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MM: 720

Fortnightly Test for NEET-2026\_RM(P3)\_FT-03C

Time: 180 Min.

**Topics Covered:** 

Physics: Work, Energy & Power, System of Particles & Rotational Motion Chemistry: Chemical Bonding and Molecular Structure, Thermodynamics

Botany: Biological Classification-II: (from Cyanobacteria to Lichens), Morphology of Flowering Plants

Zoology: Breathing & Exchange of Gases-II: (Upto disorders), Body Fluids & Circulation

### General Instructions:

Duration of Test is 3 hrs.

The Test consists of 180 questions. The maximum marks are 720.

There are four parts in the question paper consisting of Physics, Chemistry, Botany and Zoology having 45 questions in each part of equal

Each question carries +4 marks. For every wrong response, -1 mark shall be deducted from the total score. Unanswered/unattempted questions will be given no marks.

Use blue/black ballpoint pen only to darken the appropriate circle.

Mark should be dark and completely fill the circle.

Dark only one circle for each entry.

Dark the circle in the space provided only.

Rough work must not be done on the Answer sheet and do not use white fluid or any other rubbing material on the Answer sheet.

## PHYSICS

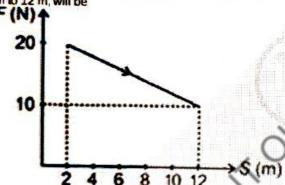
- **1.** A particle moves from point  $(\hat{i} + \hat{j})$  m to a point  $(6\hat{i} 2\hat{j})$  m under the action of force  $(10\hat{i} 2\hat{j})$  N. The work done by the force is
  - (1) 8 J
  - (2) 56 J
  - (3) 64 J
  - (4) Zero
- A: Internal forces on a system may increase kinetic energy (CG-00" of the system.
  - R : Internal forces on a system cannot change net linear momentum of the system.
  - (1) Both Assertion & Reason are true and the reason is the correct explanation of the assertion
  - (2) Both Assertion and Reason are false statements
  - (3) Assertion is true statement but Reason is false
  - (4) Both Assertion & Reason are true but the reason is not the correct explanation of the assertion

- A block of mass m is suspended through a spring of spring constant k and is in equilibrium. A sharp blow gives the block an initial upward velocity v. How far from the equilibrium position, the block comes to an instantaneous rest?
  - (1)  $v\sqrt{\frac{m}{2k}}$
  - (2)  $v\sqrt{\frac{2m}{k}}$
  - 3) v√<u>m</u> ČC-001
    - €0-001 CC-
      - CC-001 CC-001
  - $(4) \ \frac{v}{2} \sqrt{\frac{m}{k}}$
- A force  $\vec{F} = \left(x\hat{i} + 2y\hat{j}\right)$  N is applied on an object of mass
  - 10 kg. Force displaces the object from position A(1, 0) m to position B(3, 3) m then the work done by the force is (x and y are in meter)
  - (1) 8 J
  - (2) 5 J
  - (3) 13 J
  - (4) 16 J

- A: Work done by spring force is always positive.
   R: Spring force always acts opposite to the displacement of particle from any position.
  - (1) Both Assertion & Reason are true but the reason is not the correct explanation of the assertion
  - (2) Both Assertion and Reason are false statements
  - (3) Both Assertion & Reason are true and the reason is the correct explanation of the assertion
  - (4) Assertion is true statement but Reason is false
- A bob of mass 'm' is rotated in a vertical circular path with the help of an ideal string attached to it. Work done by tension on bob is
  - (1) Zero
  - (2) Positive

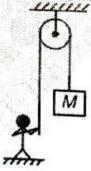
CC-001

- (3) Negative
- (4) May be positive, negative or zero
- The force-displacement graph of a body is as shown in figure. The work done by force in displacing the body from 2 m to 12 m, will be



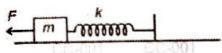
- (1) 200 J
- (2) 150 J
- (3) 100 J
- (4) 175 J
- 8. The kinetic energies of two similar cars A and B are 100 J and 225 J respectively. On applying breaks, car A stops after 1000 m and car B stops after 1500 m. If  $F_A$  and  $F_B$  are the forces applied by the breaks on cars A and B respectively, then the ratio of  $F_B$  is
  - $(1) \frac{1}{2}$
  - $(2) \frac{2}{3}$
  - $(3) \frac{1}{3}$
  - $(4)\frac{1}{3}$

