

Monika's Nursing Academy Hamirpur

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BSC NURSING ENTRANCE 2021

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 cell is :-

- A. 10 ATP
- B. 30 ATP
- C. 36 ATP
- D. 38 ATP

10. One hemoglobin carry how many molecule of oxygen :-

- A. 4
- B. 2
- C. 6
- D. 8

11. Which of the following vitamins is used to prevent bleeding ?

- A. Vitamin A
- B. Vitamin C
- C. Vitamin b12
- D. Vitamin K

12. Which of the following pairs is incorrect ?



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- A. Uricotelic –Birds
- B. Ureotelic-Insects
- C. Ammoniotelic – Tadpole
- D. Ureotelic-Elephant

13. Which of the following is removed from the filtrate at loop of Henle ?

- A. Amino acids
- B. Hormones
- C. Water
- D. Glucose

14. In human eye, the blind spot contains :-

- A. Rods
- B. Cones
- C. Both rods and cones
- D. Neither rods nor cones

15. AIDS is widely diagnosed by :-

- A. Widal test
- B. ELISA
- C. PCR
- D. Chromatography

16. National Botanical Institute is located in :-

- A. Mumbai
- B. Kolkata
- C. Lucknow
- D. Chennai

17. Ozone saves the biosphere by absorbing the high energy radiation called :-

- A. X-rays
- B. Gamma rays
- C. Cosmic rays
- D. Infrared rays (IR)

18. Bacillus thuringiensis (Bt) strains have been used for designing novel.

- A. Biofertilizers
- B. Bio-metallurgical techniques
- C. Bio-mineralization processes
- D. Bio-insecticidal plants

19. First life form on earth was a :-

- A. Cyanobacterium
- B. Chemoheterotroph
- C. Autotroph
- D. Photoautotroph

20. The coconut water and the edible part of coconut are equivalent to :-

- A. Endosperm
- B. Endoscarp
- C. Mesocarp
- D. Embryo

21. Seedless fruit in banana is produced because of :-

- A. Asexual reproduction
- B. Parthenogenesis
- C. Triploid
- D. Cross pollination

22. Sweet potato is a modification of :-

- A. Stem
- B. Adventitious root
- C. Hypocotyl
- D. Flowering axis

23. Heartwood differs from sapwood in :-

- A. Presence of rays and fibers
- B. Absence of vessels and parenchyma
- C. Having dead and non-conducting elements



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D. Being susceptible to pests and pathogens

24. Leaves become fleshy to store food in :-

- A. Calotropis, Guava
- B. Onion, Garlic
- C. Turnip, carrot
- D. Colocasia, Zaminkand

25. 'Comma' shaped bacteria are known as:-

- A. Coccus
- B. Spiral
- C. Spirillum
- 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. $3d^14s^2$
- B. $3d^34s^2$
- C. $3d^54s^1$
- D. $3d^54s^2$

27. Units of rate constant of first and zero order reactions in terms of molarity M units are respectively :-

- A. $\text{Sec}^{-1}, M \text{ sec}^{-1}$
- B. Sec^{-1}, M
- C. $M \text{ sec}^{-1}, \text{sec}^{-1}$
- D. M, sec^{-1}

28. Fool's gold is :-

- A. FeO

- B. Fe_3O_4
- C. CuFeS_2
- D. FeS_2

29. Separation of colloidal particles from those of molecular dimension with electricity is known as :-

- A. Electrolysis
- B. Electrophoresis
- C. Electro dialysis
- 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 inter ionic distance is Angstrom unit, then the dipole moment is :-

- A. 0.48 debye
- B. 4.18 debye
- C. 4.8 debye
- D. 41.8 debye

32. The boiling point of methanol is greater than methyl thiol because :-

- A. There is intra molecular hydrogen bonding in methanol and inter molecular hydrogen bonding in methyl thiol



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- 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 intra molecular hydrogen bonding in methyl thiol

