



Atal Medical & Research University, H.P.

(A State Govt. University)

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

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Answer Keys

B. Sc. Nursing Course

Paper Code- 2601

Series-C

held on 2nd August, 2026

Morning Shift (11:00 AM to 01:00 PM)

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 06.08.2026 by 05:00 PM and thereafter, no representation will be entertained under any circumstances.

-Sd/-

(Dr. Rajesh Kumar)

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 : _____

Center of Examination : _____

Total No. of Questions : 100

B. Sc. Nursing Entrance Test
Paper Code- 2601
Series-C

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) The **Carbon Copy of the OMR Answer Sheet** may be retained by the candidate **only after permission is granted by the Invigilator.**

Rough Page

AMRU, HP

Physics

Q1. Which of the following measurement is the most precise?

- (a) 7.00 m
- (b) 7.0 km
- (c) 7.4 cm
- (d) 7.00 mm

Answer: (d) 7.00 mm

Q2. What does the speedometer of a vehicle read?

- (a) Average speed
- (b) Average velocity
- (c) Instantaneous speed
- (d) Instantaneous velocity

Answer: (c) Instantaneous speed

Q3. When a bus suddenly stops, the passengers fall forward due to:

- (a) Inertia of motion
- (b) Inertia of direction
- (c) Gravitational pull by earth
- (d) Momentum of bus

Answer: (a) Inertia of motion

Q4. A force does maximum work on an object when the angle between force and displacement is:

- (a) 0°
- (b) 30°
- (c) 90°
- (d) 60°

Answer: (a) 0°

Q5. The Torque of a force $\vec{F} = -3\hat{i} + \hat{j} + 5\hat{k}$ acting at the point $\vec{r} = 7\hat{i} + 3\hat{j} + \hat{k}$ is-

- (a) $14\hat{i} - 38\hat{j} + 16\hat{k}$
- (b) $4\hat{i} + 4\hat{j} + 6\hat{k}$
- (c) $-21\hat{i} + 4\hat{j} + 4\hat{k}$
- (d) $-14\hat{i} + 38\hat{j} - 16\hat{k}$

Answer: (a) $14\hat{i} - 38\hat{j} + 16\hat{k}$

Q6. If we move from equator to pole, the value of acceleration due to gravity:

- (a) First increases then decreases
- (b) Remains same
- (c) Increases
- (d) Decreases

Answer: (c) Increases

Q7. Which of the following has the highest elasticity?

- (a) Plastic
- (b) Steel
- (c) Copper
- (d) Rubber

Answer: (b) Steel

Q8. A gas performs minimum work when it expands:

- (a) Adiabatically
- (b) Isothermally
- (c) Isobarically
- (d) Isochoric ally

Answer: (d) Isochoric ally

Q9. The number of degrees of freedom of a rigid diatomic gas is:

- (a) 5
- (b) 4
- (c) 6
- (d) 7

Answer: (a) 5

Q10. Distance between two consecutive nodes is:

- (a) $\lambda/2$
- (b) $\lambda/4$
- (c) λ
- (d) 2λ

Answer: (a) $\lambda/2$

Q11. The angle between dipole moment and net electric field due to an electric dipole on equatorial line is:

- (a) 0°
- (b) 90°
- (c) 180°
- (d) 120°

Answer: (c) 180°

Q12. If the radius of copper wire is doubled, what will be the effect on its specific resistance?

- (a) Remains same
- (b) Becomes two times
- (c) Decreases
- (d) Decreases four times

Answer: (a) Remains same

Q13. One Tesla is equal to:

- (a) 10^7 gauss
- (b) 10^{-4} gauss
- (c) 10^4 gauss
- (d) 10^{-6} gauss

Answer: (c) 10^4 gauss

Q14. Lenz law is a consequence of the law of conservation of:

- (a) Charge
- (b) Mass
- (c) Energy
- (d) Momentum

Answer: (c) Energy

Q15. Which of the following is most penetrating radiation?

- (a) Alpha rays
- (b) Gamma rays
- (c) Beta rays
- (d) X-rays

Answer: (b) Gamma rays

Q16. How are resolving power (RP) and limit of resolution (LR) of an optical instrument is related?

