

PROVISIONAL ANSWER KEY

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1. In the measurement of length $6 \mu\text{m}$ is equal to x pm. Then the value of x is

- A) 1.5×10^{-5}
- B) 1.2×10^6
- C) 3×10^{-6}
- D) 6×10^6
- E) 2×10^{-12}

Correct Answer : Option D

2. Dimensions of the physical quantity X in the equation $\text{Force} = \frac{X}{\text{Volume}}$ are

- A) ML^3T^2
- B) MLT
- C) ML^2T^2
- D) MLT^{-2} (E)
- E) ML^4T^{-2}

Correct Answer : Option D

3. A man loses 50% of his velocity after running a distance of 100 m. If his retardation is uniform, the distance he will cover before coming to rest is

- A) 45.2 m
- B) 33.3 m
- C) 27.5 m
- D) 15.7 m
- E) 50.5 m

Correct Answer : Option B

4. A projectile is given an initial velocity of $(\hat{i} + \hat{j}) \text{ ms}^{-1}$ where \hat{i} is along the ground and \hat{j} is along the vertical direction. The equation of its trajectory is ($g = 10 \text{ ms}^{-2}$)

- A) $y^2 = 2x$
- B) $y^2 - 1 = 5x$
- C) $y = x - 5x^2$
- D) $y = x^2$
- E) $y = x^2 - 2$

Correct Answer : Option C

5. A particle is describing a uniform circular motion with certain constant speed. The INCORRECT statement is

- A) The velocity and acceleration vectors are perpendicular to each other
- B) The velocity vector is tangential to the circular path

- C) The centripetal acceleration is a variable acceleration
- D) The acceleration vector points to the centre of the circle
- E) The acceleration vector is tangential to the circular path

Correct Answer : Option E

6. A particle moves under the influence of a force in the XY -plane such that the components of its linear momentum \vec{p} at any time t is $p_x = p \sin t$ and $p_y = p \cos t$. The angle between \vec{F} and \vec{p} at that time is

- A) 45°
- B) 60°
- C) 30°
- D) 90°
- E) 0°

Correct Answer : Option D

7. In a 'tug of war' game, two persons pull each other through a massless rope. The person who wins is

- A) One whose weight is less
- B) One who exerts more friction force (shearing force) on the ground
- C) One who exerts more normal force (compressing force) on the ground
- D) One who pulls the rope with a greater force
- E) One whose weight is more

Correct Answer : Option B

8. When a spring of spring constant k is cut into two pieces whose lengths are l_1 and l_2 , then the ratio of their spring constants k_1 and k_2 is

- A) $\frac{l_2}{l_1}$
- B) $\frac{l_1}{l_2}$
- C) $\sqrt{l_1 l_2}$
- D) $l_1 l_2$
- E) $\frac{1}{l_1 l_2}$

Correct Answer : Option A

9. If P is the pressure at which heart is pumping the blood and the volume of blood pumped per second is V , then the power of heart is given by

- A) $\frac{P}{V}$
- B) $\frac{P^2}{V}$
- C) PV

- D) $\frac{P}{V_2}$
E) P^2V

Correct Answer : Option C

10. A block of mass M moves with a velocity v along a frictionless horizontal surface towards another block of mass $2M$ at rest. The velocity of centre of mass of the system of blocks is

- A) $\frac{v}{2}$
B) $2v$
C) $3v$
D) $\frac{v}{3}$
E) $\frac{v}{4}$

Correct Answer : Option D

11. The radius of gyration of a regular solid cylinder of radius R about its axis is

- A) $\frac{R}{2}$
B) R
C) $\frac{R}{\sqrt{2}}$
D) $2R$
E) $\frac{R}{4}$

Correct Answer : Option C

12. When two spheres of radii r and $r/2$ are brought in contact, the gravitational force of attraction between them is proportional to

- A) r^6
B) r^4
C) r^{-6}
D) r^{-4}
E) r^{-2}

Correct Answer : Option E

13. The gravitational potential energy of a system of two bodies each of mass m and distance r between them is (G = gravitational constant, g = acceleration due to gravity)

- A) $-\frac{Gm^2}{r^2}$

B) $-\frac{Gm^2}{r}$

C) $-\frac{gm^2}{r}$

D) $-G\frac{gm^2}{r}$

E) $-\frac{Ggm}{r^2}$

Correct Answer : Option B

14. Which of the following has maximum Young's modulus value?

- A) Aluminium
- B) Copper
- C) Brass
- D) Steel
- E) Iron (Wrought)

