RRB Pharmacist

Memory Based Paper

(English Medium)

23 Nov 2026 (Shift 1)

50 Questions | Answer Key | Pharmacy + GK

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RRB Pharmacist Memory Based Paper — 23 Nov 2026 (Shift 1)

Q1. What type of gas is released when ethanol reacts with sodium?
(a) Oxygen (b) Carbon dioxide (c) Hydrogen (d) Nitrogen

Q2. Ethanol reacts with sodium leading to the evolution of which gas?
(a) Nitrogen (b) Hydrogen (c) Oxygen (d) Methane

Q3. Which of the following gas is evolved when ethanol reacts with sodium?
(a) Oxygen (b) Chlorine (c) Hydrogen (d) Methane

Q4. Ethanol reacts with sodium to give:
(a) Nitrogen gas (b) Bromine gas (c) Hydrogen gas (d) Chlorine gas

Q5. According to the Lewis acid base concept, a Lewis acid is defined as an:
(a) Electron acceptor (b) Proton acceptor (c) Electron donor (d) Proton donor

Q6. In a Lewis acid-base reaction, the Lewis acid is:
(a) a proton donor
(b) a proton acceptor
(c) an electron pair donor
(d) an electron pair acceptor

Q7. Which of the following statements are correct according to the Lewis theory of acids and bases?
A. A Lewis acid is an electron pair acceptor.
B. A Lewis base is an electron pair donor.
C. The reaction between H^+ and OH^- to form H_2O is a Lewis acid-base reaction.
D. All Bronsted-Lowry acids are also Lewis acids.
E. The formation of a coordinate covalent bond is characteristic.
Choose the correct answer from the options given below:
(a) A, B and C Only (b) A, B, D and E Only (c) B, C, D and E Only (d) A, B, C, D and E

Q8. Which pair acts as a conjugate acid–base pair?
(a) Cl_2 and Cl^- (b) NaOH and OH^- (c) H_2O and HCl (d) NH_4^+ and NH_3

Q9. Which pair of chemical species represents a conjugate acid-base pair according to the Brønsted-Lowry theory?
(a) H_2SO_4 and SO_4^{2-} (b) H_3O^+ and OH^- (c) HCO_3^- and CO_3^{2-} (d) NH_4^+ and NH_2^-

Q10. As per Arrhenius concept, a compound may be called an acid if:
(a) It dissociates to form H^+ ions
(b) It dissociates to form OH^- ions
(c) It accepts lone pair of electrons
(d) It donates lone pair of electrons

Q11. An Arrhenius base is characterized as:
(a) A substance that increases the concentration of hydroxide ions in a solution
(b) A substance that decreases the concentration of hydroxide ions in a solution
(c) A substance that increases the concentration of hydrogen ions in a solution
(d) A substance that decreases the concentration of hydrogen ions in a solution

Q12. Which is a base under the Arrhenius, Brønsted–Lowry and Lewis theories?
(a) OH^- (b) O^{2-} (c) H_2O (d) NH_3

Q13. The energy of the bonding and antibonding molecular orbitals are respectively can be
(a) Higher and lower than either of the atomic orbitals combined to form it.
(b) Lower and higher than either of the atomic orbitals combined to form it.
(c) Equal and higher than either of the atomic orbitals combined to form it.
(d) Higher and equal than either of the atomic orbitals combined to form it.

Q14. According to Molecular Orbital Theory, the bond order of O_2 is
(a) 1 (b) 1.5 (c) 2 (d) 3

Q15. **Precursor for isoquinoline group of alkaloid is:**
(a) Tryptophan (b) Tyrosine (c) Ornithine (d) Lysine

Q16. **Ketone bodies are formed primarily due to which of the following metabolic changes?**
(a) Breakdown in the β-oxidation pathway leading to an excess of acetyl-CoA.
(b) Inhibition of fatty acid activation and transport.
(c) Channeling of oxaloacetate from the citric acid cycle into gluconeogenesis.
(d) Inhibition of cAMP production.