- 9. For a simple pendulum of length 1 m and mass of bob 2 kg has maximum angular displacement of  $\frac{\pi}{3}$  rad, then is maximum kinetic energy is
  - (1) 2 J
  - (2) 5 J
  - (3) 10 J
  - (4) 25 J
- A force of 10 N is applied on a 5 kg mass at rest. The work done by the force in first two second will be
  - (1) 20 J
  - (2) 40 J
- CC-001 (3) 30 CC-00
  - (4) Zero
  - 11. A force acts on a 2 kg object such that its position is given as a function of time as  $x ext{ (m)} = 3t^2 + 5$ . What is the work done by this force in first 5 seconds?
    - (1) 850 J
    - (2) 900 J
    - (3) 950 J
    - (4) 875 J
  - 12. If the man shown in the figure below starts pulling the string with a rate of 2 m/s<sup>2</sup> then work done by tension on the block in 2 seconds will be [Given M = 5 kg]



- (1) 120 J
- (2) 240 J
- CC-001 (3) 300 3 C-001
  - (4) 20 J
  - 13. In a conservative field, the potential energy U as a function of position x is given as  $U = x^2 + x + 3$ , then the corresponding conservative force is given by
    - (1) 2x + 1
    - (2) -2x + 1
    - (3) 2x + 3
    - (4) -2x 1

- A shatt rotating at 3000 rpm is transmitting a power of 3.14 kW. The magnitude of driving torque is
  - (1) 6 Nm
  - (2) 10 Nm
  - (3) 15 Nm
  - (4) 22 Nm
- 15. A block of mass m is connected to a spring of force constant k. Initially the block is at rest and spring is at its natural length. A constant force F is applied horizontally towards left. The maximum elongation in the spring is given by



- (1)  $\frac{F}{5.K}$
- (2)  $\frac{F}{K}$
- (3)  $\frac{F}{6K}$
- (4)  $\frac{2F}{K}$
- 16. The average power required by the engine of car of mass 1000 kg to accelerate it from rest to a speed of 72 km/h in 20 s is
  - (1) 10 kW
  - (2) 1 kW
  - (3) 100 kW
  - (4) 1000 kW
- 17. Which among the following relations is correct?
  - (1) 1 kW h =  $3.6 \times 10^3$  J
  - (2) 1 hp = 746 W
  - (3) 1 kcal = 4.2 J
  - (4) 1 J = 4.2 cal
- Statement-I: Work done by conservative force on a body is independent of path followed by the body.
   Statement-II: Work done by a conservative force around a closed path is zero.
  - (1) Both statements are correct
  - (2) Only statement A is correct
  - (3) Only statement B is correct
  - (4) Both statements are incorrect
- Negative of work done by conservative forces is equal to change in
  - (1) Potential energy
  - (2) Kinetic energy
  - (3) Mechanical energy
  - (4) Both (2) and (3)

- 20. A constant torque of 300 N m turns a wheel. If angular velocity of wheel after 4 s starting from rest is 12 rad/s, then moment of inertia of the wheel will be
  - (1) 300 kg m<sup>2</sup>
  - (2) 100 kg m<sup>2</sup>
  - (3) 200 kg m<sup>2</sup>
  - (4) 50 kg m<sup>2</sup>
- 21. On a frictionless horizontal surface, a ball of mass m moving with speed v collides elastically with another ball of equal mass m which is initially at rest. After collision, the first ball moves at an angle of 30° to its initial direction. The kinetic energy of second ball after the collision is





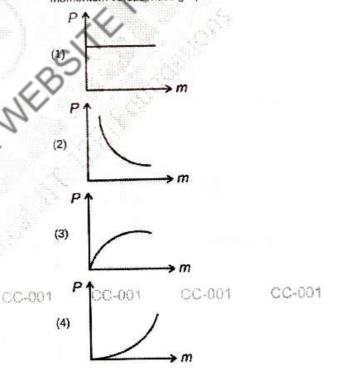
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(3) 
$$\frac{1}{8}mv^2$$

$$(4) \frac{1}{3} mv^2$$

22. If kinetic energy of a body remains constant, then momentum versus mass graph is



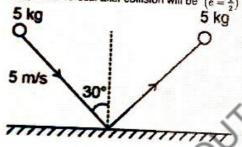
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- 23. Two balls moving with speed 20 m/s and 10 m/s on a straight road in opposite direction collide head on. If coefficient of restitution is \(\frac{1}{2}\), then relative velocity of separation between the ball will be
  - (1) 20 m/s
  - (2) 10 m/s
  - (3) 30 m/s
  - (4) 15 m/s
- 24. A ball of mass m<sub>1</sub> is moving with speed u towards another stationary ball of mass m<sub>2</sub>. After collision ball of mass m<sub>1</sub> comes to rest and ball of mass m<sub>2</sub> starts moving with speed v. The coefficient of restitution is
  - (1) = CC-001