33. On heating sodium metal in dry ammonia, the compound formed is :-

- A. Sodium hydride
- B. Sodium azide
- C. Sodium nitride
- D. Sodium amide

34. Which of the following solutes will produce temporary hardness in water ?

- A. MgCl_2
- B. NaCl
- C. $\text{Mg}(\text{HCO}_3)_2$
- D. NaHCO_3

35. What is borax bread ?

- A. $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$
- B. $\text{Na}_2\text{B}_4\text{O}_7$
- C. $\text{NaBO}_2 + \text{B}_2\text{O}_3$
- D. B_2O_3

36. Which of the following is an industrial fuel ?

- A. Water gas ($\text{CO} + \text{H}_2$)
- B. Producer gas ($\text{CO} + \text{N}_2$)
- C. Coal gas ($\text{CO} + \text{H}_2 + \text{CH}_4 + \text{CO}_2$)
- D. All of these

37. Which of the following compound is commonly known as inorganic benzene ?

- A. B_2H_6
- B. $\text{C}_5\text{H}_5\text{B}$
- C. $\text{C}_3\text{N}_3\text{H}_3$
- D. $\text{B}_3\text{N}_3\text{H}_6$

38. The hybridization of Xe in XeF_2 is :-

- A. sp^3
- B. sp^2
- C. sp^3d
- D. sp^2d

39. The metals present in insulin, haemoglobin and vitamin B12 are respectively :-

- A. Zn, Hg, Cr
- B. Co, Fe, Zn
- C. Mg, Fe, Co
- 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
- B. +2
- C. +3
- D. 0



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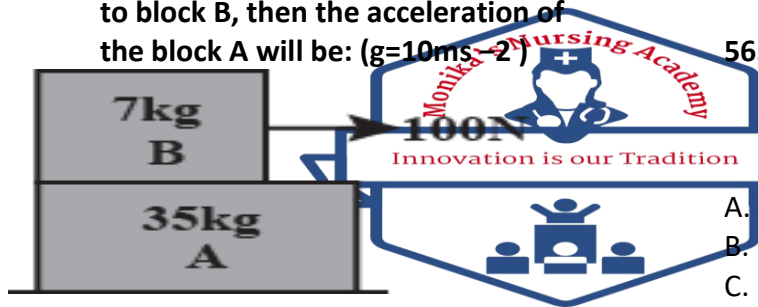
- 42. S_NI reaction is favoured by :-**
- A. Non- polar solvents
 - B. More no. of alkyl group on the carbon atom attached to the halogen atom
 - C. Small groups on the carbon attached to the halogen atom
 - D. None of above
- 43. Which of the following is not true about glucose :-**
- A. It contains five hydroxyl groups
 - B. It is a reducing sugar
 - C. It is aldopentose
 - D. It is aldohexose
- 44. Role of Gypsum in cement is :-**
- A. It decreases the rate of setting
 - B. It increase 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. BF₃
 - B. TCl
 - C. TiCl₃
 - D. Both b and c
- 46. Isotonic solutions have same :-**
- A. Osmotic pressures
 - B. Freezing point
 - C. Boiling points
 - D. Different Osmotic pressures
- 47. Chloroform reacts with air and sunlight to give :-**
- A. COCl₂
 - B. CCl₄
 - C. CH₂Cl₂
 - D. Cl₂
- 48. A black sulphide when reacts with Ozone Becomes white, the white is :-**
- A. BaSO₄
 - B. ZnSO₄
 - C. FeSO₄
 - D. PbSO₄
- 49. The relation between ΔG and ΔH is :-**
- A. ΔH=ΔG-TΔS
 - B. ΔG=ΔH-TΔS
 - C. T ΔS-ΔS=ΔH
 - D. ΔH=T ΔG +ΔS
- 50. Volume occupied by one molecule of water (density = 1g/cm³) is :-**
- A. 3x10⁻²³cm³
 - B. 5.5 x 10⁻²³ cm³
 - C. 9x10⁻²³ cm³
 - D. 6.023 x 10⁻²³ cm³
- 51. If the dimension of a physical quantity is given by M^aL^bT^c, then the physical quantity will be :-**
- A. Velocity if a=1, b=0, c=-1
 - B. Acceleration if a=1, b=1, c=-2
 - C. Force if a=0, 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

