer - B

Q77. Which of the following is not an infectious disease?
(a)Cholera
(b) Chicken pox
(c) Malaria
(d) Alzheimers
Answer - D

Q78. Which vitamin is responsible for wound healing?
(a) Vitamin A
(b) Vitamin B
(c) Vitamin K
(d) Vitamin C
Answer- D

Q79. In RNA of humans adenine pairs with
(a) Uracil
(b) Guanine
(c) Thymine
(d) None of the above
Answer - A

Q80. Which of the following is the functional unit of body?
(a) Mitochondria
(b) Cytoplasm
(c)Spleen
(d) Cell
Answer - D

English

Q81. She dyed her hair and wore dark glasses……people wouldn't recognise her.
(a) if only
(b) so that
(c) never again
(d) even so
Answer - B

Q82. The doctor recommended that I……. More careful with my diet.
(a) be
(b) will be
(c) am
(d) was
Answer- A

Q83. Select the most appropriate synonym of the word "erase":
(a) Dilute
(b) Aerate
(c) Delete
(d) Ignite
Answer- C

Q84. Select the most appropriate Antonym of the word "glut":
(a) Shortage
(b) Shout
(c) Sick
(d) Shroud
Answer- A

Q85. Select the most appropriate Antonym of the word "incidental":
(a) Fortunate
(b) Planned
(c) Important
(d) Arbitrary
Answer - B

Q86. Select the most appropriate synonym of the word "tedious":
(a) Interesting
(b) Boring
(c) Exiting
(d) Confusing
Answer-B

Q87. Select the most appropriate synonym of the word "unpredictable":
A. Expected
B. Surprising
C. Clear
D. Boring
Answer -B

Q88. Select the most appropriate Antonym of the word "jubilant":
(a) Happy
(b) Depressed
(c) Surprised
(d) Confused
Answer -A

Q89. Choose the word that is spelled correctly.
(a) Embarassment
(b) Embarrassment
(c) Embarrasment
(d) Embarassmentt
Answer – B

Q90. Choose the word that is spelled correctly.
(a) accomodate
(b) accommodate
(c) accomodation
(d) accomodated
Answer - B

Q91. Choose the word that is spelled correctly.
(a) Beleive
(b) believe
(c) belive
(d) beleiveing
Answer -B

Q92. A person who renounces the world and practice self-discipline in order to attain salvation;
(a) sceptic
(b) Ascetic
(c) Devotee
(d) Antiquarian
Answer -B

Q93. A sad song is;
(a) Ditty
(b) Knell
(c) Dirge
(d) Lay
Answer - C

Q94. A disease which spread by contract;
(a) incurable
(b) Infectious
(c) Contagious
(d) Fatal
Answer – C

Q95. She is interested…… learning a new language
(a) At
(b) To
(c) On
(d) In
Answer - D

Q96. He ran …..the house
(a) Onto
(b) Into
(c) TO
(d) For
Answer- B

Q97. I usually.....for a walk every morning
(a) Goes
(b) Go
(c) Will go
(d) Have go
Answer -B

Q98. What are you doing here? She asked me.
(a) She asked what I was doing here
(b) She wanted to know what I am doing here
(c) She wants to know what I was doing here
(d) She wanted to know what I was doing here
Answer - D

Q99. The lawyer said to his client, "We will win the case."
(a) The lawyer told to his client that they would win the case.
(b) The lawyer said that the client would win the case.
(c) The lawyer told his client that they should win the case.
(d) The lawyer told the client that they would win the case.
Answer – D

Q100. We must respect the elders
(a) The elders deserves respect from us
(b) The elders must be respected
(c) The elder respect must respected
(d) Respect the elder we must

Answer -B

Rough Page

Rough Page

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