

Monika's Nursing Academy Hamirpur

"Innovation is our Tradition"

B.SC Nursing Entrance(2019)

Q.1 The unique features of bryophytes compared to other green plant group is that:

- (a) They produce spores
- (b) They lack vascular tissues
- (c) They lack roots
- (d) Their sporophyte is attached to the gametophyte

Q.2 The branch of Botany that deals with the forms of the plant is known as:

- (a) Physiology
- (b) Anatomy
- (c) Morphology
- (d) Cytology

Q.3 Filiform apparatus is the characteristic of:

- (a) Egg
- (b) Synergids
- (c) Antipodal cells
- (d) Anther wall

Q.4 Which form of coconut provides the coir of commerce?

- (a) Edicrap
- (b) Mesocrap
- (c) Endocrap
- (d) Seed coat

Q.5 Xanthophylls differ from carotens in having:

- (a) Mg
- (b) Cl
- (c) O₂
- (d) H₂

Q.6 Angiosperms having dominated land flora primarily because of their

- (a) Nature of self-Pollination
- (b) Power of adaptability in diverse habitats
- (c) Property of large number of seeds

(d) Domestication by man

Q.7 Manganese is required for

- (a) Chlorophyll synthesis
- (b) Nucleic acid synthesis
- (c) Plant cell formation
- (d) Photosynthesis of water

Q.8 Megasporophyll is the term used in gymnosperms to denote:

- (a) Carpels
- (b) Stamens
- (c) Leaves
- (d) Female cone

Q.9 Syngenesious anthers and epipetalous stamens are found in:

- (a) Liliaceae
- (b) Malvaceae
- (c) Solanaceae
- (d) Compositae

Q.10 In tissue culture, medium, the embryoids formed pollen grains is due to:

- (a) Organogenesis
- (b) Double fertilization
- (c) Cellular totipotency
- (d) Test-tube culture

Q.11 Biodiesel is mostly produced by:

- (a) Liliaceae
- (b) Malvaceae
- (c) Myrtaceae
- (d) Euphorbiaceae

Q.12 Homologous organs insicate the

- (a) Convergent evolution
- (b) Parallel evolution
- (c) Common descendent
- (d) Natural selection

Q.13 Vascular cryptogams are:

- (a) Bryophytes
- (b) Spermatophytes
- (c) Pteridophytes
- (d) Fungi

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Q.14 Assigning different names to each species is called:

- (a) Naming
- (b) Specifications
- (c) Nomenclature
- (d) Systematics

Q.15 Cyanobacteria and Bacteria fall under kingdom:

- (a) Protista
- (b) Monera
- (c) Animalia
- (d) Plantae

Q.16 Nucleoplasm contains genetic material named as:

- (a) Gene
- (b) Cell material
- (c) Hereditary material
- (d) Chromatin material

Q.17 Mitochondria is also termed as:

- (a) Power house of the cell
- (b) Microbodies
- (c) Cell bodies
- (d) Storing bodies

Q.18 The intermediate host of Taenia Solium is:

- (a) Sheep
- (b) Pig
- (c) Human
- (d) Goat

Q.19 Molluscs have calcareous shell that provides protection to visceral organs, is secreted by:

- (a) Coelom
- (b) Inner body
- (c) Mantle
- (d) Ectoderm

Q.20 In cytoplasm, synthesis of proteins at ribosomes is called:

- (a) Translation
- (b) Transcription

- (c) Replication
- (d) Reproduction

Q.21 Lining of duodenum releases energy called:

- (a) Trypsin
- (b) Trysinogen
- (c) Erepsin
- (d) Sterol esterase

Q.22 Creatinism results due to:

- (a) Excess of adrenalin
- (b) Lesser thyroxin
- (c) Excess of insulin
- (d) Lesser kertain

Q.23 Colour blind person cannot distinguish between:

- (a) Black and white
- (b) Purple and Grey
- (c) Red and Green
- (d) Pink and Brown

Q.24 In which organ of the human body are lymphocytes formed?