Q17. **Morphine produces its powerful analgesic and euphoric effects primarily by acting as an agonist at which opioid receptor subtype?**
(a) Delta opioid receptor (b) Mu opioid receptor
(c) Kappa opioid receptor (d) Sigma receptor

Q18. **Where are the opioid receptors present in the human body?**
(a) Peripheral nervous system (b) Central nervous system
(c) Gastro intestinal tract (d) Both (B) and (C)

Q19. **Chlorpromazine is a phenothiazine antipsychotic useful in the treatment of:**
(a) Schizophrenia (b) Parkinsonism (c) Mental depression (d) Myasthenia gravis

Q20. **Which adverse effect is characteristic of long term administration of typical antipsychotics like chlorpromazine and haloperidol?**
(a) Parkinsonian tremor only (b) Acute dystonia only
(c) Tardive dyskinesia (d) Akathisia only

Q21. **Chlorpromazine is an aliphatic phenothiazine typical antipsychotic drug. Which ocular complication is associated with its prolonged high-dose administration?**
(a) Retinal detachment
(b) Open-angle glaucoma
(c) Granular pigmentary deposits in the cornea and lens
(d) Retrobulbar optic neuritis

Q22. **Which of the following is a Phase II drug metabolism reaction?**
(a) Oxidation (b) Acetylation (c) Reduction (d) Hydrolysis

Q23. **Phase II biotransformation reactions are primarily characterized by:**
(a) Introduction or unmasking of functional groups via oxidation or reduction.
(b) Conjugation of functional groups with endogenous polar molecules.
(c) Conversion of lipophilic active drugs into lipid-soluble metabolites.
(d) Inactivation of drugs exclusively via Cytochrome P450 isoenzymes.

Q24. **Which metabolic pathway represents an N-dealkylation Phase I reaction catalyzed by CYP450?**
(a) $R–CH_2–CH_3 \rightarrow R–CH(OH)–CH_3$ (b) $R–NH–CH_3 \rightarrow [R–NH–CH_2OH] \rightarrow R–NH_2 + HCHO$
(c) $R–SH \rightarrow R–S–S–R$ (d) $R–NO_2 \rightarrow R–NH_2$

Q25. **Hammer mill works on the principle of**
(a) Shear (b) Crushing (c) Impact (d) Friction

Q26. **The hammer mill reduces particle size primarily by:**
(a) Impact (b) Compression (c) Shearing (d) Crushing

Q27. **Capping in tablet manufacturing refers to:**
(a) The complete or partial horizontal separation of the top or bottom crown of a tablet from the main body
(b) Sticking of powder to the punch face
(c) The development of colored spots on the tablet surface
(d) The splitting of a tablet into equal halves during packaging

Q28. **Which of the following is NOT a tablet defect?**
(a) Chipping (b) Sticking (c) Phase inversion (d) Double impression

Q29. **Sticking and Picking defects on tablet surfaces during compression are generally caused by:**
(a) Excessively dry granules and low compression speed
(b) Excessive granule moisture, inadequate lubrication, or scratched/embossed punch faces
(c) Using oversize punch barrels
(d) Very low humidity in the compression room

Q30. **In the official tablet Friability Test using a Roche Friabilator, what is the standard rotation speed and total duration of the test?**
(a) 100 rpm for 1 minute (b) 50 rpm for 10 minutes
(c) 25 rpm for 4 minutes (d) 10 rpm for 20 minutes

Q31. **What is the Tyndall effect?**
(a) Scattering of light in a true solution
(b) Visibility of light path in a colloidal solution
(c) Absorption of light by colloidal particles
(d) Reflection of light in a solution

Q32. **Volatile oil content in crude drugs is determined by distillation of the drug with water using which specialized glass apparatus?**
(a) Soxhlet apparatus (b) Clevenger apparatus
(c) Kipps apparatus (d) Gutzeit apparatus

Q33. **In the official pharmacopoeial Sterility Test, what does the Membrane Filtration method require?**
(a) Filtering the product through a 0.45-micrometer membrane, washing to remove antimicrobial residues, and transferring the filter into culture media
(b) Boiling the solution through cotton cloth
(c) Passing the product through an electric wire mesh
(d) Pouring the solution into open culture plates