Correct Answer : Option D

15. The energy stored in a soap bubble of diameter 4 cm is nearly (surface tension of soap solution is 0.07 Nm^{-1})

- A) $8.5 \times 10^{-3} \text{ J}$
- B) $2.75 \times 10^{-2} \text{ J}$
- C) $7 \times 10^{-4} \text{ J}$
- D) $4.5 \times 10^{-4} \text{ J}$
- E) $3.15 \times 10^{-3} \text{ J}$

Correct Answer : Option C

When two different liquids of same mass but at two different temperatures 27°C and 47°C are mixed together, the resulting temperature of the mixture is 35°C . The ratio of their specific heat capacities is

- A) 1 : 3
- B) 5 : 3
- C) 3 : 2
- D) 4 : 1
- E) 2 : 7

Correct Answer : Option C

17. Two perfectly black bodies are at temperatures T and $2T$. The ratio between the wavelengths corresponding to maximum energy emission by the two black bodies is

- A) 2 : 1
- B) 1 : 2
- C) 2 : 3
- D) 3 : 2
- E) 1 : 4

Correct Answer : Option A

18. When water is heated from 0°C to 8°C , its volume

- A) first decreases upto 4°C and then increases
- B) first increases upto 4°C and then decreases
- C) increases continuously
- D) decreases continuously
- E) does not change

Correct Answer : Option A

19. The pressure of an ideal gas is proportional to the cube of its temperature (on absolute scale) in an adiabatic process. Then the value of the ratio C_p/C_v is

- A) $\frac{7}{5}$
- B) $\frac{5}{3}$
- C) $\frac{4}{3}$
- D) $\frac{3}{2}$
- E) $\frac{7}{3}$

Correct Answer : Option D

20. The average kinetic energy per molecule of an ideal gas at 27°C is E . The temperature of the gas at which the average kinetic energy per molecule will be $2E$ is

- A) 127°C
- B) 227°C
- C) 327°C
- D) 400°C
- E) 527°C

Correct Answer : Option C

21. The instantaneous displacement of a particle executing simple harmonic motion is given by $x = 2(\cos \pi t + \sin \pi t)$. The amplitude of oscillation is

- A) $3\sqrt{2}$
- B) 4
- C) $4\sqrt{2}$

D) $2\sqrt{2}$

E) $8\sqrt{2}$

Correct Answer : Option D

22. The velocity of a travelling plane wave given by $y = 10^{-2} \sin\left(200t - \frac{x}{5}\right) m$, is

A) 10 ms^{-1}

B) 500 ms^{-1}

C) 400 ms^{-1}

D) 5 ms^{-1}

E) 1000 ms^{-1}

Correct Answer : Option E

23. When a glass rod is rubbed with silk thread, it loses 1000 electrons. Then the charge on the glass rod is (electronic charge $e = 1.6 \times 10^{-19} \text{ C}$)

A) $+1.6 \times 10^{-16} \text{ C}$

B) $-1.6 \times 10^{-19} \text{ C}$

C) $-1.6 \times 10^{-13} \text{ C}$

D) $+1.6 \times 10^{-19} \text{ C}$

E) $-1.6 \times 10^{-15} \text{ C}$

Correct Answer : Option A

24. In bringing a proton towards another proton, the electrostatic potential energy of the system

A) decreases

B) increases

C) becomes zero

D) first increases and then decreases

E) remains the same

Correct Answer : Option B

25. A parallel plate capacitor with a dielectric medium of dielectric constant 1.5 has a capacitance of C. If the dielectric is removed, then the capacitance of the capacitor becomes

A) $\frac{3}{2} C$

B) $\frac{1}{3} C$

C) $\frac{2}{3} C$

D) C

E) $\frac{C}{2}$

Correct Answer : Option C

- 26.** When n identical cells are connected in parallel, they give
- A) less current
 - B) more current
 - C) less voltage
 - D) more voltage
 - E) variable voltage and variable current

Correct Answer : Option B

- 27.** Resistivity of a conductor increases with
- A) increase in its length
 - B) decrease in its length
 - C) increase in its area of cross-section
 - D) decrease in its area of cross-section
 - E) increase in its temperature

Correct Answer : Option E

- 28.** Kirchhoff's junction rule is based on conservation of
- A) charge
 - B) energy
 - C) both energy and charge
 - D) angular momentum
 - E) linear momentum

