



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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Revised Answer keys for BSc Nursing Entrance Test held on 31st October, 2021

1. c	31. c	61. b	91. b
2. c	32. b	62. d	92. c
3. d	33. d	63. b	93. a
4. d	34. c	64. d	94. d
5. c	35. c	65. b	95. d
6. b	36. d	66. a	96. b
7. a	37. d	67. b	97. a
8. a	38. c	68. c	98. d
9. c	39. d	69. a	99. a
10.a	40. c	70. b	100.a
11.d	41. a	71. a	
12.b	42. b	72. c	
13.c	43. c	73. b	
14.d	44. a	74. d	
15.b	45. One mark to all candidates	75. a	
16.c	46. a	76. c	
17.d	47. a	77. b	
18.d	48. d	78. a	
19.b	49. b	79. b	
20.a	50. a	80. a	
21. One mark to all candidates	51. d	81. b	
22.b	52. d	82. b	
23.c	53. a	83. b	
24.b	54. c	84. b	
25. d	55. b	85. d	
26. d	56. a	86. d	
27. a	57. c	87. c	
28. d	58. b	88. d	
29. c	59. a	89. b	
30. c	60. b	90. b	

(To be written by the candidate)

BOOKLET NO. : N^o 012104

ROLL NO. (IN FIGURES) _____

ROLL NO. (IN WORDS) _____

Name of the Candidate : _____

Father's Name : _____

Centre of Examination : _____

Total No. of Questions : 100

Total No. of Pages : 22

**B.Sc. (NURSING) DEGREE COURSE
ENTRANCE TEST, 2021
Code No. 2103**

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 Ball Pen only** to darken the appropriate circle /oval in the OMR Answer Sheet. No sophisticated pens are allowed.
- (iii) Darken one circle/ovel 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.
- (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/oval properly.
- (viii) **Each question carries One Mark.**
- (ix) **There will be No Negative Marking.**
- (x) Use of calculator is not allowed.
- (xi) Rough work is to be done on the sheet(s) at the end.
- (xii) Mobile phones (even on switch-off mode) and such other electronic devices are not allowed inside the examination hall.
- (xiii) No over-writing, cutting, erasing or use of white fluid is allowed.
- (xiv) **THE QUESTION PAPER-BOOKLET WILL BE RETAINED BY THE CANDIDATE AFTER THE ENTRANCE TEST IS OVER.**
- (xvi) Question No. 1 to 25 Biology; 26 to 50 Chemistry; 51 to 75 Physics; 76 to 90 English; 91 to 100 General Knowledge/Current Affairs.

SEAL

1. Earthworm has
 - (a) Two eyes
 - (b) Many eyes
 - (c) No eyes
 - (d) One eye

2. A chordate character is
 - (a) gills
 - (b) spiracles
 - (c) postanal tail
 - (d) chitinous exoskeleton

3. Lymphoid tissue is found in
 - (a) lymph nodes
 - (b) thymus
 - (c) tonsils
 - (d) all of these

4. Tendons connect
 - (a) nerve to muscle
 - (b) muscle to muscle
 - (c) bone to bone
 - (d) bone to muscles

5. Mouth parts of cockroach are suited for
 - (a) piercing
 - (b) absorbing
 - (c) biting and chewing
 - (d) drinking

6. Which is NOT found in prokaryotic cell
 - (a) Plasma membrane
 - (b) Nuclear membrane
 - (c) Cell wall
 - (d) Ribosomes

7. How many types of cell division occur in our body?
 - (a) 2
 - (b) 4
 - (c) 3
 - (d) 1

8. After surgical removal of infected gall bladder, the person should be careful in intake of
 - (a) Fat
 - (b) Sugar
 - (c) Starch
 - (d) Protein

9. The net energy yield from aerobic respiration in eukaryotic cells is
(a) 10 ATP (c) 36 ATP
(b) 30 ATP (d) 38 ATP
10. One hemoglobin carry how many molecule of oxygen
(a) 4 (c) 6
(b) 2 (d) 8
11. Which of the following vitamins is used to prevent bleeding?
(a) Vitamin A (c) Vitamin B₁₂
(b) Vitamin C (d) Vitamin K
12. Which of the following pairs is incorrect?
(a) Uricotelic-Birds (c) Ammoniotelic -Tadpole
(b) Ureotelic-Insects (d) Ureotelic-Elephant
13. Which of the following is removed from the filtrate at loop of Henle?
(a) Amino acids (c) Water
(b) Hormones (d) Glucose
14. In human eye, the blind spot contains
(a) Rods (c) Both rods and cones
(b) Cones (d) Neither rods nor cones
15. AIDS is widely diagnosed by
(a) Widal test (c) PCR
(b) ELISA (d) Chromatography
16. National Botanical Institute is located in
(a) Mumbai (c) Lucknow
(b) Kolkata (d) Chennai

