

70 CG BSc Nursing Most Important Practice Questions for 2026

Part I: Nursing Aptitude (20 Expected Questions)

1. What immediate factor dictates the primary first aid intervention applied to a patient suffering from a thermal burn?
2. Which anatomical system is structurally responsible for supporting body organs and protecting vital internal cavities?
3. Excess environmental presence of which chemical ion in drinking water is clinically proven to cause tooth decay and fluorosis in pediatric patients?
4. On which historic date was the national cleanliness initiative "Swachh Bharat Abhiyan" officially launched?
5. What is epidemiologically documented as the most common anatomical site for an intracranial hemorrhage?
6. Which demographic group serves as the primary target for the core initiatives under India's Family Welfare Program?
7. The respiratory conditions MERS and SARS are cytologically categorized under which viral family?
8. What specific structural portion of the vertebral column serves as the primary starting point for spinal tuberculosis (Pott's disease)?

9. What are the three core functional dimensions encompassing the scope of public health delivery systems?
10. In psychiatric defense mechanisms, what term describes the subconscious expression of psychological anxiety through physical somatoform symptoms?
11. When did the government of India officially initiate the second phase of the nationwide COVID-19 vaccination drive?
12. List the primary environmental and behavioral determinants that directly influence an individual's holistic health status.
13. In which specific year was the comprehensive National Health Policy first implemented in India?
14. What psychological term defines an individual's intrinsic ability to understand, process, and evaluate their own behavior and emotions?
15. Which pathogenic classification is responsible for human typhoid fever, and how does it compare to viral hepatitis vectors?
16. What is the alternative pedagogical and communication name used to define a structured "two-way communication" method?
17. What are the three standardized anthropometric indicators utilized to measure and map child nutritional degradation?
18. What systematic nursing framework serves as the primary diagnostic tool for delivering community-oriented care?
19. Does clinical malnutrition encompass the hyper-saturation of dietary proteins, or is it limited to structural nutrient deficits?

20. Under what financial model is the maternal health welfare scheme *Janani Suraksha Yojana* funded and executed in India?

Part II: Physics (15 Expected Questions)

21. What is the ratio of the energy of emitted radiation of a perfect black body when its temperature shifts from 27°C to 927°C ?
22. Prove why angular velocity and fundamental frequency share identical dimensional formulas, unlike force and mechanical strain.
23. Derive the algebraic expression for the mass of a planet around which a moon revolves with an orbital radius R and a time period T .
24. Calculate the minimum refractive index required for an isosceles right-angled prism to achieve total internal reflection of a normally incident light ray.
25. According to Bohr's atomic theory, what is the exact value of the orbital angular momentum of an electron moving within the second orbit of a Hydrogen atom?
26. Determine the ratio of the number of air moles n_A / n_B trapped within two interconnected soap bubbles of radii 2 cm and 4 cm under a constant chamber pressure.
27. Three thin uniform rods, each of mass M and length L , are positioned along the X , Y , and Z axes with one end at the origin; find the system's moment of inertia about the Z -axis.

28. At the absolute apex/top of a parabolic projectile trajectory, what is the exact magnitude and direction of the projectile's acceleration vector?
29. If the electric potential function in a region is defined by $V = -5x + 3y + \sqrt{15}z$, calculate the total magnitude of the resultant electric field.
30. State the formula used to calculate the minimum cutoff wavelength λ_{\min} of continuous X-rays produced by electrons accelerated across a potential difference of V volts.
31. Two batteries (5V, 2Ω internal resistance and 2V, 1Ω internal resistance) are connected in parallel across a 10Ω load resistor; calculate the net current flow.
32. A $16\ \mu\text{F}$ capacitor is charged to 20V and discharged through a pure 40mH inductor; find the peak current during the resulting LC oscillations.
33. What is the minimum physical distance possible between a real object and its corresponding real image when placed before a concave mirror?
34. Two identical wires made of steel and copper are subjected to equal stretching forces; calculate the ratio of elongation based on their Young's Moduli.

35. A galvanometer with an internal coil resistance of 20Ω yields a full-scale deflection at 1mA ; calculate the shunt resistance required to convert it into a 1A ammeter.