Q34. **What minimum particle filtration efficiency is certified for HEPA filters used in cleanrooms and laminar flow hoods?**
(a) 90.00 percent for 5.0 micrometer particles (b) 95.00 percent for 1.0 micrometer particles
(c) 99.97 percent for 0.3 micrometer particles (d) 80.00 percent for 0.5 micrometer particles

Q35. **What is the purpose of a retention enema?**
(a) To empty the bowel
(b) To soften the hardened faeces and gently stimulate the peristalsis
(c) To relieve distension caused by flatus
(d) To reduce bowel action

Q36. **The "Medical Termination of Pregnancy (MTP) Act" was enacted in India in which year?**
(a) 1961 (b) 1971 (c) 1981 (d) 1991

Q37. **The Medical Termination of Pregnancy (MTP) Act was passed by the Parliament of India in which year?**
(a) 1971 (b) 1955 (c) 1948 (d) 1985

Q38. What constitutes lawful grounds for termination of pregnancy under the MTP Act?
(a) Danger to the life of the pregnant woman or grave injury to her physical or mental health
(b) Substantial risk that the child if born would suffer severe physical or mental abnormalities
(c) Pregnancy caused by rape or failure of any device or method used by any woman or her partner for family planning
(d) All of the above conditions

Q39. Under the MTP (Amendment) Act 2021, termination of pregnancy between 20 and 24 weeks of gestation requires the unanimous opinion of:
(a) One registered nurse
(b) Two Registered Medical Practitioners
(c) A local police inspector
(d) Five village elders

Q40. Under the MTP (Amendment) Act 2021, up to what gestational age can a pregnancy be legally terminated on the opinion of ONE Registered Medical Practitioner?
(a) Up to 12 weeks of gestation
(b) Up to 20 weeks of gestation
(c) Up to 36 weeks of gestation
(d) Up to 28 weeks of gestation

Q41. Which section of the Medical Termination of Pregnancy Act, 1971 talks about 'Protection of privacy of a woman'?
(a) Section 7 (b) Section 5A (c) Section 6 (d) Section 8

Q42. Under Schedule J of the Drugs and Cosmetics Rules 1945, which of the following conditions is listed as an incurable disease that no drug may claim to prevent or cure?
(a) Common cold
(b) Mild indigestion
(c) Minor skin abrasions
(d) Glaucoma, Cataract, and Bronchial Asthma

Q43. UN's 2030 Agenda for Sustainable Development consists of how many Sustainable Development Goals (SDGs)?
(a) 10 (b) 15 (c) 17 (d) 20

Q44. How many Sustainable Development Goals (SDGs) are included in the United Nations 2030 Agenda for Sustainable Development?
(a) 15 (b) 17 (c) 19 (d) 21 (e) 12

Q45. In August 2025, DRDO tested 'Sudarshan Chakra' project related to _____.
(a) Satellite
(b) Nuclear Reactor
(c) Submarine
(d) Air Defence Laser System

Q46. Article 51-A deals with fundamental duties. Currently how many fundamental duties are mentioned?
(a) 10 (b) 11 (c) 12 (d) 15

Q47. Examine the following statements regarding the Fundamental Duties :
(a) Article 51 deals with the Fundamental Duties.
(b) Fundamental Duties were incorporated in the Constitution through 42nd Amendment Act 1976.
(c) Fundamental Duties cannot be enforced by 'writs'.
(d) Fundamental Duties cannot be promoted by Constitutional methods.
Choose the correct answer :
(a) (a) and (b) only (b) (b) and (c) only (c) (a) and (c) only (d) (a), (b) and (c)

Q48. Consider the following statements regarding the Padma Vibhushan Awards 2026:

1. Dharmendra Singh Deol was awarded the Padma Vibhushan posthumously in the field of Art.
2. K. T. Thomas received the Padma Vibhushan in the field of Public Affairs.
3. N. Rajam was awarded the Padma Vibhushan in the field of Literature and Education.
4. P. Narayanan received the Padma Vibhushan in the field of Literature and Education.
5. V. S. Achuthanandan was awarded the Padma Vibhushan posthumously in the field of Public Affairs.