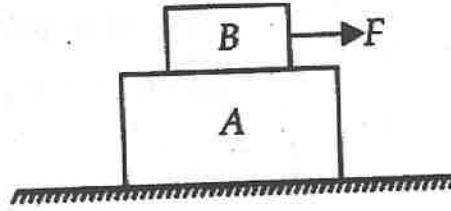
24. Leaves become fleshy to store food in:
- (a) Calotropis, Guava (c) Turnip, Carrot
(b) Onion, Garlic (d) Colocasia, Zaminkand
25. 'Comma' shaped bacteria are known as
- (a) coccus (c) spirillum
(b) spiral (d) vibrio
26. The largest oxidation number exhibited by an element depends on its outer electronic configuration. With which of the following outer electronic configuration the element will exhibit the largest oxidation number.
- (a) $3d^1 4s^2$ (c) $3d^5 4s^1$
(b) $3d^3 4s^2$ d. $3d^5 4s^2$
27. Units of rate constant of first and zero order reactions in terms of molarity M unit are respectively
- (a) sec^{-1} , M sec^{-1} (c) M sec^{-1} , sec^{-1}
(b) sec^{-1} , M (d) M, sec^{-1}
28. Fool's gold is:
- (a) FeO (c) CuFeS_2
(b) Fe_3O_4 (d) FeS_2
29. Separation of colloidal particles from those of molecular dimension with electricity is known as:
- (a) Electrolysis (c) Electrodialysis
(b) Electrophoresis (d) None of these
30. First ionization enthalpy of Al is lower than that of Mg. This is because
- (a) The size of Al is bigger than Mg
(b) Ionisation enthalpy decreases in a period from left to right
(c) It is easier to remove electron from unpaired $3p^1$ than from paired $3s^2$
(d) Aluminium is a passive metal while magnesium is active

31. In a polar molecule, the ionic charge is 4.8×10^{-10} esu. If the interionic distance is 1 Å unit, then the dipole moment is:
- (a) 0.48 debye (c) 4.8 debye
(b) 4.18 debye (d) 41.8 debye
32. The boiling point of methanol is greater than methyl thiol because
- (a) There is intramolecular hydrogen bonding in methanol and intermolecular hydrogen bonding in methyl thiol.
(b) There is intermolecular hydrogen bonding in methanol and no hydrogen bonding in methyl thiol.
(c) There is no hydrogen bonding in methanol and intermolecular hydrogen bonding in methyl thiol.
(d) There is no hydrogen bonding in methanol and intramolecular hydrogen bonding in methyl thiol.
33. On heating sodium metal in dry ammonia, the compound formed is:
- (a) Sodium hydride (c) Sodium nitride
(b) Sodium azide (d) Sodium amide
34. Which of the following solutes will produce temporary hardness in water ?
- (a) $MgCl_2$ (c) $Mg(HCO_3)_2$
(b) $NaCl$ (d) $NaHCO_3$
35. What is borax bead?
- (a) $Na_2B_4O_7 \cdot 10H_2O$ (c) $NaBO_2 + B_2O_3$
(b) $Na_2B_4O_7$ (d) B_2O_3
36. Which of the following is an industrial fuel?
- (a) Water gas ($CO + H_2$) (c) Coal gas ($CO + H_2 + CH_4 + CO_2$)
(b) Producer gas ($CO + N_2$) (d) All of these
37. Which of the following compound is commonly known as inorganic benzene?
- (a) B_2H_6 (c) $C_3N_3H_3$
(b) C_5H_5B (d) $B_3N_3H_6$