CC-001

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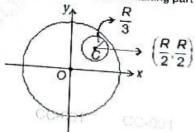
- (2) mg
- (3) (=)2
- (4) (m) 2
- **25.** A ball of mass 5 kg is projected at angle 30° with the vertical as shown in figure. The angle at which ball will go with respect to vertical after collision will be  $\left(e = \frac{1}{2}\right)$



- (1)  $\tan^{-1}\left(\frac{1}{\sqrt{2}}\right)$
- (2) tan-1(2)
- (3)  $\tan^{-1}\left(\frac{2}{\sqrt{3}}\right)$
- (4) tan-1 ( 1)01

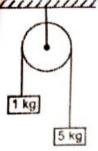
- A: It is harder to open the door if we apply force near the hinge.
  - R:  $\vec{r} = \vec{r} \times \vec{F}$ , where symbols have their usual meaning.
  - (1) Both Assertion & Reason are true and the reason is the correct explanation of the assertion
  - (2) Both Assertion & Reason are true but the reason is not the correct explanation of the assertion
  - (3) Assertion is true statement but Reason is false
  - (4) Both Assertion and Reason are false statements

- 27. Two particles of masses 2 kg and 4 kg are approaching each other with an acceleration of 1 ms<sup>-2</sup> and 2 ms<sup>-2</sup> respectively, on smooth horizontal surface. The acceleration of centre of mass of system is
  - $(1) 1 \text{ ms}^{-2}$
  - (2) Zero
  - (3) 2 ms<sup>-2</sup>
  - (4) 1.5 ms<sup>-2</sup>
- 28. The linear density of a thin rod of length 1 m is given by expression  $\lambda = (1 + 2x)$ , where x is distance from its one end. What is the distance of centre of mass from this end?
- CC-001 (1) 5 mCC-001
  - (2)  $\frac{7}{12}$  m
  - (3)  $\frac{1}{3}m$
  - $(4) \frac{4}{5}m$
  - 29. Two objects of masses 2 kg and 4 kg are placed at positions  $(3\hat{i}+2\hat{j})$  m and  $(2\hat{j})$  m respectively. The position of centre of mass is
    - (1)  $(3\hat{i} + 2\hat{j})$  m
    - (2)  $(\hat{i} + 2\hat{j})$  m
    - (3)  $(2\hat{i} + 2\hat{j})$  m
    - (4) (3i + j) m
  - 30. A disc of mass 9m and radius R is placed in x-y plane as shown in figure. A small disc of radius  $\frac{R}{3}$  is removed from it. The centre of mass for remaining part is



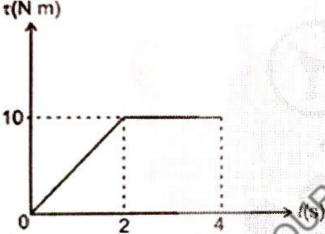
- (1)  $\left(-\frac{R}{16}, \frac{R}{16}\right)$
- (2)  $\left(\frac{-R}{10}, \frac{-R}{16}\right)$
- (3)  $\left(-\frac{R}{2}, -\frac{R}{2}\right)$
- (4)  $\left(\frac{-R}{2}, \frac{R}{2}\right)$

The acceleration of centre of mass of system shown in the figure is (Assume pulley and strings are ideal)



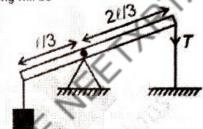
- (1)  $\frac{2y}{0}$
- (2) Zero : C-001
- (3)  $\frac{4y}{9}$
- (4) g
- **32.** The torque ( $\tau$ ) acting on a flywheel varies with time (t) as shown in the figure. The change in angular momentum in time interval t=0 to t=2 s is