Correct Answer : Option A

- 29.** The magnetic force acting on a charged particle carrying a charge $3\mu\text{C}$ in a magnetic field of 5 T acting in y -direction, when the particle velocity is $(\hat{i} + \hat{j}) \times 10^5\text{ ms}^{-1}$ is
- A) 0.5 N in $+x$ direction
 - B) 0.2 N in $+y$ direction
 - C) 2 N in $-x$ direction
 - D) 1.5 N in $-z$ direction
 - E) 1.5 N in $+z$ direction

Correct Answer : Option E

- 30.** The magnetic moment μ associated with a charged particle carrying charge q moving in a circle of radius a with uniform speed v is
- A) qva
 - B) $\frac{qva}{4}$
 - C) $\frac{qva}{2}$
 - D) $\frac{qva}{16}$

E) $\frac{qva}{8}$

Correct Answer : Option C

31. For a paramagnetic material, the magnetic susceptibility χ_m is

- A) small, positive and varies inversely with temperature
- B) small, negative and temperature independent
- C) small, positive and temperature independent
- D) very large, negative and temperature dependent
- E) very large, positive and temperature independent

Correct Answer : Option A

32. An alternating current having peak value 14.14 A is used to heat a metal wire. The value of the direct current i required to produce the same heating effect in the same wire is

- A) 0.707 A
- B) 28.28 A
- C) 7.07 A
- D) 10 A
- E) 14 A

Correct Answer : Option D

33. The number of windings in the primary and secondary of a transformer are 100 and 2000 respectively. If 50 V a.c is applied to the primary, the potential difference across the secondary is

- A) 2000 V
- B) 1000 V
- C) 500 V
- D) 1500 V
- E) 2500 V

Correct Answer : Option B

34. The correct order of arrangement of electromagnetic waves according to their wavelengths is

- A) Gamma rays < AM radio waves < FM radio waves < Micro waves
- B) Micro waves < AM radio waves < FM radio waves < Gamma rays
- C) Gamma rays < Micro waves < AM radio waves < FM radio waves
- D) Gamma rays < Micro waves < FM radio waves < AM radio waves
- E) AM radio waves < FM radio waves < Gamma rays < Micro waves

Correct Answer : Option D

An ink mark is made on a piece of paper and a glass slab of thickness t and refractive index

35. μ is placed on it. If the image of the ink mark appears to be at a distance of x from the top surface of the slab, then the value of x is

- A) μt
- B) $\frac{t}{\mu}$
- C) $\frac{\mu}{t}$
- D) $\frac{\mu-1}{t}$

E) $\frac{t}{\mu-1}$

Correct Answer : Option B

36. If the ratio of amplitudes of two light waves is 2 : 1, then the ratio between the intensities of the two waves is

- A) 4 : 1
- B) 1 : 1
- C) 1 : 2
- D) 1 : 4
- E) 2 : 1

Correct Answer : Option A

37. In Young's double slit experiment, to change the bandwidth from β to $\frac{\beta}{4}$ without changing the experimental setup, the wavelength of light λ used must be changed to

- A) 4λ
- B) 16λ
- C) $\frac{\lambda}{4}$
- D) $\frac{\lambda}{16}$
- E) 8λ

Correct Answer : Option C

38. If the speed of a moving particle is decreased by 1%, the de Broglie wavelength of the wave associated with it

- A) decreases by 1%
- B) increases by 1%
- C) decreases by 2%
- D) increases by 2%
- E) decreases by 5%

Correct Answer : Option B

39. The photoelectric work function for a photosensitive material is 5.2 eV. The energy of the incident radiation for which the stopping potential is 6 V is

- A) 1.2eV
- B) 5.6eV
- C) 6eV
- D) 10eV
- E) 11.2eV

Correct Answer : Option E

40. When the hydrogen atom is excited from the ground state,

- A) potential energy increases but kinetic energy decreases
- B) both potential energy and kinetic energy decrease
- C) both potential energy and kinetic energy increase
- D) potential energy decreases but kinetic energy increases
- E) there is no change in the total energy

Correct Answer : Option A

41. In a nuclear decay, after the emission of one α -particle and one β -particle

- A) atomic number remains unchanged
- B) mass number is reduced by 4 units
- C) mass number is reduced by 8 units
- D) mass number increases by 4 units
- E) atomic number is increased by 2 units