- (a) $LR = RP$
- (b) $LR^2 = RP$
- (c) $RP = 1/LR$
- (d) $LR = \sqrt{RP}$

Answer: (c) $RP = 1/LR$

Q17. The time taken by light to travel a distance of 3 cm is:

- (a) 10^{-8} s
- (b) 10^{-9} s
- (c) 10^{-10} s
- (d) 10^{10} s

Answer: (c) 10^{-10} s

Q18. Electron volt (eV) is a unit of:

- (a) Potential
- (b) Energy
- (c) Charge
- (d) Current

Answer: (b) Energy

Q19. The energy equivalent of one atomic mass unit (amu) is:

- (a) 1.6×10^{-19} J
 - (b) 6.02×10^{-23} J
 - (c) 9.1×10^{-31} J
 - (d) 931 MeV
- Answer: (d) 931 MeV

Q20. Which of the following elements is a semiconductor?

- (a) Na
 - (b) Ba
 - (c) Sr
 - (d) Ge
- Answer: (d) Ge

NURSING APTITUDE

Q21. A nurse is assigned to multiple patients at the same time. Best action:

- a) Ignore documentation
- b) Prioritize care based on patient condition
- c) Leave duty early
- d) Delay medication

Answer: b) Prioritize care based on patient condition

Q22. A child is anxious before injection. Nurse should:

- a) Forcefully give injection
- b) Explain calmly and use distraction technique
- c) Avoid procedure
- d) Call parents only

Answer: b) Explain calmly and use distraction technique

Q23. A nurse sees a medication error made by another nurse. First action:

- a) Inform senior nurse
- b) Hide the mistake
- c) Tell other patients
- d) Ignore it

Answer: a) Inform senior nurse

Q24. Most effective method to prevent infection:

- a) Mask only
- b) Hand hygiene
- c) Gloves only
- d) Antibiotics

Answer: b) Hand hygiene

Q25. A patient has airway obstruction. First priority:

- a) Oxygen
- b) Airway clearance
- c) IV fluids
- d) Medication

Answer: b) Airway clearance

Q26. Before giving insulin, nurse should:

- a) Check blood glucose level
- b) Give immediately
- c) Skip documentation
- d) Ask relatives

Answer: a) Check blood glucose level

Q27. A confused patient is trying to get out of bed. Nurse should:

- a) Leave patient alone

- b) Apply restraints without order
- c) Ensure safety and supervision
- d) Ignore behavior

Answer: c) Ensure safety and supervision

Q28. Which patient is attended first?

- a) Stable post-op patient
- b) Child with breathing difficulty
- c) Patient asking water
- d) Patient waiting for discharge

Answer: b) Child with breathing difficulty

Q29. Sharing patient reports on social media is:

- a) Acceptable
- b) Ethical
- c) Breach of confidentiality
- d) Required

Answer: c) Breach of confidentiality

Q30. Nursing records should be:

- a) Delayed
- b) Accurate and timely
- c) Written at end of week
- d) Optional

Answer: b) Accurate and timely

Q31. A good nurse leader should:

- a) Avoid decisions
- b) Guide and support team
- c) Work alone only
- d) Ignore staff issues

Answer: b) Guide and support team

Q32. Best way to manage workload:

- a) Do easy tasks first
- b) Prioritize critical patients
- c) Delay care
- d) Skip reporting

Answer: b) Prioritize critical patients

Q33. Patient has right to:

- a) Refuse treatment
- b) Ignore advice
- c) Leave without information
- d) Avoid consent

Answer: a) Refuse treatment

Q34. In cardiac arrest, first action:

- a) Call doctor
- b) Start CPR
- c) Give fluids
- d) Wait

Answer: b) Start CPR

Q35. Best nursing quality:

- a) Strictness
- b) Empathy
- c) Ignorance
- d) Delay

Answer: b) Empathy

Q36. Task delegation should be based on:

- a) Friendship
- b) Staff competency
- c) Seniority only
- d) Random selection

Answer: b) Staff competency

Q37. Patient does not understand language. Nurse should:

- a) Shout
- b) Use interpreter or visual aids
- c) Ignore
- d) Stop care

Answer: b) Use interpreter or visual aids

Q38. Nurse should maintain:

- a) Personal bias
- b) Professional boundaries
- c) Emotional reaction
- d) Partiality

Answer: b) Professional boundaries

Q39. Best practice to prevent falls:

- a) No supervision
- b) Bed rails and monitoring
- c) Remove call bell
- d) Leave patient alone

Answer: b) Bed rails and monitoring

Q40. In emergency, nurse should first:

- a) Wait for doctor
- b) Act based on priority ABC (Airway, Breathing, Circulation)
- c) Document first
- d) Call relatives

Answer: b) Act based on ABC priority (Airway, Breathing, Circulation)

Biology

Q41. The basic unit of biological classification is the:

- (a) Genus
- (b) Species
- (c) Family
- (d) Order

Answer = (b) Species

Q42. Coralloid roots containing N_2 fixing cyanobacteria are found in

- (a) Sequoia
- (b) Picea
- (c) Cycas
- (d) pinus

Answer = (c) Cycas

Q43. Active cell division is primary characteristic of which tissue

- (a) Parenchyma
- (b) Meristematic
- (c) Sclerenchyma
- (d) Collenchyma

Answer = (b) Meristematic

Q44. Which is the important site of formation of glycoprotein and glycolipid in eukaryotic cell

- (a) Peroxisomes

- (b) Golgi bodies
- (c) Polysome
- (d) Endoplasmic reticulum

Answer = (b) Golgi bodies

Q45. Amino acids are linked together by which bond to form proteins?

- (a) Glycosidic bond
- (b) Phosphodiester bond
- (c) Peptide bond
- (d) Hydrogen bond

Answer = (c) Peptide bond

Q46. Meiosis results in

- (a) Production of gametes
- (b) Reduction in the number of chromosomes
- (c) Introduction of variation
- (d) All the above

Answer = (d) All the above

Q47. Blackman's Law of limiting factor states that if a chemical process is affected by more than one factor then one factor, its will be determined by the factor which is

- (a) Most abundant in the environment
- (b) Nearest to minimal value
- (c) maintain at an optimal value

- (d) Totally absent in environment.

Answer = (b) Nearest to minimal value

Q48. When Proteins are used as respiratory substrates the Respiratory Quotient would be about:

- (a) 0.9
- (b) 0.7
- (c) 1
- (d) 1.7

Answer = (a) 0.9

Q49. Respiratory Rhythm centre of breathing is located in

- (a) Pons
- (b) Crura cerebri
- (c) Medulla oblongata
- (d) Cerebellum

Answer = (c) Medulla oblongata

Q50. A mineral element playing important role in clotting of blood

- (a) Calcium
- (b) Magnesium
- (c) Zinc
- (d) Sodium

Answer = (a) Calcium

Q51. The following substances are the excretory product in animals. Choose the least toxic among them

- (a) Urea
- (b) Uric acid
- (c) Ammonia
- (d) Carbon dioxide

Answer = (b) Uric acid

Q52. Which of the following was proved helpful in preserving pollens as fossils

- (a) Pollen Tube
- (b) Cellulosic intine
- (c) Pollen Kitt
- (d) Sporopollenin.

Answer = (d) Sporopollenin

Q53. Fertilisation of sperm and Ovum take place in:

- (a) Uterus
- (b) Ampullary region
- (c) Cervix
- (d) Ovary

Answer = (b) Ampullary region

Q54. In IUT embryo with more than 8 blastomeres formed by *In vitro* fertilisation is transferred into

- (a) Cervix

- (b) Uterus
- (c) Fallopian tube
- (d) Fimbriae

Answer = (b) Uterus

Q55. Possibility of the blood groups of the children in a family where the father is heterozygous for blood group A and mother is heterozygous for blood group B would be:

- (a) Blood groups A, B
- (b) Blood groups A, B, O
- (c) Blood groups AB, O
- (d) Blood groups A, B, AB, O

Answer = (d) Blood groups A, B, AB, O

Q56. Which among the following was the first genetic material :

- (a) DNA
- (b) RNA
- (c) Lipid
- (d) cellulose

Answer = (b) RNA

Q57. The concept of "saltation" was proposed by Hugo de Vries to explain evolution. It refers to:

- (a) Single-step large mutation

- (b) Gradual accommodation of small variation
- (c) Environment impact on phenotype
- (d) Non-random mating patterns.