Part III: Chemistry (15 Expected Questions)

36. Provide the precise IUPAC nomenclature for the branched diol compound: $\text{CH}_3\text{-C}(\text{CH}_3)(\text{OH})\text{-CH}_2\text{-CH}(\text{OH})\text{-CH}_3$.
37. If the electronegativity difference between two bonded elemental atoms in a diatomic molecule is exactly 2.0, what is the estimated percentage of ionic character?
38. Identify the specific organic reagents, intermediates, and catalytic steps that distinguish a Clemmensen reduction from a Stephen's reduction.
39. Arrange the following oxides in the strict decreasing order of their intrinsic acidic character: N_2O_5 , SO_2 , CO_2 , and CO .
40. Why does mercuric chloride (HgCl_2) fail to yield a positive, characteristic response during a standard chromyl chloride laboratory test?
41. Predict the final amine product [P] when methylamine is sequentially treated with HNO_2 , PI_3 , NaCN , and lastly reduced via LiAlH_4 .
42. The observed molecular mass of a volatile electrolyte MX_2 is 65.6, while its calculated theoretical mass is 164; deduce its exact degree of dissociation.

43. A liquid exhibits an enthalpy of vaporization equal to 30 kJ mol^{-1} and an entropy of vaporization of $75 \text{ J K}^{-1} \text{ mol}^{-1}$; determine its boiling point.
44. Explain how multiple oxidation states and vacant d-orbitals enable transition metals like Manganese and Iron to function as highly efficient catalysts.
45. What structural product is synthesized when benzaldehyde is condensed with malonic acid in a pyridine solvent medium via the Knoevenagel reaction?
46. Why does an aqueous, colorless salt solution of silver nitrate (AgNO_3) turn vivid blue upon the physical immersion of a metallic copper strip?
47. Detail why $[\text{Ni}(\text{NH}_3)_6]^{2+}$ is classified as an outer orbital spin complex, whereas $[\text{Fe}(\text{CN})_6]^{4-}$ forms an inner orbital complex.
48. What is the total count of homonuclear sulfur-sulfur (S-S) single covalent bonds present within the cyclic trimer structure of sulfur trioxide (S_3O_9)?
49. If the experimental activation energy (E_a) of a homogeneous chemical reaction is zero, how does the net rate constant vary with temperature?
50. What is the precise chemical structure of the reactive electrophilic intermediate generated during a standard Lewis-acid catalyzed Friedel-Crafts acylation reaction?

Part IV: Biology (10 Expected Questions)

51. Which evolutionary relic structures are distinctly observed in the early embryonic developmental stages of a human embryo?
52. In which specific histological section of the mammalian gastrointestinal tract is the sub-mucosa layer found to be thickest?
53. What is the anatomical designation of the first cervical vertebra that articulates directly with the occipital condyles of the skull?
54. If a colorblind man marries a phenotypically normal woman whose father was colorblind, what are the precise genotypic probabilities for their offspring?
55. From which primary embryonic germ layer and specialized primitive structure does the mammalian allantois membrane differentiate?
56. Given a triplet codon system consisting of combinations of four nitrogenous bases, what is the maximum number of codons available to map the 20 standard amino acids?
57. What is the exact functional mechanism of the micronutrient Molybdenum (Mo) within plant nitrogen-fixing enzyme systems?
58. Why is the sinoatrial node (SA Node) physiologically designated as the true 'Heart of the Heart' within the cardiac conduction pathway?

59. Identify the precise enzyme that catalyzes the initial condensation step of Acetyl-CoA with Oxaloacetic Acid within the mitochondrial Krebs Cycle matrix.
60. Calculate the exact number of secondary spermatocytes required to successfully generate 400 mature, functional spermatozoa during spermatogenesis.

Part V: English (10 Expected Questions)

61. In Alphonse Daudet's short story "*The Last Lesson*", what specific alternative activities was Franz seeking when attempting to skip formal schooling?
62. Convert the direct narrative statement into proper indirect speech format: *Ratan said to me, "We shall go to Mumbai next week."*
63. What structural sequence represents the standard, globally accepted format for the Cornell Note-Taking system?
64. Change the active sentence into its grammatically accurate passive voice equivalent: *"They are currently cleaning the intensive care unit."*
65. In Pablo Neruda's poem "*Keeping Quiet*", what structural symbolism is conveyed by the phrase "putting on clean clothes"?
66. What are the formal guidelines governing the precise positioning of the issuing institution's name within an official public notice?

67. In the autobiographical essay "*Deep Water*", what underlying psychological trauma caused William Douglas to develop an initial aversion to deep water bodies?
68. Select the grammatically accurate complimentary close option required at the termination of a formal business letter.
69. Identify the nature of the subordinate clause highlighted within the compound sentence: "*They quietly went to sleep when the night came.*"
70. Read a descriptive clinical comprehension passage regarding cataracts to isolate the precise vocabulary term that means "impenetrable to incoming light rays."