- (a) Liver
- (b) Bone marrow
- (c) Spleen
- (d) Pancreas

Q.25 'ELISA' test is performed to test:

- (a) Diabetes
- (b) Tuberculosis
- (c) Syphilis
- (d) AIDS

Q.26 The principal quantum number represents the:

- (a) Distance of an electron from the nucleus
- (b) Shape of the orbital having an electron
- (c) Number of electrons shifted to higher energy levels
- (d) Number of subshells in a shell

Q.27 Chromium has the electronic configuration of $4S^13d^5$ rather than $4S^23d^4$ because:

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- (a) 4s and 3d have the same energy
(b) 4s and a higher energy than 3d
(c) $4s^1$ is more stable than $4s^2$
(d) $4s^1 3d^5$ half filled is more stable than $4s^2 3d^4$

Q.28 Electron occupies the available orbital singly before pairing in any one orbital occurs, it is :

- (a) Pauli's exclusion principle
(b) Hund's rule
(c) Heisenberg principle
(d) Prout's hypothesis

Q.29 The shape H_3O^+ ion is:

- (a) Linear
(b) Angular
(c) Trigonal Planar
(d) Triangular pyramidal

Q.30 Ionic reactions are:

- (a) Fast
(b) Slow
(c) Very slow
(d) None of these

Q.31 Silicon carbide (SiC) is :

- (a) Ionic solid
(b) Molecular solid
(c) Covalent solid
(d) Metallic solid

Q.32 The ionization of hydrogen atom would give:

- (a) Hybrid ion
(b) Hydronium ion
(c) Proton
(d) Hydroxyl ion

Q.33 When rate of forward reaction becomes equal to backward reaction, this state is termed as:

- (a) Chemical equilibrium
(b) Reversible state
(c) Equilibrium
(d) All the above

Q.34 The active mass of a reactant is:

- (a) Its gram molecular weight
(b) Its equivalent weight
(c) Per litre number of moles
(d) None of the above

Q.35 The pH of a 10^{-10} M-NaOH solution is nearest to:

- (a) 10
(b) 7
(c) 4
(d) -10

Q.36 NaOH is a strong base because:

- (a) It gives OH^- ions
(b) It can be oxidised
(c) It can be easily ionized
(d) Both A and C

Q.37 pH of blood is maintained constant by mechanism of:

- (a) Common ion effect
(b) Buffer
(c) Solubility
(d) All of these

Q.38 Baeyer's reagent is:

- (a) Saturated $KMnO_4$ Solution
(b) Neutral $KMnO_4$ Solution
(c) Alkaline $KMnO_4$ Solution
(d) Acidic $KMnO_4$ Solution

Q.39 A spontaneous process is one in which the system suffers:

- (a) No energy change
(b) A lowering of free energy
(c) A lowering of entropy
(d) An increase in internal energy

Q.40 Oxidation state of oxygen in F_2O is:

- (a) +1
(b) +2
(c) -1
(d) -2

Q.41 Main constituent of marsh gas is:

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- (a) C_2H_2
- (b) CH_4
- (c) H_2S
- (d) CO

Q.42 When acetylene is passed into dilute sulphuric acid containing Hg^{2+} ions, the product formed is:

- (a) Acetone
- (b) Acetic acid
- (c) Acetaldehyde
- (d) formaldehyde

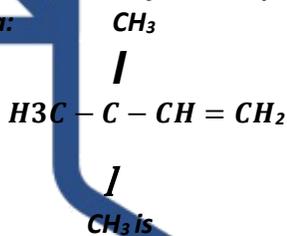
Q.43 Carbon-Carbon bond length is minimum in:

- (a) Ethane
- (b) Ethene
- (c) Ethyne
- (d) Benzene

Q.44 Which of the following gives a positive iodoform test?

- (a) 1-pentanol
- (b) 2-pentanone
- (c) 3-pentanone
- (d) Pentanol

Q.45 The IUPAC name of the compound having the formula:



- (a) 3,3,3-trimethyl-1-propene
- (b) 1,1,1-trimethyl-2-propene
- (c) 3,3-dimethyl-1-butene
- (d) 2,2-dimethyl-3-butene

Q.46 Germinated barley called malt is a source of which enzyme?