38. The hybridization of Xe in XeF_2 is:
- (a) sp^3 (c) sp^3d
(b) sp^2 (d) sp^2d
39. The metals present in insulin, haemoglobin and vitamin B_{12} are respectively:
- (a) Zn, Hg, Cr (c) Mg, Fe, Co
(b) Co, Fe, Zn (d) Zn, Fe, Co
40. The IUPAC name of $[\text{Ni}(\text{NH}_3)_4][\text{NiCl}_4]$ is:
- (a) Tetrachloronickel (II) - tetraamminenickel (II)
(b) Tetraamminenickel (II) – Tetrachloronickel (II)
(c) Tetraamminenickel (II) – Tetrachloronickelate (II)
(d) Tetrachloronickel (II) – Tetraamminenickelate (II)
41. The brown ring complex compound is formulated as $[\text{Fe}(\text{H}_2\text{O})_5\text{NO}]\text{SO}_4$. The oxidation state of Fe is:
- (a) +1 (c) +3
(b) +2 (d) 0.
42. $\text{S}_{\text{N}}1$ reaction is favoured by
- (a) Non – polar solvents
(b) More no. of alkyl group on the carbon atom attached to the halogen atom
(c) Small groups on the carbon attached to the halogen atom
(d) None of above
43. Which of the following is not true about glucose
- (a) It contains five hydroxyl groups (c) It is aldopentose
(b) It is a reducing sugar (d) It is aldohexose
44. Role of Gypsum in cement is
- (a) It decreases the rate of setting
(b) It increases the rate of setting
(c) To provide water molecules for hydration process
(d) To help to remove water molecules

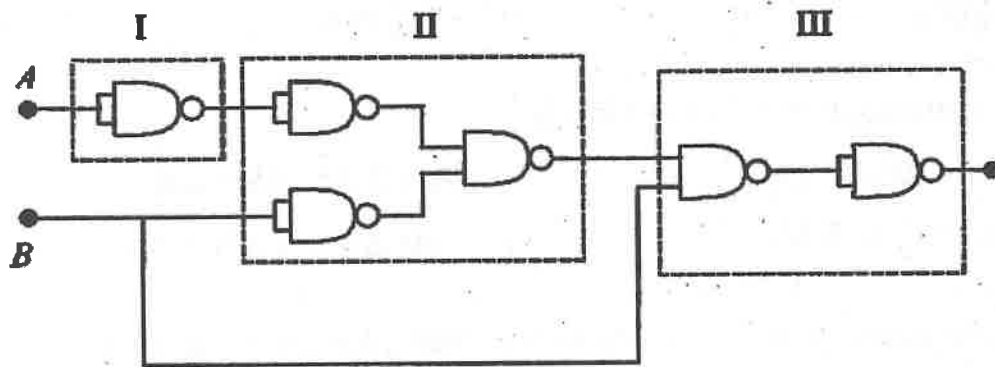
45. Which of the following compounds does not exist
- (a) Xe_2 (c) N_2
 (b) C_2 (d) O_2
46. Isotonic solutions have same
- (a) Osmotic pressures (c) Boiling points
 (b) Freezing point (d) Different Osmotic Pressures
47. Chloroform reacts with air and sunlight to give
- (a) COCl_2 (c) CH_2Cl_2
 (b) CCl_4 (d) Cl_2
48. A black sulphide when reacts with Ozone becomes white, the white is-
- (a) BaSO_4 (c) FeSO_4
 (b) ZnSO_4 (d) PbSO_4
49. The relation between ΔG and ΔH is
- (a) $\Delta H = \Delta G - T \Delta S$ (c) $T \Delta S - \Delta S = \Delta H$
 (b) $\Delta G = \Delta H - T \Delta S$ (d) $\Delta H = T \Delta G + \Delta S$
50. Volume occupied by one molecule of water (density = 1 g/cm^3) is-
- (a) $3 \times 10^{-23} \text{ cm}^3$ (c) $9 \times 10^{-23} \text{ cm}^3$
 (b) $5.5 \times 10^{-23} \text{ cm}^3$ (d) $6.023 \times 10^{-23} \text{ cm}^3$
51. If the dimension of a physical quantity is given by $M^a L^b T^c$, then the physical quantity will be
- (a) velocity if $a = 1, b = 0, c = -1$ (c) force if $a = 0, b = -1, c = -2$
 (b) acceleration if $a = 1, b = 1, c = -2$ (d) pressure if $a = 1, b = -1, c = -2$
52. An automobile travelling with a speed of 60 km/h , can brake to stop within a distance of 20 m . If the car is going twice as fast, i.e. 120 km/h , the stopping distance will be
- (a) 20 m (c) 60 m
 (b) 40 m (d) 80 m

53. Block A of mass 35kg is resting on a frictionless floor. Another block B of mass 7kg is resting on it as shown in fig. The coefficient of static friction between the blocks is 0.5, while coefficient of kinetic friction is 0.4. If a force of 100N is applied to block B, acceleration of block A will be
(Take $g = 10 \text{ ms}^{-2}$)