Answer = (a) Single-step large mutation

Q58. The primary lymphoid organ is/are:

- (a) Bone marrow
- (b) Thymus
- (c) Both (a) and (b)
- (d) None of the above

Answer = (c) Both a and b

Q59. Which of the following microorganisms is used for production of a commercial blood cholesterol-lowering agent?

- (a) *Trichoderma polysporum*
- (b) *Monascus purpureus*
- (c) *Aspergillus niger*
- (d) *Saccharomyces cerevisiae*

Answer = (b) *Monascus purpureus*

Q60. A foreign DNA and plasmid cut by same restriction endonuclease can be joined to form recombinant plasmid using

- (a) Ligase

- (b) *Eco* RI
- (c) Taq polymerase
- (d) Polymerase II

Answer = (a) Ligase

Chemistry

Q61. 1 amu is equal to

- (a) 1/12 of C-12
- (b) 1/14 of O-16
- (c) 1 g of H₂
- (d) 1.66×10^{-24} kg

Answer (a) 1/12 of C-12

Q62. The numbers of electrons present in the orbitals for which $n = 3$ and $l = 1$ are

- (a) 2
- (b) 6
- (c) 10
- (d) 14

Answer (b) 6

Q63. Which of the following has largest size?

- (a) Na
- (b) Na⁺
- (c) Na⁻
- (d) Can't be predicted

Answer (c) Na^-

Q64. Identify a molecule which does not exist

- (a) He_2
- (b) Li_2
- (c) C_2
- (d) O_2

Answer (a) He_2

Q65. Unit of entropy is

- (a) $\text{J K}^{-1} \text{mol}^{-1}$
- (b) J mol^{-1}
- (c) $\text{J}^{-1} \text{K}^{-1} \text{mol}^{-1}$
- (d) J K mol^{-1}

Answer (a) $\text{J K}^{-1} \text{mol}^{-1}$

Q66. Calculate the pH of a solution at 25°C that contains $1 \times 10^{-4} \text{ M}$ of H_3O^+ ?

- (a) 4.000
- (b) 10.000
- (c) 7.000
- (d) 2.000

Answer (a) 4.000

Q67. The oxidation state of Cr in $\text{Cr}_2\text{O}_7^{2-}$ is

- (a) +4

(b) +5

(c) +7

(d) +6

Answer (d) +6

Q68. The number of σ and π bonds in ethene (C_2H_4) are respectively:

- A) $4\sigma, 1\pi$
- B) $5\sigma, 1\pi$
- C) $5\sigma, 2\pi$
- D) $6\sigma, 1\pi$

Answer B) $5\sigma, 1\pi$

Q69. Which of the following is used as an anti-knocking material?

- (a) Glyoxal
- (b) Freon
- (c) T.E.L.(Tetra ethyl lead)
- (d) Ethyl alcohol

Answer (c) T.E.L.(Tetra ethyl lead)

Q70. Geometrical isomers differ in

- (a) Position of functional group
- (b) Position of atoms
- (c) Spatial arrangement of atoms
- (d) Length of carbon chain

Answer (c) Spatial arrangement of atoms

Q71. According to Raoult's law, the relative lowering in vapour pressure for a solution is equal to

- (a) Mole fraction of solute
- (b) Mole fraction of solvent
- (c) Moles of solute
- (d) Moles of solvent

Answer (a) Mole fraction of solute

Q72. The standard electrode potential for Hydrogen electrode is

- (a) -0.76 V
- (b) +0.34 V
- (c) 0.0 V
- (d) 1.10 V

Answer (c) 0.0 V

Q73. The given reaction $2\text{FeCl}_3 + \text{SnCl}_2 \rightarrow 2\text{FeCl}_2 + \text{SnCl}_4$ is an example of

- (a) Third order reaction
- (b) First order reaction
- (c) Second order reaction
- (d) None of these

Answer (a) Third order reaction

Q74. Ethylene diamine tetraacetate (EDTA) ion is

- (a) Tridentate ligand
- (b) Hexadentate ligand
- (c) Unidentate ligand
- (d) Bidentate ligand

Answer (b) Hexadentate ligand

Q75. Which ion is colourless?