- (a) Zymase
- (b) Diastase
- (c) Maltase
- (d) Invertase

Q.47 Chloroform, when exposed to light and air gives:

- (a) Methyl chloride
- (b) Formic acid
- (c) Carbon tetrachloride
- (d) Phosgene

Q.48 Lower primary alcohols are more soluble in water because of:

- (a) Hydrogen bonding
- (b) Vander Wall's forces
- (c) Both A and B
- (d) Can't predict

Q.49 The following reaction $2HCHO + NaOH \rightarrow CH_3OH + HCOONa$ involves:

- (a) Oxidation of one molecule of HCHO and reduction of the other
- (b) Both molecules of HCHO get oxidised
- (c) Both molecules of HCHO get reduced
- (d) None of these

Q.50 Methylated spirit is:

- (a) Methanol
- (b) Methanol + Ethanol
- (c) Methanoic acid
- (d) Methanamide

Q.51 If momentum (p), area (A) and time (T) are taken to be fundamental quantities, then energy has the dimensional formula:

- (a) $[pA^{-1}T^1]$
- (b) $[p^2AT]$
- (c) $[pA^{-1/2}T]$
- (d) $[pA^{1/2}T^{-1}]$

Q.52 An athlete completes one round of a circular track of radius R in 40 sec. What will be his displacement at the end of 2 min. 20 sec?

- (a) Zero
- (b) 2R
- (c) $2\pi R$
- (d) $7\pi R$

Q.53 The angular speed of a flywheel making 120 revolutions/minute is:

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- (a) $2\pi \text{rad/sec}$
- (b) $4\pi^2 \text{rad/sec}$
- (c) $\pi \text{rad/sec}$
- (d) $4\pi \text{rad/sec}$

Q.54 A cold soft drink is kept on the balance. When the cap is opened the weight:

- (a) Increases
- (b) Decreases
- (c) First increases then decreases
- (d) remains same

Q.55 A shell of mass m moving with velocity ' v ' suddenly breaks into two pieces. The part having the mass $m/4$ remains stationary. The velocity of the other shell will be:

- (a) v
- (b) $2v$
- (c) $\frac{3}{4}v$
- (d) $\frac{4}{3}v$

Q.56 What constant force, tangential to the equator should be applied to the earth to stop its rotation in one day?

- (a) $1.3 \cdot 10^{22} \text{N}$
- (b) $8.26 \cdot 10^{28} \text{N}$
- (c) $1.3 \cdot 10^{23} \text{N}$
- (d) $4.3 \cdot 10^{28} \text{N}$

Q. 57 If R is the radius of the earth and g the acceleration due to gravity on the earth's surface, the mean density of the earth is:

- (a) $4\pi G/3gR$
- (b) $3\pi G/4gG$
- (c) $3g/4\pi RG$
- (d) $R\pi G/12G$

Q.58 A uniform cube is subjected to volume compression. If each side is decreased by 1%, then the bulk strain is:

- (a) 0.01
- (b) 0.06
- (c) 0.02
- (d) 0.03

Q.59 An application of Bernoulli's equation for fluid flow is found in:

- (a) Dynamic lift of an aeroplane
- (b) Viscosity meter
- (c) Capillary rise
- (d) Hydraulic press

Q.60 The equation of state for 5g of oxygen at a pressure P and temperature T , occupying volume V will be:

- (a) $PV=(5/32)RT$
- (b) $PV=5RT$
- (c) $PV=(5/2)RT$
- (d) $PV=(5/16)RT$

Q.61 When a red glass is heated in dark room, it will be seen:

- (a) Green
- (b) Purple
- (c) Black
- (d) Yellow

Q.62 The ratio of frequencies of two pendulum is 2:3, their length are in ratio:

- (a) $\sqrt{2}/3$
- (b) $\sqrt{3}/2$
- (c) 4/9
- (d) 9/4

Q.63 What is the phase difference between two successive crests in the water?