CG-001



- (1) 5 N m s
- (2) 10 N m s
- (3) 20 N m s
- (4) 30 N m s
- The radius of gyration of a uniform circular disc of radius a, rotating about an axis perpendicular to the plane and passing through its centre of mass, is
  - (1)  $\frac{a}{\sqrt{3}}$
  - (2)  $\frac{a}{2}$
  - (3)  $\frac{a}{\sqrt{2}}$
  - (4) <sup>a</sup>/<sub>3</sub>

- **34.** A particle of mass 5 kg is moving with uniform speed  $3\sqrt{2}$  m/s in xy plane along the line y = x. The magnitude of its angular momentum about origin is
  - (1) 40 units
  - (2) 60 units
  - (3) Zero
  - (4) 40√2 units
- 35. A couple acting on an isolated body produces
  - (1) Rotational motion without translational motion
  - (2) Translational motion without rotational motion
  - (3) Both translational motion and rotational motion
- CC-001 (4) Neither translational motion nor rotational motion
  - 36. A light rod of length f is at rest about a smooth hinge using a 10 kg block and a light thread as shown. The tension in the string will be



- m = 10 kg
- (1) 100 N
- (2) 75 N
- (3) 50 N
- (4) 45 N
- 37. The instantaneous angular position of a point on a rotating wheel is given by the equation  $\theta(t) = 2t^3 6t^2$ . The torque on the wheel becomes zero at
  - (1) t = 2 s
  - (2) t = 1 s
  - (3) t = 0.2 s
  - (4) t = 0.25 s
  - OC-001 CC-001 CC-001 The torque of force  $\vec{F} = 2\hat{i} - 3\hat{j} + 4\hat{k}$  acting at a point  $\vec{r} = 3\hat{i} + 2\hat{j} + 3\hat{k}$ , about the origin is
  - (1)  $6\hat{i} 6\hat{j} + 12\hat{k}$
  - (2)  $-6\hat{i} + 6\hat{j} 12\hat{k}$
  - (3)  $17\hat{i} 6\hat{j} 13\hat{k}$
  - $(4) -17\hat{i} + 6\hat{j} + 13\hat{k}$

- 39. The value of  $\frac{K^2}{R^3}$  for a solid sphere with radius R and radius of gyration K about an axis along its diameter is
  - (1) 1
  - $(2) \frac{2}{5}$
  - (3) =
  - (4) 1
  - 40. Given below are two statements:

Statement I: Centre of mass of any object always coincide with centre of gravity.

Statement It: Centre of gravity is the point where total gravitational torque on the body is zero.

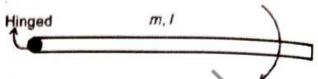
In the light of the above statements, choose the most C-001 (3)  $\sqrt{\frac{2g}{f}}$  appropriate answer from the options given below.

- (1) Both statements I and II are correct
- (2) Both statements I and II are incorrect
- (3) Statement I is correct but II is incorrect
- (4) Statement I is incorrect but II is correct
- 41. Match the Column I with Column II

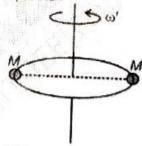
	Column I		Column
(A)	Moment of inertia of rod (m, l) about its one end.	(P)	nd <sup>†</sup>
(B)	Moment of inertial of hollow sphere (mass-m, Dia-f) about its diameter	(Q)	$\frac{2}{3}$ nd <sup>2</sup>
(C)	Moment inertia of square plate (mass m. side length I) about axis passing through its centre and perpendicular to its plane	(R)	<u>val</u> 7
(D)	Moment of inertia of cylinder (mass-m, Dia-f) about its axis	(S)	pd1

- (1) A(P); B(Q); C(R); D(S)
- (2) A(S): B(Q): C(S): D(R)
- (3) A(S); B(R); C(Q); D(P)
- (4) A(S): B(R); C(R): D(P)
- 42. A uniform rod of mass m, length / rests on a smooth horizontal surface. Rod is given a sharp horizontal impulse p perpendicular to the rod at a distance 1/4 from the center. The angular velocity of the rod will be
  - (1)
  - (2) P
  - (3)  $\frac{p}{2nd}$
  - (4) 2p

43. A uniform rod of mass m and length / is fixed at one end released from horizontal position as shown in the figure. The angular velocity of the rod when the rod makes an angle 60° with vertical is



