

## AIIMS BSC Nursing Question Paper 27 June 2026

**Q1.** One mole of glucose molecules contains approximately

- (a)  $3.01 \times 10^{23}$  molecules
- (b)  $6.02 \times 10^{23}$  molecules
- (c)  $1.204 \times 10^{24}$  molecules
- (d)  $9.03 \times 10^{23}$  molecules

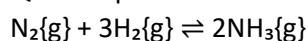
**Ans.(b)**

**Q2.** Benzaldehyde on treatment with concentrated NaOH undergoes Cannizzaro reaction to form

- (a) Benzyl alcohol and sodium benzoate
- (b) Benzoic acid and ethanol
- (c) Benzyl chloride and sodium benzoate
- (d) Benzene and sodium formate

**Ans.(a)**

**Q3.** At equilibrium for the reaction



the concentrations are  $\{\text{N}_2\} = 0.20 \text{ M}$ ,  $\{\text{H}_2\} = 0.60 \text{ M}$  and  $\{\text{NH}_3\} = 0.80 \text{ M}$ . The value of  $K_c$  is

- (a) 7.4
- (b) 14.8
- (c) 22.2
- (d) 44.4

**Ans.(b)**

**Q4.** A solution is prepared by dissolving 5.85 g of NaCl {Molar mass =  $58.5 \text{ g mol}^{-1}$ } in water to make 500 mL of solution.

The molarity of the solution is

- (a) 0.1 M
- (b) 0.2 M
- (c) 0.5 M
- (d) 1.0 M

**Ans.(b)**

**Q5.** According to Valence Bond Theory, the hybridization of the central metal ion in  $\{\text{Ni}\{\text{CN}\}_4\}^{2-}$  is

- (a)  $sp^3$
- (b)  $dsp^2$
- (c)  $d^2sp^3$
- (d)  $sp^2$

**Ans.(b)**

**Q6.** According to Molecular Orbital Theory, the bond order of  $\text{O}_2$  is

- (a) 1
- (b) 1.5
- (c) 2
- (d) 3

**Ans.(c)**



---

**Q7.** 100 mL of 2 M HCl is diluted to 500 mL. The molarity of the diluted solution is

- (a) 0.2 M
- (b) 0.4 M
- (c) 0.5 M
- (d) 1.0 M

**Ans.(b)**

**Q8.** The IUPAC name of  $\text{CH}_3\text{CH}(\text{OH})\text{CH}_2\text{CH}_3$  is

- (a) Butan-1-ol
- (b) Butan-2-ol
- (c) Propan-2-ol
- (d) 2-Methylpropan-1-ol

**Ans.(b)**

**Q9.** The coordination number of cobalt in  $\{\text{Co}(\text{NH}_3)_6\}\text{Cl}_3$  is

- (a) 3
- (b) 4
- (c) 6
- (d) 8

**Ans.(c)**

**Q10.** Which reagent converts ethanol into bromoethane?

- (a)  $\text{KMnO}_4$
- (b)  $\text{PBr}_3$
- (c)  $\text{NaOH}$
- (d)  $\text{H}_2\text{SO}_4$

**Ans.(b)**

**Q11.** A diode is forward biased by 0.7 V. If the forward resistance is  $10 \Omega$ , the current through the diode is

- (a) 0.007 A
- (b) 0.07 A
- (c) 0.7 A
- (d) 7 A

**Ans.(b)**

**Q12.** In Young's double-slit experiment, the slit separation is 0.4 mm and the screen is 2 m away. If light of wavelength 600 nm is used, the fringe width is

- (a) 2 mm
- (b) 3 mm
- (c) 4 mm
- (d) 5 mm

**Ans.(b)**

---

**Q13.** The entropy change when 400 J of heat is absorbed reversibly at 400 K is

- (a)  $0.5 \text{ J K}^{-1}$
- (b)  $1 \text{ J K}^{-1}$
- (c)  $2 \text{ J K}^{-1}$
- (d)  $4 \text{ J K}^{-1}$