- (a) π
- (b) $\pi/2$
- (c) 2π
- (d) 3π

Q.64 Two charges are at distance ' d ' apart. If a copper plate of thickness $d/2$ is placed between them, the force will be:

- (a) $2F$
- (b) $F/2$
- (c) 0
- (d) $\sqrt{2}F$

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Q.65 Two charged spheres of radii R_1 and R_2 have equal surface charge density. The ratio of their potential will be:

- (a) R_1/R_2
- (b) R_2/R_1
- (c) $(R_1/R_2)^2$
- (d) $(R_2/R_1)^2$

Q.66 What is the angle between the electric dipole moment and electric field strength due to it on the equatorial line?

- (a) 0°
- (b) 90°
- (c) 180°
- (d) 240°

Q.67 The drift velocity v_d varies with the intensity of electric field as per the relation:

- (a) $v_d \propto E$
- (b) $v_d \propto 1/E$
- (c) $v_d \propto E^2$
- (d) $v_d \propto E^{3/2}$

Q.68 The lowest resistance, which can be obtained by connecting 10 resistances, each of 1/10 ohm?

- (a) 1/250 Ω
- (b) 1/200 Ω
- (c) 1/100 Ω
- (d) 1/10 Ω

Q.69 A coil of inductance L and resistance R is connected to a steady source of voltage. The current reaches half of its value in time:

- (a) L/R
- (b) $L/2 \ln 2$
- (c) R/L
- (d) $R/L \ln 2$

Q.70 Two similar circular loops carry equal currents in the same direction. On moving the coils further apart, the electric current:

- (a) Remains constant
- (b) Increases in one and decrease in the other
- (c) Increase in both
- (d) Decreases in both

Q.71 A μF capacitor is connected to an A.C. source of e.m.f with a frequency of 40 Hz and a maximum e.m.f. of 20 v. The maximum current is:

- (a) 0 A
- (b) 0.28 A
- (c) 1.8 A
- (d) 230 A

Q.72 The value of total energy-density of electromagnetic waves in vacuum is:

- (a) $1/2 \epsilon_0 E^2$
- (b) $1/2 B^2 / \mu_0$
- (c) $\epsilon_0 E^2$
- (d) $1/2 \mu_0 H^2$

Q.73 Image of an object approaching a convex mirror of radius of curvature 20 m along its optical axis is observed to move from (25/3) m to (50/7) m in 30 sec. What is the speed of the object in km/h?:

- (a) 5 km/h
- (b) 1 km/h
- (c) 6 km/h
- (d) 3 km/h

Q.74 What is the momentum of a photon having frequency 1.5×10^{13} Hz?

- (a) 3.3×10^{-29} kg-m/sec
- (b) 3.3×10^{-24} kg-m/sec
- (c) 6.6×10^{-30} kg-m/sec
- (d) 6.6×10^{-34} kg-m/sec

Q.75 $^{10}_5B$ is bounded with neutrons so that an α particle is emitted. The residual nucleus is:

- (a) 7_3Li
- (b) 1_1D
- (c) 1_1H
- (d) 1_0n

Q.Nos.76-77 .Choose proper one-word substitutes for the following sentences.

Q.76 One who looks at the brighter side of life:
(a) Pessimist

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- (b) Opportunist
- (c) Optimist
- (d) Specialist

- (a) the
- (b) a
- (c) an
- (d) no article

Q.77 That which cannot be read:

- (a) Illegal
- (b) Illegible
- (c) Illiterate
- (d) Illieit

Q.84 Ravi is.....tallest boy in the class

- (a) the
- (b) a
- (c) an
- (d) no article

Q.Nos.78-81.Fill in the blanks:

Q.78 One who is liked by everybody is.....

- (a) Leader
- (b) Hero
- (c) Actor
- (d) Popular

Q.Nos.85-87.Fill in the blanks with correct preposition in the given sentences.

Q.85 This letter is written....my friend

- (a) From
- (b) with
- (c) By
- (d) in

Q.79 The sun.... in the east every morning.

