HP B.Sc NURSING

QUESTION PAPER - 2023



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(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 **Total No. of Pages : 11**

B. Sc. Nursing Entrance Test-2023

Paper Code- 2221

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

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

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

(xiii) Question number 1-20 is Biology, 21-40 is Physics, 41-60 is Chemistry, 61-80 is Nursing Aptitude and 81-100 is English.

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Q.1 Ending of menstruation cycle is called
(A) Menarche
(B) Capacitation
(C) Menopause
(D) Fertilization

Q.2 Life span of Crow is
(A) 1—2 Week
(B) 100 years
(C) 15 years
(D) 60 years

Q.3 Pollen grains represent the
(A) Egg
(B) Endosperm
(C) Zygote
(D) Male gametophytes

Q.4 Turner's Syndrome disorder is
(A) XO
(B) XXX
(C) XXY
(D) XY

Q.5 Recessive condition is shown as
(A) TT
(B) Tt
(C) tt
(D) None of these

Q.6 Double Helix model for DNA structure is given by
(A) Friedrich
(B) Mendel
(C) Watson & Crick
(D) Johnson

Q.7 Distance between two base pair in DNA is
(A) 0.24 nm
(B) 20 nm
(C) 0.34 nm
(D) 20.5 nm

Q.8 Theory of natural selection about evolution given by
(A) Charles Darwin
(B) Hugo de Vries
(C) Thomas
(D) Lamarck

Q.9 Causative Organism of AIDS is
(A) Virus
(B) Bacteria
(C) Protozoa
(D) Snack

Q.10 Green plants in ecosystem are
(A) Consumer
(B) Producers
(C) Herbivorous
(D) Heterotrophs

Q.11 Space between Cornea and Lens of eye is called
(A) Aqueous chamber
(B) Vitreous chamber
(C) Blind spot
(D) Fovea

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Q.12 Which one is not the part of Fore Brain
(A) Cerebrum
(B) Thalamus
(C) Hypothalamus
(D) Pons

Q.13 How many ribs pairs present in human rib cage
(A) 10 Pairs
(B) 12 Pairs
(C) 15 Pairs
(D) 11 Pairs

Q.14 Glomerular filtration rate in normal Human is
(A) 180 liters/day
(B) 150 liter/day
(C) 200l liters/day
(D) None of these

Q.15 Human Heart normally beats per minute.
(A) 70—72 time
(B) 85—90 time
(C) 90—95 time
(D) 55—60 time

Q.16 An adult human has number of permanent teeth
(A) 30
(B) 32
(C) 20
(D) 34

Q.17 Respiratory Quotient of Fats is
(A) One
(B) Less than one
(C) more than one
(D) Zero

Q.18 Law of Limiting Factors is given by
(A) Robert brown
(B) Mendel
(C) Blackmans
(D) Batson

Q.19 Transportation of food in plants by Phloem is
(A) Unidirectional
(B) Bi-directional
(C) Multidirectional
(D) None of these

Q.20 Largest Phylum of Animal Kingdom is
(A) Mollusca
(B) Annelida
(C) Arthropoda
(D) Porifera

Q.21 For a normal human eye distance of near point from the eye is
(A) 0.25 cms
(B) 25 cms
(C) 25 mtr
(D) None of these

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Q.22 The lens used for correcting myopia is
(A) Concave
(B) Convex
(C) Plano Convex
(D) None of these

Q.23 Soap bubble appears colored due to
(A) Scattering of light
(B) Refraction of light
(C) Interference of light
(D) Diffraction of light

Q.24 Clouds are generally white in colour due to
(A) Interference of light
(B) Scattering of light
(C) Total infernal reflection
(D) Dispersion of light

Q.25 Electromagnetic waves used for telecommunication are
(A) Ultraviolet rays
(B) Microwaves
(C) Visible rays
(D) Infra-red rays

Q.26 Heat radiation coming from the Sun is
(A) Ultraviolet rays
(B) Visible rays
(C) Infra-red rays
(D) None of these

Q.27 Which of the following is not transducer?
(A) Loudspeaker
(B) Amplifier
(C) Microphone
(D) None of these

Q.28 For TV transmission the frequency employed is normally
(A) 20 Hz to 20 MHz
(B) 30 MHz to 300 MHz
(C) 30 GHz to 300 GHz
(D) None of these