- (a) Cu^{4+}
- (b) Sc^{3+}
- (c) Ti^{3+}
- (d) V^{3+}

Answer (b) Sc^{3+}

Q76. The alkyl halide is converted into an alcohol by

- (a) Elimination reaction
- (b) Dehydrohalogenation reaction
- (c) Addition reaction
- (d) Substitution reaction

Answer (d) Substitution reaction

Q77. Lucas reagent is

- (a) Conc. HCl and anhydrous ZnCl_2
- (b) Conc. HNO_3 and hydrous ZnCl_2
- (c) Conc. HNO_3 and anhydrous ZnCl_2
- (d) Conc. HCl and hydrous ZnCl_2

Answer (a) Conc. HCl and anhydrous ZnCl_2

Q78. Carboxylic acids have higher boiling points than aldehydes, ketones and even alcohols of comparable mass. It is due to

- (a) Formation of intramolecular H-bonding
- (b) Formation of carboxylate ion
- (c) Formation of intermolecular H-bonding
- (d) None of these

Answer (c) Formation of intermolecular H-bonding

Q79. Which of the following is non-reducing sugar?

- (a) Glucose
- (b) Sucrose
- (c) Maltose
- (d) Lactose

Answer (b) Sucrose

Q80. Which of the following vitamin is water soluble?

- (a) Vitamin E
- (b) Vitamin K
- (c) Vitamin A
- (d) Vitamin B

Answer (d) Vitamin B

English

Q81. He is _____ honest man.

- (a) a
- (b) an
- (c) the

(d) none

Answer = B

Q82. She is _____ university professor.

- (a) a
- (b) an
- (c) the
- (d) none

Answer = A

Q83. He has _____ European car.

- (a) a
- (b) an
- (c) the
- (d) none

Answer = A

Q84. She insisted _____ going there.

- (a) at
- (b) on
- (c) for
- (d) with

Answer = B

Q85. He was accused _____ theft.

- (a) for
- (b) with
- (c) of

(d) from

Answer = C

Q86. She sat _____ me and my sister.

- (a) among
- (b) between
- (c) beside
- (d) besides

Answer = B

Q87. He jumped _____ the river.

- (a) into
- (b) in
- (c) over
- (d) onto

Answer = A

Q88. She kept the flowers in a

_____.

- (a) basket
- (b) bottle
- (c) vase
- (d) plate

Answer = C

Q89. "He is poor but _____."

- (a) greedy
- (b) coward
- (c) honest

(d) Rude

Answer = C

Q90. The _____ was investigating the matter.

- (a) doctor
- (b) police
- (c) driver
- (d) soldier

Answer = B

Q91. Keep the milk in the _____ so it stays cold.

- (a) oven
- (b) cupboard
- (c) refrigerator
- (d) basket

Answer = C

Q92. "He spoke softly."

Identify the name of the part of speech used in the word 'softly'.

- (a) noun
- (b) adverb
- (c) verb
- (d) interjection

Answer = B

Q93. Identify the part of speech in the underlined word:

The brave soldier fought fearlessly.

- (a) pronoun
- (b) adverb
- (c) adjective
- (d) interjection

Answer = C

Q94. Identify the part of speech in the underlined word:

Alas! The old man is dead.

- (a) pronoun
- (b) adverb
- (c) adjective
- (d) interjection

Answer = D

Q95. Identify the type of noun in the underlined word:

The team played brilliantly.

- (a) abstract noun
- (b) proper noun
- (c) collective noun
- (d) material noun

Answer = C

Q96. Identify the type of pronoun in the sentence:

Someone is knocking at the door.

- (a) Personal
- (b) Relative
- (c) Indefinite
- (d) Demonstrative

Answer = C

Q97. Identify the type of verb in the sentence:

She is writing a letter.

- (a) Linking verb
- (b) Non-finite verb
- (c) Intransitive verb
- (d) Verb phrase

Answer = D

Q98. Choose the correct sentence:

- (a) The sceneries of Kashmir are beautiful.
- (b) The scenery of Kashmir is beautiful.
- (c) The scenery of Kashmir are beautiful.
- (d) The sceneries of Kashmir is beautiful.

Answer = B

Q99. Choose the correctly spelt words:

- (a) Embarrasment
- (b) Embarrassment
- (c) Embarrasment
- (d) Embarresment

Answer = B

Q100. Choose the synonym of

‘Rapid’:

- (a) slow
- (b) fast
- (c) lazy
- (d) quiet

Answer = B