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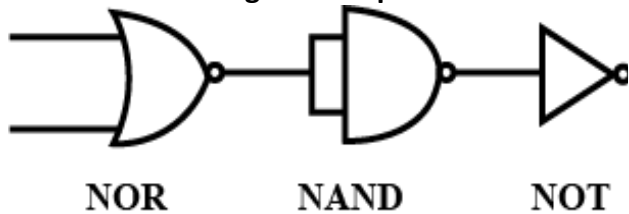
- B. 40 m
- C. 60 m
- D. 80 m

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



- A. 0.8 m/s^2
- B. 0.4 m/s^2
- C. 2.4 m/s^2
- D. 4.4 m/s^2

54. The circuit given is equivalent to :-



- A. NOR
- B. OR
- C. AND
- D. NAND

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 1 min. The angular retardation in rad/s^2 is :-

- A. $\pi/2$
- B. $\pi/4$
- C. $\pi/6$
- D. $\pi/8$

57. If an artificial 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
- B. R/2
- C. R
- D. R/4

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

- A. 13.6 eV, -13.6 eV
- B. 13.6 eV, -27.2 eV

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C. 72.2 eV, -13.6 eV

D. 27.2 eV, -27.2 eV

D. 273 degree C

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 = 600 nm ?

A. 100 nm

B. 300 nm

C. 50 nm

D. 200 nm

63. Time period of simple pendulum inside the satellite orbiting earth is :

A. Zero

B. 2T

C. T

D. Infinite

64. The force per unit Charge is known as :-

A. Electric current

B. Electric potential

C. Electric field

D. Electric space

60. A metallic rod 1 cm long and 1 sq. cm in cross – section is heated to 1 degree 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 at

B. Y at / 1 + αt

C. Y at / 1 - αt

D. None

65. Two charges 20 C & -20C are separated from each other by a distance of 2 cm.

Then find the magnitude of electric dipole moment :-

A. 0

B. 0.2 cm

C. 0.4 cm

D. 0.8 cm

61. A Machine gun fires 60 bullets per minute with a velocity of 700 m/s. if each bullet has a mass of 50 g. The power developed by gun is :-

A. 250 W

B. 50 W

C. 12250 W

D. 2250 W

66. Drift velocity of electron is :-

A. Larger than speed of light

B. Almost equal to speed of light

C. Equal to speed of light

D. Very small in comparison to speed of light

62. Convert 25 degree C to Kelvin Scale :-

A. 298 K

B. 273 K

C. 298 Degree C

67. A current 20 μA is flowing through a wire for 30 sec. The charge transferred through the wire is :-

A. $2 \times 10^{-4} C$

B. $4 \times 10^{-4} C$

C. $6 \times 10^{-4} C$

D. $8 \times 10^{-9} C$

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68. Three resistors of value 9 ohm, 4 ohm & 12 ohm are connected in parallel. What will be the equivalent resistance of the circuits ?