Q.29 Energy stored in a capacitor is in the form of
(A) Electric field
(B) Magnetic field
(C) Eclectic and magnetic field
(D) None of these

Q.30 SI unit of electric field intensity is
(A) Newton Per Coulomb
(B) Newton Per Inverse Coulomb
(C) Newton Per Coulomb Square
(D) Per Newton Square Coulomb

Q.31 Number of images of an object placed between the two mirrors at an angle of 90 degree
(A) 2
(B) 3
(C) 4
(D) 5

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Q.32 Name the top most layer of the earth's atmosphere
(A) Troposphere
(B) Mesosphere
(C) Ionosphere
(D) None of these

Q.33 SI unit of linear momentum is
(A) Kilogram meter per second square
(B) Kilogram square meter per second
(C) Kilogram meter per second
(D) Kilogram meter square per second

Q.34 A car moving with a speed of 50 m/s comes to rest in 200 mtr the retardation produced in the motion of car
(A) 0.625 m/sec sq.
(B) -6.25 m/sec sq.
(C) 62.5 m/sec sq.
(D) None of these

Q.35 When bus takes the turn the passenger falls away from the circular turn due to
(A) Inertia of direction
(B) Inertia of motion
(C) Inertia of rest
(D) None of these

Q.36 Speed of light in air is
(A) 3×10^{8} ms−1
(B) 3.5×10^{8} ms−1
(C) 3×10^{-8} ms−1
(D) None of these

Q.37 Physical Quantity which measure the inertia
(A) mass
(B) Velocity
(C) Displacement
(D) Acceleration

Q.38 Speed of sound in air is
(A) 330 m/s
(B) 280 m/s
(C) 331 m/s
(D) 431 m/s

Q.39 The formation of the rainbow is due to the phenomenon of
(A) Reflection
(B) Refraction
(C) Dispersion
(D) All of the above

Q.40 Red color is used for danger signal because
(A) High Frequency
(B) Highest Wave Length
(C) Lowest Wave Length
(D) None of these

Q41. Which one of the following drugs is used for the treatment of AIDS patients?
(A) Cisplatin
(B) AZT
(C) Taxol
(D) Tegamet

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Q42. Oxidation state of P in PO_4^{3-} and S in SO_4^{2-} are respectively

(A) +3, +6
(B) -3, +6
(C) +5, +3
(D) +5, +6

Q43. The electronic configuration of Cu^{2+} ion is

(A) [Ar], $3d^8$, $4s^1$
(B) [Ar], $3d^9$, $4s^0$
(C) [Ar], $3d^7$, $4s^2$
(D) [Ar], $3d^8$, $4s^0$

Q44. Hydrogen has three isotopes (A) (B) & (C), if number of neutrons in (A), (B) & (C) are respectively x, y and z then x + y + z equals to

(A) 4
(B) 3
(C) 2
(D) 1

Q45. pH of a saturated solution of $Ba(OH)_2$ is 12. The value of solubility product (K_{sp}) of $Ba(OH)_2$ is

(A) 3.3×10^{-7}
(B) 5.0×10^{-7}
(C) 4.0×10^{-6}
(D) 5.0×10^{-6}

Q46. The molecule that has minimum or no role in the formation of photochemical smog is

(A) NO
(B) $CH_2=0$
(C) CO_3
(D) N_2

Q47. What is D.D.T. among the following

(A) A fertilizer
(B) Biodegradable pollutant
(C) Non-biodegradable pollutant
(D) Greenhouse gas

Q48. The reaction in which $\Delta H > \Delta U$ is

(A) $N_2(g) + O_2(g) \longrightarrow 2NO(g)$
(B) $CaCO_3(s) \longrightarrow Ca\,O\,(S) + CO_2(g)$
(C) $N_2(g) + 3H_2(g) \longrightarrow 2NH_3(g)$
(D) $CH_4(g) + 2O_2(g) \longrightarrow CO_2(g) + 2H_2O(l)$

Q49. The metal that forms nitride reacting directly with N_2 of air is

(A) Li
(B) K
(C) Cs
(D) Rb

Q50. Paper chromatography is an example of

(A) Thin Layer Chromatography
(B) Adsorption chromatography
(C) Column Chromatography
(D) Partition chromatography