**Ans.(b)**

**Q14.** In Young's double-slit experiment, the wavelength of light is doubled while all other parameters remain unchanged. The fringe width becomes

- (a) Half of the original
- (b) Unchanged
- (c) Double the original
- (d) Four times the original

**Ans.(c)**

**Q15.** The resistance of a semiconductor decreases when its temperature increases because

- (a) the number of free charge carriers increases
- (b) electron mass decreases
- (c) atomic spacing increases
- (d) mobility becomes zero

**Ans.(a)**

**Q16.** An electromagnetic wave has a frequency of 150 MHz. Its wavelength in air is approximately

- (a) 0.5 m
- (b) 1 m
- (c) 2 m
- (d) 4 m

Top of Form

Bottom of Form

Top of Form

Bottom of Form

**Ans.(c)**

**Q17.** A radioactive substance has a half-life of 5 days. If its initial mass is 80 g, the mass remaining after 15 days is

- (a) 40 g
- (b) 20 g
- (c) 10 g
- (d) 5 g

**Ans.(c)**

**Q18.** A coil of 100 turns experiences a change in magnetic flux from 0.05 Wb to 0.01 Wb in 0.2 s. The induced emf is

- (a) 10 V
- (b) 15 V
- (c) 20 V
- (d) 25 V

**Ans.(c)**

---

**Q19.** A convex lens of refractive index 1.5 has radii of curvature +20 cm and -20 cm. The focal length of the lens is

- (a) 10 cm
- (b) 20 cm
- (c) 40 cm
- (d) 80 cm

**Ans.(b)**

**Q20.** The measured length of a rod is  $\{20.0 \pm 0.2\}$  cm. The percentage error in the measurement is

- (a) 0.5%
- (b) 1%
- (c) 2%
- (d) 5%

**Ans.(b)**

**Q21.** Who among the following is the ex-officio Chairman of the Rajya Sabha?

- (a) Leader of Opposition
- (b) President of India
- (c) Vice-President of India
- (d) Senior Member of Rajya Sabha

**Ans.(c)**

**Q22.** The Strait of Hormuz is located between which countries?

- (a) Iran and Saudi Arabia
- (b) Iran and Oman, and the UAE
- (c) Oman and Saudi Arabia
- (d) Iraq and Iran

**Ans.(b)**

**Q23.** Chilika Lake, the largest salt water lake in India in the state of Orissa, lies to the south of the .

- (a) Baitarani delta
- (b) Brahmani delta
- (c) Budhabalanga delta
- (d) Mahanadi delta

**Ans.(d)**

**Q24.** Who was the Union Home Minister of India as of June 2025, following the general elections?

- (a) Nirmala Sitharaman
- (b) Rajnath Singh
- (c) Amit Shah
- (d) Piyush Goyal

**Ans.(c)**

**Q25.** Which Indian Ocean island country uses the "Rufiyaa" as its official currency for domestic and international transactions?

- (a) Sri Lanka
- (b) Maldives
- (c) Mauritius
- (d) Seychelles

**Ans.(b)**

---

**Q26.** Which condition is characterised by reduced clotting ability of blood?

- (a) Leukaemia
- (b) Haemophilia
- (c) Polycythemia
- (d) Atherosclerosis

**Ans.(b)**

**Q27.** Match the following:

	List I		List II
(A)	Heroin	(i)	Obtained from the inflorescences of the plant <i>Cannabis sativa</i>
(B)	Natural cannabinoids	(ii)	Diacetyl morphine
(C)	Coca	(iii)	Also called as <i>Papaver somniferum</i>
(D)	Poppy plant	(iv)	<i>Erythroxylum coca</i>