- A. 0.8
- B. 2.2
- C. 1.9
- D. 2.6

69. When a red colour paper is seen in the yellow light, it will appear as :-

- A. Red
- B. Yellow
- C. White
- D. Black

70. Which of the following statements is true regarding the photo-electric experiment ?

- A. The stopping potential increase with increase in the intensity of incident light
- B. The photo current increases with the intensity of light
- C. The photocurrent increases with the increase in frequency
- D. All of these

71. Magnetism at the centre of bar magnet is..... :-

- A. Minimum
- B. Zero
- C. Negative
- D. Maximum

72. In Magnetic compass a magnetic needle which always directs :-

- A. North-South
- B. North-West
- C. East-South

D. East-West

73. Energy of photons depend on :-

- A. Frequency of photons
- B. Intensity of photons
- C. Both frequency & intensity of photons
- D. None of these

74. Rayleigh Scattering is proportional to :-

- A. $1/\lambda^4$
- B. $1/\lambda^3$
- C. $1/\lambda^2$
- D. $1/\lambda$

75. Time period of a pendulum in a freely falling lift is :-

- A. 84.6 min
- B. Infinity
- C. 0
- D. 2 sec

76. Choose proper one-Word substitute for the following sentence: one who abandons his religious faith :-

- A. Apostate
- B. Prostate
- C. Profane
- D. Agnostic

77. Person who does not believe in the existence of God :-

- A. Theist
- B. Heretic
- C. Atheist
- D. Fanatic

78. Fill in the blanks :- The Mekong is also home.....the world' largest catfish :-



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- A. For
- B. In
- C. To
- D. Within

79. I watched him.....

- A. Fell
- B. Fall
- C. To falling
- D. To fell

80. you like some water ?

- A. Do
- B. Would
- C. shall
- D. Can

81. She her daughter to school before she goes to work:-

- A. Takes
- B. Taking
- C. Has taken
- D. Took

82. Use appropriate in the following sentence:-He is..... M.A.

- A. A
- B. An
- C. The
- D. None of these

83. Can you speak.....Spanish ?

- A. A
- B. An
- C. The
- D. No article

84. I saw one eyed person.

- A. A
- B. An

- C. The
- D. No article

85. Direction – In the following questions, a sentence has been given in Active/Passive voice. Out of the four alternative suggested, select the one which best express the same sentence in Passive/Active voice:- Rahul will pass the passage

- A. The message will passed by Rahul
- B. The message would be passed by Rahul
- C. The message will pass by Rahul
- D. The message will be passed by Rahul

86. His comment hurt me deeply :-

- A. I was hurt deeply by its comment
- B. I could be hurt deeply by his comment
- C. His comment was hurtful
- D. I should not be hurt by his comment

87. A group of lions is called :-

- A. A pack
- B. A flock
- C. A pride
- D. A gaggle

88. One who is fit to be chosen or selected is called :-

- A. Legible
- B. Ineligible
- C. 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



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- 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
- B. Handsome
- C. Has
- D. Ram

91. The oath of office is compound to the president by :-

- A. The speaker of Lok Sabha
- B. The Chief Justice of India
- C. The Vice-President of India
- D. The Prime Minister of India

92. The Number of spokes in the CHAKRA of Indian National Flag is :-

- A. 20
- B. 33
- C. 24
- D. 40

93 Which of the following rivers originate out of India ?

- A. Brahmaputra
- B. Beas
- C. Ravi
- D. Jhelum

94. Which of the following gases is not known as green-house gas :-

- A. Methane
- B. Nitrous Oxide
- C. Carbon di-oxide

- D. Hydrogen

95. Which of the following cities is famous for Dussehra celebrations ?

- A. Kangra
- B. Mandi
- C. Keylong
- D. Kullu

96. Who is known as "the Iron Man".

- A. Jawahar Lal Nehru
- B. Sardar Vallabhai Patel
- C. Mahatma Gandhi
- D. Dr. Rajendra Prasad

97. Covishield vaccine is manufactured by

- A. Serum Institute Of India
- B. Bharat biotech
- C. Jhonson & Jhonson Pharma
- 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
- B. Meerabai Chanu
- C. Bajrang Punia
- D. Babita Phogat

100. Pandoh dam is situated on which of the following rivers in Himachal Pradesh ?

- A. Beas
- B. Ravi
- C. Chenab
- D. Satluj



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Answer Key:-

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