Q51. Vulcanisation makes rubber

(A) More elastic
(B) Soluble in inorganic solvent
(C) Crystalline
(D) None of these

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Q52. Match the medicine (Column I) with its use (column II)

Column I	Column II
i. Ofloxacin	(a) Remove excess acid in the stomach
ii. Veronal	(b) Treat stress or mental diseases
	(c) Kills the micro-organism
	(d) Lower body temperature

(A) (i)-(a), (ii) –(b)
(B) (i)-(a), (ii) –(d)
(C) (i)-(c), (ii) –(d)
(D) (i)-(c), (ii) –(b)

Q53. Match acids (column I) with their correct IUPAC names (column II)

Column I	Column II
(a) Phthalic acid	(i) Hexane-1,6-dioic acid
(b) Oxalic acid	(ii) Benzene-1, 2-dicarboxylic acid
(c) Succinic acid	(iii) Ethane-1,2-dioic acid
(d) Adipic acid	(iv) Butane-1,4-dioic acid

(A) (a)-(i), (b) –(iii), (c)-(ii), d-(iv)
(B) (a)-(ii), (b) –(iii), (c)-(iv), d-(i)
(C) (a)-(iv), (b) –(iii), (c)-(ii), d-(i)
(D) (a)-(iii), (b) –(ii), (c)-(iv), d-(i)

Q54. Which base is present in RNA but not in DNA
(A) Uracil
(B) Cytosine
(C) Guanine
(D) Thymine

Q55. Acid anhydride on reaction with primary amine give
(A) Amide
(B) Imide
(C) Sec. Amine
(D) Imine

Q56. Which of the following is most acidic
(A) Benzyl alcohol
(B) Cyclohexanol
(C) Phenol
(D) M-Chlorophenol

Q57. Which of the following reagent will not convert ethyl alcohol into ethyl chloride
(A) PCl_5
(B) NaCl
(C) $SO\ Cl_2$
(D) $HCl/Zn\ Cl_2$

Q58. The size of raw mango shrinks to a much smaller size, when kept in a concentrated salt solution, which one of the following process can explain this

(A) Dialysis
(B) Reverse osmosis
(C) Osmosis
(D) Diffusion

Q59. If molality of the dilute solution is doubled the value of molal depression constant (K_f) will be

(A) Halved
(B) Tripled
(C) Unchanged
(D) Doubled

Q60. The role of a catalyst is to change

(A) Gibbs energy of reaction
(B) Enthalpy of reaction
(C) Activation energy of reaction
(D) Equilibrium constant

Q61. The First case of Covid positive in India was reported in?

(A) Kerala
(B) Tamilnadu
(C) Gujarat
(D) Maharashtra

Q62. The ideal roller bandage application for body parts where the thickness varies, such as over the forearm, is

(A) Simple spiral
(B) Figure of eight
(C) Reverse spiral
(D) Divergent Spica

Q63. Vomiting center is located in

(A) Medulla oblongata.
(B) Cerebral cortex
(C) Thoracic spine
(D) Hypothalamus

Q64. A simple and cost-effective method for reducing the risk of hypostatic pneumonia in a bedridden patient is

(A) Antibiotics
(B) Nebulization
(C) Frequent change of positions
(D) Humidified oxygen

Q65. Which of the following cells of the body are in almost constant mitosis?

(A) Nerve cells
(B) Stomach cells
(C) Muscle cells
(D) Renal cells

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Q66. Which of the following people have the largest percentage of water in their bodies?
(A) Fat men
(B) Lean men
(C) Lean women
(D) Fat women

Q67. The exchange of gases between alveoli and their surrounding capillaries is called ……respiration.
(A) External
(B) Internal
(C) Intrinsic
(D) Both external and internal

Q68. Maximum amount of vitamin D is found in which among the following
(A) Liver
(B) Cheese
(C) Egg yolk
(D) Cod liver oil

Q69. 3D's (diarrhea, dementia, dermatitis) are the characteristic of which deficiency disorder?
(A) Thiamine
(B) Biotin
(C) Niacin
(D) Riboflavin

Q70. To institute appropriate isolation precautions, the nurse must first know the
(A) Organism's mode of transmission
(B) Organism's Gram-staining characteristics
(C) Organism's susceptibility to antibiotics
(D) Patient's susceptibility to the organism