Correct Answer : Option B

42. If nuclear radius of ${}_{52}^{125}\text{Te}$ is 6 fermi, then the nuclear radius of ${}_{13}^{27}\text{Al}$ in fermi is

- A) 3.6
- B) 5
- C) 2.5
- D) 1.7
- E) 4.2

Correct Answer : Option A

43. Half-life of radon is 3.5 days. The amount of radon left out of 12 mg mass undecayed after 35 days is nearly

- A) 0.006 mg
- B) 0.012 mg
- C) 0.024 mg
- D) 0.036 mg
- E) 0.048 mg

Correct Answer : Option B

44. In a p-n junction diode, reverse biasing

- A) increases the number of majority charge carriers
- B) decreases the number of minority charge carriers
- C) increases the potential barrier
- D) decreases the potential barrier
- E) increases the number of both majority and minority charge carriers

Correct Answer : Option C

45. Which one of the following is not a semiconductor?

- A) Si
- B) Sb
- C) Ge
- D) CdS
- E) GaAs

Correct Answer : Option B

46. The number of significant figures in 0.0500L is

- A) one
- B) two
- C) three
- D) four
- E) five

Correct Answer : Option C

47. Isobars are atoms with the same

- A) atomic number
- B) mass number
- C) number of electrons
- D) number of protons
- E) number of neutrons

Correct Answer : Option B

48. The element with atomic number 111 was first named as Unununnium. What is its IUPAC name?

- A) Nobelium
- B) Bohrium
- C) Lawrencium
- D) Rontgenium
- E) Rutherfordium

Correct Answer : Option D

49. Octet rule is obeyed in

- A) SCl_2
- B) PF_5
- C) SF_6
- D) BCl_3
- E) H_2SO_4

Correct Answer : Option A

50. A particular colour of light has wavelength of 663nm. What is the energy possessed by the light? (Planck's constant = $6.63 \times 10^{-34} \text{ J s}$; Velocity of light = $3 \times 10^8 \text{ m s}^{-1}$)

- A) $6.63 \times 10^{-19} \text{ J}$
- B) $6.63 \times 10^{-20} \text{ J}$
- C) $1.5 \times 10^{-19} \text{ J}$
- D) $3.0 \times 10^{-20} \text{ J}$
- E) $3.0 \times 10^{-19} \text{ J}$

Correct Answer : Option E

51. The molar enthalpy of vaporization of water at 1 bar and 100°C is 41 kJ mol^{-1} . What is the internal energy change, when 1 mol of water is vapourised at 1 bar pressure and 100°C .

Assume water vapour as a perfect gas. ($R=8.3 \text{ J K}^{-1}\text{mol}^{-1}$)

- A) 37.9 kJ mol^{-1}
- B) 44.1 kJ mol^{-1}
- C) 34.7 kJ mol^{-1}
- D) 47.9 kJ mol^{-1}
- E) 34.9 kJ mol^{-1}

Correct Answer : Option A

52. 0.1 M HCl and 0.1 M H₂SO₄ each of volume 2 mL are mixed and the volume is made up to 6 mL by adding 2 mL of 0.01 N NaCl solution. The pH of the resulting mixture is
- A) 1.17
 - B) 1.0
 - C) 0.3
 - D) log 2 – log 3
 - E) log 3 – log 2

Correct Answer : Option B

53. Which of the following molecule has two sigma (σ) and two pi (π) bonds?
- A) N₂
 - B) C₂H₆
 - C) N₂F₂
 - D) HCN
 - E) C₂H₂Cl₂

Correct Answer : Option D

The following results were obtained in the gas phase reaction between nitric oxide and oxygen at a given temperature.

54.

[NO] ₀ / mol L ⁻¹	[O ₂] ₀ / mol L ⁻¹	Initial rate of formation of NO ₂ /mol L ⁻¹ s ⁻¹
0.30	0.30	0.096
0.60	0.30	0.384
0.30	0.60	0.192

The total order and order in [O₂] of the reaction are respectively

- A) 3 and 2
- B) 2 and 2
- C) 2 and 1
- D) 3 and 0
- E) 3 and 1

Correct Answer : Option E

55. Which of the following is an example of pseudo first order reaction?

- A) Thermal decomposition of N_2O_5 gas
- B) Decomposition of HI on gold surface
- C) Decomposition of NH_3 on platinum surface
- D) Inversion of sucrose
- E) Hydrogenation of ethene

Correct Answer : Option D

56. Which of the following changes alone would cause increase in the value of equilibrium constant of the reaction? $\text{PCl}_5(\text{g}) \rightleftharpoons \text{PCl}_3(\text{g}) + \text{Cl}_2(\text{g})$; $\Delta H > 0$.

