

(To be filled by the candidate)

Booklet S. No. _____

3671

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.

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) Snake

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

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 internal 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

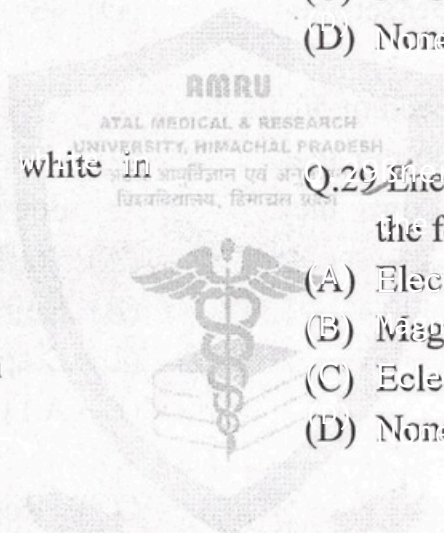
- (A) Electric field
- (B) Magnetic field
- (C) Electric and magnetic field
- (D) None of these

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



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) $3 \times 10^8 \text{ ms}^{-1}$
- (B) $3.5 \times 10^8 \text{ ms}^{-1}$
- (C) $3 \times 10^{-8} \text{ ms}^{-1}$
- (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

Q.41 Which one of the following drugs is used for the treatment of AIDS patients?

- (A) Cisplatin
- (B) AZT
- (C) Taxol
- (D) Tegamet

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) $[\text{Ar}], 3d^3, 4s^1$
- (B) $[\text{Ar}], 3d^9, 4s^0$
- (C) $[\text{Ar}], 3d^7, 4s^2$
- (D) $[\text{Ar}], 3d^3, 4s^0$

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 $\text{Ba}(\text{OH})_2$ is 12. The value of solubility product (K_{sp}) of $\text{Ba}(\text{OH})_2$ 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) $\text{CH}_2=\text{O}$
- (C) CO_2
- (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) $\text{N}_2(\text{g}) + \text{O}_2(\text{g}) \longrightarrow 2\text{NO}(\text{g})$
- (B) $\text{CaCO}_3(\text{s}) \longrightarrow \text{CaO}(\text{s}) + \text{CO}_2(\text{g})$
- (C) $\text{N}_2(\text{g}) + 3\text{H}_2(\text{g}) \longrightarrow 2\text{NH}_3(\text{g})$
- (D) $\text{CH}_4(\text{g}) + 2\text{O}_2(\text{g}) \longrightarrow \text{CO}_2(\text{g}) + 2\text{H}_2\text{O}(\text{l})$

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

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

Column I

i. Ofloxacin

ii. Veronal

Column II

(a) Remove excess acid in the stomach

(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

(a) Phthalic acid

(b) Oxalic acid

(c) Succinic acid

(d) Adipic acid

Column II

(i) Hexane-1,6-dioic acid

(ii) Benzene-1,2-dicarboxylic acid

(iii) Ethane-1,2-dioic 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. Amins

(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) SOCl_2

(D) HCl/ZnCl_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 calledrespiration.

- (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.

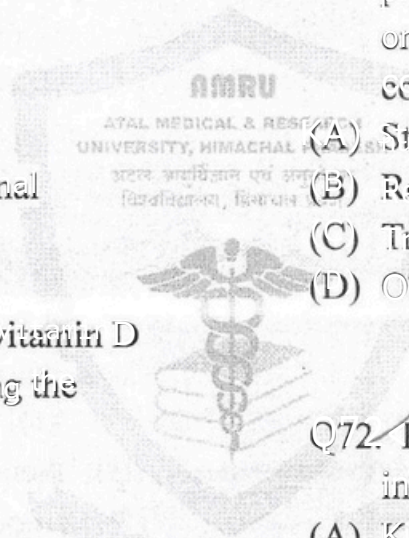
- (A) Staff nurse
- (B) Registered nurse
- (C) Travel nurse
- (D) OT nurse

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) Affedavit
- (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) Laboratory
- (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

Q95. Why **did you not** throw 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

B Sc Nursing Entrance 2023

Q. No.	Option	Q. No.	Option	Q. No.	Option	Q. No.	Option	Q. No.	Option
Biology		Physics		Chemistry		Nursing Aptitude		English	
1	C ✓	21	B ✓	41	B ✓	61	A ✓	81	A ✓
2	C ✓	22	A ✓	42	D ✓	62	C ✓	82	C ✓
3	D ✓	23	C ✓	43	B ✓	63	A ✓	83	D ✓
4	A ✓	24	B ✓	44	B ✓	64	C ✓	84	A ✓
5	C ✓	25	B ✓	45	B ✓	65	B ✓	85	B ✓
6	C ✓	26	C ✓	46	D ✓	66	B ✓	86	D ✓
7	C ✓	27	B ✓	47	C ✓	67	A ✓	87	D ✓
8	A ✓	28	B ✓	48	B ✓	68	D ✓	88	A ✓
9	A ✓	29	A ✓	49	A ✓	69	C ✓	89	D ✓
10	B ✓	30	A ✓	50	D ✓	70	A ✓	90	A ✓
11	A ✓	31	B ✓	51	A ✓	71	B ✓	91	B ✓
12	D ✓	32	D ✓	52	D ✓	72	B ✓	92	C ✓
13	B ✓	33	C ✓	53	B ✓	73	A ✓	93	B ✓
14	A ✓	34	B ✓	54	A ✓	74	A ✓	94	B ✓
15	A ✓	35	A ✓	55	A ✓	75	A ✓	95	A ✓
16	B ✓	36	A ✓	56	D ✓	76	B ✓	96	C ✓
17	B ✓	37	A ✓	57	B ✓	77	C ✓	97	A ✓
18	C ✓	38	C ✓	58	C ✓	78	C ✓	98	D ✓
19	B ✓	39	D ✓	59	C ✓	79	C ✓	99	C ✓
20	C ✓	40	B ✓	60	C ✓	80	A ✓	100	C ✓