- (a) rise
- (b) rises
- (c) rose
- (d) has risen

Q.86 The river flows.....the bridge

- (a) in
- (b) under
- (c) with
- (d) to

Q.80 The train.....the station before I reached

- (a) leave
- (b) left
- (c) had left
- (d) will have left

Q.87 The little baby is suffering.....Fever.

- (a) with
- (b) By
- (c) from
- (d) for

Q.81 If I come to shimla,I.....You

- (a) Should meet
- (b) shall meet
- (c) meet
- (d) would meet

Q.Nos.88-89.Choose the correct passive voice of the sentences given below.

Q.88 Open the window

- (a) The window will be opened
- (b) The window should be opened
- (c) The window has been opened
- (d) Let the window be opened

Q.Nos.82-84.Use appropriate articles to complete the given sentences

Q.Sugar is used in making sweets.

- (a) The
- (b) A
- (c) An
- (d) No article

Q.89 He is reading a story

- (a) A story was being read by him
- (b) A story is being read by him
- (c) A story will be read by him
- (d) A story has been read by him

Q.83 His Father is.....M.P

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(d) Special Invitee

Q.90 Pick out the correct Indirect Narration of the following sentences: Sumit said to me" My father is reaching by train"

- (a) Sumit said that my father is reaching by train
- (b) Sumit told that my father was reaching by train
- (c) Sumit told me that his father was reaching by train
- (d) Sumit told me that my father is reaching by train

Q.91 The present Governor of Reserve Bank Of India is:

- (a) Raghu Ram Rajan
- (b) Shakti Kant Das
- (c) Rajeev Kumar
- (d) None of the above

Q.92 Which out of the following gases causes maximum air pollution:

- (a) carbon dioxide
- (b) Sulphur dioxide
- (c) Carbon monoxide
- (d) Methane

Q.93 The general elections being held in April-May, 2019 for the Lok Sabha, would be complete.....Phases

- (a) 7
- (b) 6
- (c) 4
- (d) 8

Q.94 Which is the major constituent of Gobar Gas?

- (a) Ethane
- (b) Propane
- (c) Butane
- (d) Methane

Q.95 The precise role of Dr. BR, Ambedkar in the constituent Assembly was as:

- (a) Chairman of Constituent Assembly
- (b) Chairman of Drafting Committee
- (c) Advisor to Constituent Assembly

Q.96 The place 'Pulwama' which was in news recently because of killing of CRPF personnel is situated in:

- (a) Jammu and Kashmir
- (b) Punjab
- (c) Himachal Pradesh
- (d) None of these

Q.97 National Chemical Laboratory is situated at:

- (a) Mumbai
- (b) Delhi
- (c) Pune
- (d) Bangluru

Q.98 Which of the following sports is associated with 'Ranji Trophy'?

- (a) Badminton
- (b) Hockey
- (c) Tennis
- (d) Cricket

Q.99 In which part of our body 'Red blood Cells' are formed?

- (a) Liver
- (b) Heart
- (c) Bone marrow
- (d) Kidney

Q.100 NaHCO₃ is known as:

- (a) Baking Powder
- (b) baking Soda
- (c) Sodium bicarbonate
- (d) All the above

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ANSWER KEY

1.D	23.C	45.C
2.C	24.B	46.B
3.B	25.D	47.D
4.B	26.A	48.A
5.C	27.D	49.A
6.B	28.B	50.B
7.D	29.D	51.D
8.A	30.A	52.B
9.D	31.C	53.D
10.C	32.C	54.C
11.D	33.A	55.D
12.C	34.C	56.A
13.C	35.B	57.C
14.C	36.A	58.D
15.B	37.B	59.A
16.D	38.C	60.A
17.A	39.B	61.A
18.B	40.B	62.D
19.C	41.B	63.C
20.A	42.C	64.C
21.ALL	43.C	65.A
22.B	44.B	66.C

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67.A

86.B

68.C

87.C

69.A

88.D

70.C

89.B

71.B

90.C

72.C

91.B

73.D

92.C

74.A

93.A

75.A

94.D

76.C

95.B

77.B

96.A

78.D

97.C

79.B

98.D

80.C

99.C

81.B

100.D

82.D

83.C

84.A

85.C