- (a) 0.8 ms^{-2} (c) 0.4 ms^{-2}
(b) 2.4 ms^{-2} (d) 4.4 ms^{-2}

54. Identify the gate in box I.



- (a) AND (c) NOT
(b) NOR (d) XOR
55. Two trains A and B are running in the same direction on parallel rails such that A is faster than B. Packets of equal weight are transferred between them. What will happen due to this?
- (a) A will be accelerated but B will be retarded
(b) B will be accelerated but A will be retarded
(c) There will be no change in A but B will be accelerated
(d) There will be no change in B, but A will be accelerated

56. A wheel is rotating at 900 rpm about its axis. When power is cut off it comes to rest in 1min. The angular retardation in rad/s^2 is

(a) $\frac{\pi}{2}$

(c) $\frac{\pi}{6}$

(b) $\frac{\pi}{4}$

(d) $\frac{\pi}{8}$

57. If an artificial satellite is moving in a circular orbit around the earth with a speed equal to half the magnitude of the escape velocity from the earth, the height of the satellite above the surface of the earth is
(where R = Radius of the earth)

(a) $2R$

(c) R

(b) $\frac{R}{2}$

(d) $\frac{R}{4}$

58. The ground state energy of hydrogen atom is -13.6eV . The kinetic and potential energies of the electron in this state respectively are?

(a) 13.6eV , -13.6eV

(c) 72.2eV , -13.6eV

(b) 13.6eV , -27.2eV

(d) 27.2eV , -27.2eV

59. What is the minimum thickness of a thin film required for constructive interference in the reflected light from it, if the refractive index of the film = 1.5, wavelength of the light incident on the film = 600nm ?

(a) 100 nm

(c) 50 nm

(b) 300 nm

(d) 200 nm

60. A metallic rod 1 cm long and 1 sq cm in cross-section is heated to $t^\circ\text{C}$. If the linear expansion is α per degree centigrade and Y is the Young's modulus, the force required to prevent the rod from expanding is

(a) $Y\alpha t$

(c) $\frac{Y\alpha t}{1-\alpha t}$

(b) $\frac{Y\alpha t}{1+\alpha t}$

(d) None

87. A group of lions is called:
- (a) A pack (c) A pride
(b) A flock (d) A gaggle
88. One who is fit to be chosen or selected is called:
- (a) Legible (c) Ineligible
(b) Illegible (d) Eligible
89. What is the meaning of idiom "Birds of a feather flock together"?
- (a) Birds having similar feathers are seen flying together
(b) People with the same tastes and interests will be found together
(c) The same type of birds stays together
(d) The feathers of birds are usually found at the same place
90. Which of the given words is an adjective?
- (a) Runs (c) Has
(b) Handsome (d) Ram
91. The oath of office is conducted to the president by:
- (a) The speaker of Lok Sabha (c) The Vice-President of India
(b) The Chief Justice of India (d) The Prime Minister of India
92. The number of spokes in the CHAKRA of Indian National Flag is:
- (a) 20 (c) 24
(b) 33 (d) 40
93. Which of the following rivers originate out of India?
- (a) Brahmaputra (c) Ravi
(b) Beas (d) Jhelum
94. Which of the following gases is not known as green-house gas:
- (a) Methane (c) Carbon di-oxide
(b) Nitrous Oxide (d) Hydrogen

95. Which of the following cities is famous for Dussehra Celebrations?
- (a) Kangra (c) Keylong
(b) Mandi (d) Kullu
96. Who is known as “the Iron Man”.
- (a) Jawahar Lal Nehru (c) Mahatma Gandhi
(b) Sardar Vallabhai Patel (d) Dr. Rajendra Prasad
97. Covishield vaccine is manufactured by:
- (a) Serum Institute of India (c) Jhonson & Jhonson Pharma
(b) Bharat Biotech (d) Pfizer
98. Which of the following methods is NOT successful in preventing the spread of Covid-19:
- (a) Vaccine
(b) Social distancing
(c) Triple layer Mask
(d) Prophylactic use of paracetamol tablets
99. Who won Gold Medal for India in Javelin through in Japan Olympics 2021?
- (a) Neeraj Chopra (c) Bajrang Punia
(b) Meerabai Chanu (d) Babita Phogat
100. Pandoh dam is situated on which of the following rivers in Himachal Pradesh?
- (a) Beas (c) Chenab
(b) Ravi (d) Satluj

SPACE FOR ROUGH WORK

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SEAL