- A) Increasing the volume of the reaction vessel
- B) Decreasing the volume of the reaction vessel
- C) Addition of catalyst to equilibrium mixture
- D) Addition of $\text{PCl}_3(\text{g})$ to the equilibrium mixture
- E) Increasing the temperature

Correct Answer : Option E

57. For the gas phase homogeneous equilibrium, $2\text{X}(\text{g}) \rightleftharpoons 2\text{Y}(\text{g}) + \text{Z}(\text{g})$, K_C at 400K is $1 \times 10^{-3} \text{ mol L}^{-1}$. What is the value of K_P for the equilibrium at 400K?

$$(R = 0.082 \text{ L atm K}^{-1}\text{mol}^{-1})$$

- A) $1 \times 10^{-3} \text{ atm}$
- B) $3.16 \times 10^{-4} \text{ atm}$
- C) $4.24 \times 10^{-4} \text{ atm}$
- D) $3.28 \times 10^{-2} \text{ atm}$
- E) $1.28 \times 10^{-2} \text{ atm}$

Correct Answer : Option D

58. Which of the following pair of aquated first transition metal ions have the same colour?

- A) Cr^{3+} , Mn^{3+}
- B) Ti^{3+} , Cu^{2+}
- C) Fe^{2+} , Co^{2+}
- D) Fe^{2+} , Cu^{2+}
- E) Fe^{3+} , Co^{3+}

Correct Answer : Option A

59. For the reaction $3\text{Fe}_{(s)} + 2\text{O}_{2(g)} \rightarrow \text{Fe}_3\text{O}_{4(s)}$, $\Delta S = -600 \text{ J K}^{-1}\text{mol}^{-1}$ at 300K and $\Delta H = -1650 \text{ kJ mol}^{-1}$. What is the value of free energy change for the reaction at 300K?
- A) -1470 J mol^{-1}
B) -1830 J mol^{-1}
C) $-147.02 \text{ kJ mol}^{-1}$
D) $-1830 \text{ kJ mol}^{-1}$
E) $-1470 \text{ kJ mol}^{-1}$

Correct Answer : Option E

60. In which of the following aqueous solution of salt, pH is independent of concentration of the salt?
- A) Ammonium chloride
B) Ferric chloride
C) Ammonium acetate
D) Sodium acetate
E) Ammonium sulphate

Correct Answer : Option C

The values of X, Y and Z in the following chemical equation

61. $\text{S}_8 + X \text{HNO}_3 (\text{conc.}) \rightarrow Y \text{H}_2\text{SO}_4 + X \text{NO}_2 + Z \text{H}_2\text{O}$
are respectively

- A) 24, 4, 8
B) 36, 6, 18
C) 48, 8, 24
D) 48, 8, 16
E) 24, 8, 12

Correct Answer : Option D

62. Which of the 3d block element has the minimum melting point?
- A) Ti
B) Fe
C) Cr
D) Mn
E) Ag

Correct Answer : Option E

63. Iron does not exhibit ----- oxidation state.
- A) +6
B) +4
C) +3
D) +5
E) +2

Correct Answer : Option D

64. The correct electronic configuration of Uranium (Z=92) is

- A) $[\text{Rn}] 5f^8 6d^1 7s^2$
- B) $[\text{Rn}] 5f^4 6d^0 7s^2$
- C) $[\text{Rn}] 5f^8 6d^3 7s^0$
- D) $[\text{Rn}] 5f^4 6d^1 7s^1$
- E) $[\text{Rn}] 5f^5 6d^1 7s^0$

Correct Answer : Option A

65. Which one of the following is an outer orbital complex?

- A) $[\text{Co}(\text{NH}_3)_6]^{3+}$
- B) $[\text{Fe}(\text{CN})_6]^{3-}$
- C) $[\text{CoF}_6]^{3-}$
- D) $[\text{Co}(\text{C}_2\text{O}_4)_3]^{3-}$
- E) $[\text{Fe}(\text{NH}_3)_6]^{3+}$

Correct Answer : Option C

66. Conformational isomerism is not possible in

- A) ethane
- B) n-butane
- C) 2,3-dimethylbutane
- D) cyclohexane
- E) ethene

Correct Answer : Option E

67. When sodium nitroprusside is added to sodium fusion extract the presence of sulphur is indicated by the formation of a violet coloured complex. Its formula is