Which of the above statements are correct?

(a) Only 1, 2 and 3
(b) Only 1, 2, 4 and 5
(c) Only 2, 3, 4 and 5
(d) Only 1, 3 and 5
(e) 1, 2, 3, 4 and 5

Q49. A ray of light passes through the optical centre of a thin convex lens. Neglecting lens thickness, the ray

(a) bends towards the principal axis
(b) bends away from the principal axis
(c) passes approximately undeviated
(d) undergoes total internal reflection

Q50. If a ray of light passes through the optical center of a thin spherical lens, what is the path of the emergent ray?

(a) It is absorbed by the lens material
(b) It bends towards the principal axis
(c) It continues in the same direction without deviation
(d) It reflects back along its original path

Answer Key

1. (c)	**2.** (b)	**3.** (c)	**4.** (c)	**5.** (a)	**6.** (d)	**7.** (d)	**8.** (d)	**9.** (c)	**10.** (a)
11. (a)	**12.** (a)	**13.** (b)	**14.** (c)	**15.** (b)	**16.** (a)	**17.** (b)	**18.** (d)	**19.** (a)	**20.** (c)
21. (c)	**22.** (b)	**23.** (b)	**24.** (b)	**25.** (c)	**26.** (a)	**27.** (a)	**28.** (c)	**29.** (b)	**30.** (c)
31. (b)	**32.** (b)	**33.** (a)	**34.** (c)	**35.** (b)	**36.** (b)	**37.** (a)	**38.** (d)	**39.** (b)	**40.** (b)
41. (b)	**42.** (d)	**43.** (c)	**44.** (b)	**45.** (d)	**46.** (b)	**47.** (b)	**48.** (b)	**49.** (c)	**50.** (c)

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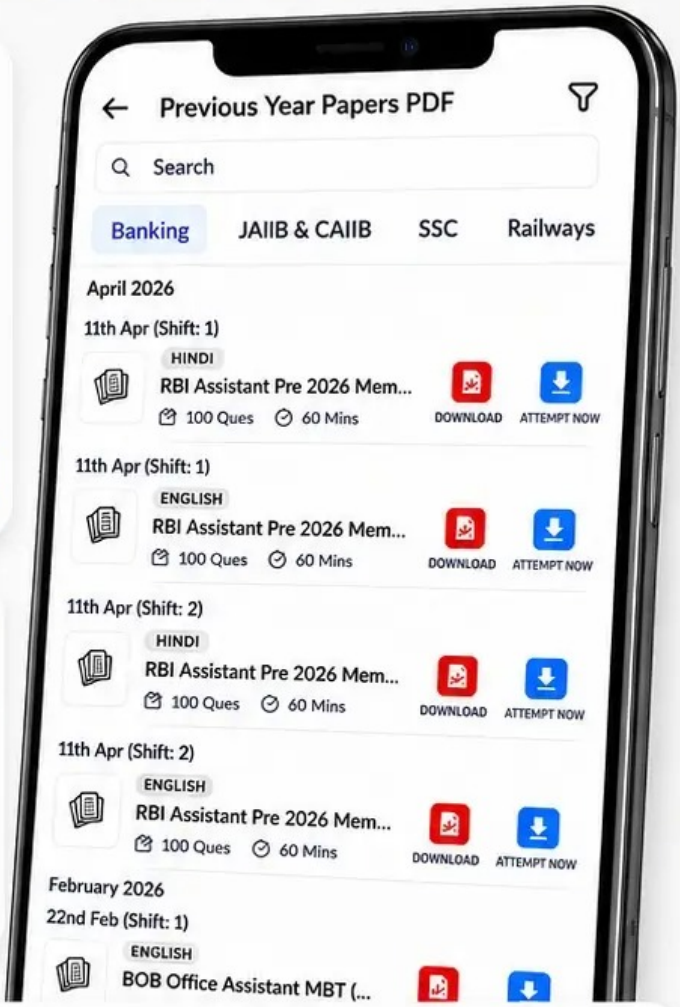

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