Q71. ____is a licensed medical professional who provides hands-on care in different medical and community settings.
(A) Staff nurse
(B) Registered nurse
(C) Travel nurse
(D) OT nurse

Q72. Exchange of gases takes place in which of the following organ?
(A) Kidney
(B) Lungs
(C) Liver
(D) Heart

Q73. It is a transparent membrane that focuses the light that enters the eyes to the retina.
(A) Lens
(B) Sclera
(C) Cornea
(D) Pupils

Q74. Pineal gland is a small, pea-shaped gland in the brain, which produces a neurotransmitter responsible for circadian cycle
(A) Melatonin.
(B) Insulin
(C) Mineralocorticoids
(D) Thyroid

Q75. Term malena means
(A) Dark coloured stool, containing blood
(B) Pus in the urine
(C) Painful micturition
(D) Sugar in the urine

Q76. Collapsing pulse is also known as
(A) Bounding pulse
(B) Water-hammer pulse
(C) Pulse-alternos
(D) Bigeminal pulse

Q77. Which of the following is known to have a role in wound healing?
(A) Vitamin A
(B) Vitamin K
(C) Vitamin C
(D) Vitamin B complex

Q78. Which of the following is considered as the most important aspect of hand washing?
(A) Soap
(B) Water
(C) Friction
(D) Time

Q79. Which of the following is best treatment for an allergy?
(A) Live in a room free of dust.
(B) Use an electrostatic filter.
(C) Prevent the person from coming in contact with the sensitizing allergens.
(D) Use antihistamines

Q80. Patient with high temperature should be given
(A) Plenty of fluids
(B) Normal fluids
(C) Restricted fluids
(D) Regular diet

Q81. What is the synonym of 'Cancel'?
(A) Abolish
(B) Approve
(C) Allow
(D) Break

Q82. What is the synonym of 'Vigilant'?
(A) Aggressive
(B) Harmful
(C) Watchful
(D) Painful

Q83. What is the synonym of 'Hazardous'?
(A) Sweet
(B) Famous
(C) Helpful
(D) Dangerous

Q84. What is the antonym of 'Beautiful '?
(A) Ugly
(B) Handsome
(C) Wonderful
(D) Pretty

Q85. What is the antonym of 'Initiated'?
(A) Started
(B) Closed
(C) Confused
(D) Began

Q86. What is the antonym of 'Dirty '?
(A) Powerful
(B) Filthy
(C) Bad
(D) Clean

Q87. Find the correct spelt word.
(A) Affedevit
(B) Effadavit
(C) Afidevet
(D) Affidavit

Q88. Find the correct spelt word.
(A) Adventure
(B) Adaventure
(C) Adevanture
(D) Advantura

Q89. Find the correct spelt word.
(A) Leboratory
(B) Labaratory
(C) Labratary
(D) Laboratory

Q90. A person who does not believe in existence of God.
(A) Atheist
(B) Spiritual
(C) Priest
(D) Religious

Q91. A disease which spreads by contact.
(A) Dangerous
(B) Contagious
(C) Fatal
(D) Pandemic

Q92. Custom of having many wives.
(A) Misogamy
(B) Bigamy
(C) Polygamy
(D) Monogamy

Replace the bold portion with appropriate choice.

Q93. The man **to who I sold** my car was a cheat.
(A) to who I sell
(B) to whom I sold
(C) to whom I sell
(D) No correction required.

Q94. I need not offer any explanation. My behaviour **is speaking itself**.
(A) will speak itself
(B) speaks for itself
(C) has been speaking for itself.
(D) No correction required

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Q95. Why **did you not threw** the bag away?

(A) did you not throw
(B) did you not thrown
(C) had you not thrown
(D) no correction needed

Fill the blanks with most appropriate from the given choices.

Q96. The ..... of private limited companies is in the hands of its directors.

(A) Managers
(B) Administrators
(C) Management
(D) Society

Q97. The Christmas Tree was ..... with stars and light bulbs.

(A) decorated
(B) tied
(C) deprived
(D) decided

Q98. A wise person is one who learns from his .....

(A) lies
(B) bad manners
(C) books
(D) mistakes

Q99. Please, don't laugh ..... those beggars.

(A) For
(B) Against
(C) At
(D) From

Q100. Please, stop ..... so many mistakes.

(A) to make
(B) make
(C) making
(D) makes

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