- A) $[\text{Fe}(\text{CN})_5(\text{NO})(\text{SO}_4)]^{4-}$
- B) $[\text{Fe}(\text{CN})_5\text{NOS}]^{4-}$
- C) $[\text{Fe}(\text{CN})_5(\text{NO}_2)(\text{SO}_4)]^{3-}$
- D) $[\text{Fe}(\text{CN})_5(\text{NO}_3)(\text{SO}_4)]^{3-}$
- E) $[\text{Fe}(\text{CN})_5(\text{NO})(\text{SO}_4)]^{4-}$

Correct Answer : Option B

68. When n-hexane is heated to 773K at 10-20 atmosphere pressure in the presence of Cr_2O_3 , benzene is formed. This reaction is called

- A) pyrolysis
- B) refining
- C) reforming

- D) cracking
- E) isomerisation

Correct Answer : Option C

69. The decreasing order of reactivity of butyl bromides in S_N2 reaction is

- A) $(CH_3)_3CBr > CH_3CH_2CH_2CH_2Br > CH_3CH(CH_3)CH_2Br > CH_3CH_2CH(Br)CH_3$
- B) $CH_3CH_2CH_2CH_2Br > CH_3CH(CH_3)CH_2Br > (CH_3)_3CBr > CH_3CH_2CH(Br)CH_3$
- C) $(CH_3)_3CBr > CH_3CH_2CH(Br)CH_3 > CH_3CH(CH_3)CH_2Br > CH_3CH_2CH_2CH_2Br$
- D) $CH_3CH_2CH_2CH_2Br > (CH_3)_3CBr > CH_3CH_2CH(Br)CH_3 > CH_3CH(CH_3)CH_2Br$
- E) $CH_3CH_2CH_2CH_2Br > CH_3CH(CH_3)CH_2Br > CH_3CH_2CH(Br)CH_3 > (CH_3)_3CBr$

Correct Answer : Option E

70. Which of the following is the most acidic compound?

- A) *p*-Nitrophenol
- B) *o*-Nitrophenol
- C) *o*-Cresol
- D) *p*-Cresol
- E) Phenol

Correct Answer : Option A

71. When propanoic acid is treated with bromine and red phosphorus in aqueous medium, 2-bromopropanoic acid is formed. This reaction is known as

- A) Kolbe reaction
- B) Wurtz reaction
- C) Hell-Volhard -Zelinsky reaction
- D) Etard reaction
- E) Wurtz-Fittig reaction

Correct Answer : Option C

72. Which of the following groups is deactivating *ortho-para* directing in aromatic electrophilic substitution?

- A) $-NO_2$
- B) $-OCH_3$
- C) $-CH_3$
- D) $-Cl$
- E) $-CHO$

Correct Answer : Option D

73. Gatterman reaction is used to convert benzene diazonium chloride to

- A) benzene
- B) nitrobenzene
- C) phenetole

- D) phenol
- E) chlorobenzene

Correct Answer : Option E

74. The correct increasing order of basic strength is

- A) $\text{NH}_3 < \text{C}_2\text{H}_5\text{NH}_2 < \text{C}_6\text{H}_5\text{NH}_2 < \text{C}_6\text{H}_5\text{CH}_2\text{NH}_2$
- B) $\text{C}_6\text{H}_5\text{NH}_2 < \text{NH}_3 < \text{C}_6\text{H}_5\text{CH}_2\text{NH}_2 < \text{C}_2\text{H}_5\text{NH}_2$
- C) $\text{C}_6\text{H}_5\text{NH}_2 < \text{C}_6\text{H}_5\text{CH}_2\text{NH}_2 < \text{NH}_3 < \text{C}_2\text{H}_5\text{NH}_2$
- D) $\text{C}_6\text{H}_5\text{CH}_2\text{NH}_2 < \text{NH}_3 < \text{C}_2\text{H}_5\text{NH}_2 < \text{C}_6\text{H}_5\text{NH}_2$
- E) $\text{C}_6\text{H}_5\text{NH}_2 < \text{NH}_3 < \text{C}_2\text{H}_5\text{NH}_2 < \text{C}_6\text{H}_5\text{CH}_2\text{NH}_2$

Correct Answer : Option B

75. Animal starch is

- A) glycogen
- B) lactose
- C) cellulose
- D) amylase
- E) maltose

Correct Answer : Option A