- (a) (A) → (iii); (B) → (iv); (C) → (i); (D) → (ii)
- (b) (A) → (ii); (B) → (i); (C) → (iv); (D) → (iii)
- (c) (A) → (iii); (B) → (iv); (C) → (i); (D) → (ii)
- (d) (A) → (i); (B) → (ii); (C) → (iii); (D) → (iv)

**Ans.(b)**

**Q28.** Analysis of the species-area relationships indicate the value of Z to be in the range of.

- (a) 0.1 to 0.5
- (b) 0.5-1.1
- (c) 0.6-1.2
- (d) 1.2 – 2.0

**Ans.(c)**

**Q29.** A permanent cure for ADA deficiency could be through:

- (a) Bone marrow transplantation
- (b) Modified lymphocyte transfusion
- (c) Gene therapy at early embryonic stages
- (d) Enzyme replacement therapy

**Ans.(c)**

**Q30.** Filiform apparatus is found in

- (a) Antipodal cell
- (b) Egg cell
- (c) Secondary nucleus
- (d) Synergids

**Ans.(d)**

---

**Q31.** Match the following:

List 1 (Group) List 2 (Example)

- A. Bryophyta 1. Cycas  
B. Pteridophytes 2. Ulothrix  
C. Gymnosperm 3. Marchantia  
D. Algae 4. Equisetum

(a) A-3, B-4, C-1, D-2

(b) A-2, B-3, C-4, D-1

(c) A-4, B-1, C-2, D-3

(d) A-1, B-2, C-3, D-4

**Ans.(a)**

**Q32.** Common in Darwin's finches and Australian marsupials is:

(a) They are all extinct.

(b) They show adaptive radiation.

(c) They have homologous organs.

(d) They are all found in South America.

**Ans.(b)**

**Q33.** Which of the following belongs to the Solanaceae family?

(a) Potato, Tomato, Brinjal

(b) Wheat, Rice, Maize

(c) Rose, Apple, Pear

(d) Pea, Gram, Soybean

**Ans.(a)**

**Q34.** Which disease is caused by Plasmodium?

(a) Dengue

(b) Typhoid

(c) Malaria

(d) Filariasis

**Ans.(c)**

**Q35.** Which growth regulator promotes fruit ripening?

(a) Auxin

(b) Gibberellin

(c) Cytokinin

(d) Ethylene

**Ans.(d)**

**Q36.** Which hormone-based contraceptive prevents ovulation?

(a) Copper-T

(b) Condoms

(c) Oral pills

(d) Diaphragm

**Ans.(c)**



---

**Q37.** Below given are two statements:

Statement I: MTPs are considered relatively safe during the first trimester

Statement II: Government of India legalised MTP in 1971

In the light of above statements, choose the most appropriate answer from the options given below:

- (a) Both statement I and II are correct
- (b) Both statement I and II are incorrect
- (c) Statement I is correct and statement II is incorrect
- (d) Statement I is incorrect and statement II correct

**Ans.(a)**

**Q38.** Which of the following hormones control (s) the menstrual cycle in human beings?

- (a) FSH
- (b) LH
- (c) FSH, LH, estrogen
- (d) Oxytocin

**Ans.(c)**

**Q39.** Which of the following is the correct sequence of taxonomic hierarchy?

- (a) Kingdom → Phylum → Class → Order → Family → Genus → Species
- (b) Species → Genus → Family → Order → Class → Phylum → Kingdom
- (c) Kingdom → Class → Phylum → Order → Family → Genus → Species
- (d) Phylum → Kingdom → Class → Order → Family → Genus → Species

**Ans.(a)**

**Q40.** Which statements correctly describe Mycoplasma?

- 1.They lack a cell wall.
2. They can survive without oxygen.
3. They are the smallest known free-living organisms.
- 4.Their cell membrane contains sterols.

- (a) 1, 3, 4
- (b) 2 and 4
- (c) 1, 2, 3
- (d) 1, 2, 3, 4

**Ans.(d)**