



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

B. Sc. Nursing Course

Paper Code- 2601

Series-B

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-B

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

NURSING APTITUDE

Q1. 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

Q2. 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

Q3. 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

Q4. Most effective method to prevent infection:

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

Answer: b) Hand hygiene

Q5. A patient has airway obstruction.

First priority:

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

Answer: b) Airway clearance

Q6. 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

Q7. 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

Q8. 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

Q9. Sharing patient reports on social media is:

- a) Acceptable
- b) Ethical

c) Breach of confidentiality
d) Required
Answer: c) Breach of confidentiality

c) Give fluids
d) Wait
Answer: b) Start CPR

Q10. Nursing records should be:
a) Delayed
b) Accurate and timely
c) Written at end of week
d) Optional
Answer: b) Accurate and timely

Q15. Best nursing quality:
a) Strictness
b) Empathy
c) Ignorance
d) Delay
Answer: b) Empathy

Q11. 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

Q16. Task delegation should be based on:
a) Friendship
b) Staff competency
c) Seniority only
d) Random selection
Answer: b) Staff competency

Q12. 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

Q17. 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

Q13. Patient has right to:
a) Refuse treatment
b) Ignore advice
c) Leave without information
d) Avoid consent
Answer: a) Refuse treatment

Q18. Nurse should maintain:
a) Personal bias
b) Professional boundaries
c) Emotional reaction
d) Partiality
Answer: b) Professional boundaries

Q14. In cardiac arrest, first action:
a) Call doctor
b) Start CPR

Q19. 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

Q20. 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

Q21. The basic unit of biological classification is the:

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

Answer = (b) Species

Q22. Coralloid roots containing N_2 fixing cyanobacteria are found in

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

Answer = (c) Cycas

Q23. Active cell division is primary characteristic of which tissue

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

Answer = (b) Meristematic

Q24. 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

Q25. 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

Q26. Meiosis results in

- (a) Production of gametes
- (b) Reduction in the number of chromosomes

(c) Introduction of variation

Answer = (c) Medulla oblongata

(d) All the above

Answer = (d) All the above

Q27. 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

Q28. 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

Q29. Respiratory Rhythm centre of breathing is located in

(a) Pons

(b) Crura cerebri

(c) Medulla oblongata

(d) Cerebellum

Q30. A mineral element playing important role in clotting of blood

(a) Calcium

(b) Magnesium

(c) Zinc

(d) Sodium

Answer = (a) Calcium

Q31. 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

Q32. 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

Q33. Fertilisation of sperm and Ovum take place in:

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

Answer = (b) Ampullary region

Q34. 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

Q35. 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

Q36. Which among the following was the first genetic material :

- (a) DNA
- (b) RNA

- (c) Lipid
- (d) cellulose

Answer = (b) RNA

Q37. 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

Q38. 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

Q39. 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*

(c) the

(d) none

Answer = A

Q40. 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

Q44. She insisted _____ going there.

(a) at

(b) on

(c) for

(d) with

Answer = B

English

Q41. He is _____ honest man.

(a) a

(b) an

(c) the

(d) none

Answer = B

Q45. He was accused _____ theft.

(a) for

(b) with

(c) of

(d) from

Answer = C

Q42. She is _____ university professor.

(a) a

(b) an

(c) the

(d) none

Answer = A

Q46. She sat _____ me and my sister.

(a) among

(b) between

(c) beside

(d) besides

Answer = B

Q43. He has _____ European car.

(a) a

(b) an

Q47. He jumped _____ the river.

(a) into

(b) in

(c) over

(d) onto

Answer = A

Q48. She kept the flowers in a _____.

(a) basket

(b) bottle

(c) vase

(d) plate

Answer = C

Q49. "He is poor but _____."

(a) greedy

(b) coward

(c) honest

(d) Rude

Answer = C

Q50. The _____ was investigating the matter.

(a) doctor

(b) police

(c) driver

(d) soldier

Answer = B

Q51. Keep the milk in the _____ so it stays cold.

(a) oven

(b) cupboard

(c) refrigerator

(d) basket

Answer = C

Q52. "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

Q53. Identify the part of speech in the underlined word:

The brave soldier fought fearlessly.

(a) pronoun

(b) adverb

(c) adjective

(d) interjection

Answer = C

Q54. 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

Q55. 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

Q56. Identify the type of pronoun in the sentence:

Someone is knocking at the door.

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

Answer = C

Q57. 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

Q58. 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

Q59. Choose the correctly spelt words:

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

Answer = B

Q60. Choose the synonym of 'Rapid':

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

Answer = B

Physics

Q61. 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

Q62. What does the speedometer of a vehicle read?

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

Answer: (c) Instantaneous speed

Q63. 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

Q64. 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°

Q65. 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) $14\hat{i} - 38\hat{j} + 16\hat{k}$

Q66. 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

Q67. Which of the following has the highest elasticity?

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

Answer: (b) Steel

Q68. A gas performs minimum work when it expands:

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

Answer: (d) Isochoric ally

Q69. The number of degrees of freedom of a rigid diatomic gas is:

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

Answer: (a) 5

Q70. Distance between two consecutive nodes is:

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

Answer: (a) $\lambda/2$

Q71. 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°

Q72. 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

Q73. 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

Q74. Lenz law is a consequence of the law of conservation of:

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

Answer: (c) Energy

Q75. Which of the following is most penetrating radiation?

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

Answer: (b) Gamma rays

Q76. 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) $RP = 1/LR$

Q77. 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

Q78. Electron volt (eV) is a unit of:

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

Answer: (b) Energy

Q79. 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

Q80. Which of the following elements is a semiconductor?

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

Answer: (d) Ge

Chemistry

Q81. 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

Q82. 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

Q83. Which of the following has largest size?

- (a) Na

(b) Na⁺

(c) Na⁻

(d) Can't be predicted

Answer (c) Na⁻

Q84. Identify a molecule which does not exist

- (a) He₂
- (b) Li₂
- (c) C₂
- (d) O₂

Answer (a) He₂

Q85. Unit of entropy is

- (a) J K⁻¹ mol⁻¹
- (b) J mol⁻¹
- (c) J⁻¹ K⁻¹ mol⁻¹
- (d) J K mol⁻¹

Answer (a) J K⁻¹ mol⁻¹

Q86. Calculate the pH of a solution at 25°C that contains 1×10^{-4} M of H₃O⁺ ?

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

Answer (a) 4.000

Q87. 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

Q88. The number of σ and π bonds in ethene (C_2H_4) are respectively:

- A) 4σ , 1π
- B) 5σ , 1π
- C) 5σ , 2π
- D) 6σ , 1π

Answer B) 5σ , 1π

Q89. 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)

Q90. 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

Q91. 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

Q92. 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

Q93. 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

Q94. Ethylene diamine tetraacetate (EDTA) ion is

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

Answer (b) Hexadentate ligand

Q95. Which ion is colourless?

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

Answer (b) Sc^{3+}

Q96. 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

Q97. 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

Q98. 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

Q99. Which of the following is non-reducing sugar?

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

Answer (b) Sucrose

Q100. Which of the following vitamin is water soluble?

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

Answer (d) Vitamin B