- (1)  $\sqrt{\frac{59}{2}}$
- (2)  $\sqrt{\frac{19}{34}}$
- **(3)** √<sup>2</sup>/<sub>1</sub>CC-001
- (4)  $\sqrt{\frac{37}{4}}$
- 44. The principle used by a gymnast to increase the number of somersault, is law of conservation of
  - (1) Linear momentum
  - (2) Energy
  - (3) Mass
  - (4) Angular momentum
- 45. A disc of mass M and radius R rotates with an angular speed ω. If two point masses each of mass M are placed gently at a distance R from the centre. Then new angular speed is



- (1) 3 w
- (2) =
- CC-001(3) & CC-001
  - (4) 5 w

46. For the reaction

 $C(s) + O_2(g) \rightarrow CO_2(g)$ at constant temperature,  $\Delta H - \Delta U$  is

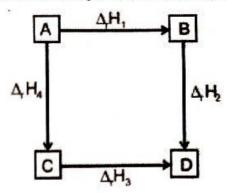
- (1) +RT
- (2) Zero
- (3) -RT
- (4) RT
- 47. What is not true about two species CN and N2?
  - (1) Both possess same bond order
  - (2) Both are isoelectronic
  - (3) Both are diamagnetic CC-001
  - (4) Both are chemically inert
- 48. Match List I with List II

	List-l Malecule		List-II Shape
a.	XeO <sub>3</sub>	(i)	Tetrahedral
b.	SiCl <sub>4</sub>	(ii)	T-Shape
c.	CIF <sub>3</sub>	(iii)	Square planar
d.	XeF <sub>4</sub>	(iv)	Trigonal pyramidal

The correct match is

- (1) a(ii), b(iii), c(iv), d(i)
- (2) a(ii), b(iv), c(iii), d(i)
- (3) a(iv), b(i), c(iii), d(ii)
- (4) a(iv), b(i), c(ii), d(iii)
- 49. Intensive property among the following is
  - (1) Volume
  - (2) Number of mole
  - (3) Pressure
  - (4) Surface area

50. Based on the diagram shown below, the correct relation is



- (1)  $\Delta_r H_1 = \Delta_r r H_2 + \Delta_r H_3 + \Delta_r H_4$
- CC-001 (2) ArrH1 ArH4 = ArH3 ArH2

CC-001

- (3)  $\Delta_r H_3 \Delta_r H_4 = \Delta_r H_1 \Delta_r H_2$
- (4)  $\Delta_r H_4 = \Delta_r H_1 = \Delta_r H_2 + \Delta_r H_3$
- 51. Consider the following statements about  $O_2^2$  ion
  - (a) Highest occupied molecular orbital is  $\pi^*$  orbital
  - (b) Bond order is one
  - (c) Diamagnetic in nature

The correct statement(s) is/are

- (1) (a) only
- (2) (b) and (c) only
- (3) (a) and (c) only
- (4) (a), (b) and (c)
- 52. Hybridization of Xe in XeOF4 is
  - $(1) so^3$
  - (2)  $so^3 d^2$
  - $(3) sp^3d^3$
  - $(4) sp^3 d$
- 53. 2 mole of an ideal gas at 127°C undergoes expansion isothermally and reversibly from 1 litre to 10 litre. The entropy change in the process is
  - (1) 38.29 J/K
- CC-001 (2) 32.94 J/KO 1

CC-001

- (3) 46.34 J/K
- (4) 44.44 J/K
- 54. The species in which resonance does not take place is
  - (1) NO3
  - (2) CO2-
  - (3) CH3O
  - (4)  $SO_4^2$

- 55. If ΔfH°(NaCl(s)), ΔsubH°(Na(s)), ΔbondH°(Cl2(g)), ΔiH°(Na) and AeaH\*(Cl(g)) are -411.2, 108.4, 242, 496 and -348.6 kJ mol-1 then ΔlatticeH°(NaCl(s)) will be
  - (1) 788 kJ mol-1
  - (2) 540 kJ mol-1
  - (3) 684 kJ mol-1
  - (4) 820 kJ mol-1
  - 56. The energy required to raise the temperature of 50 g of Cu from 35°C to 80°C (specific heat of copper is 0.39 Jg-1 °C-1)

(1) 877.53C-001

CC-001

CC-001

- (2) 438.75 J
- (3) 219,375 J
- (4) 785.6 J
- 57. Given below are two statements

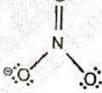
Statement I: Magnitude of work done during isothermal expansion of an ideal gas is lesser than work done during adiabatic expansion of an ideal gas.

Statement II: Initial temperature is higher than final temperature during adiabatic expansion of an ideal gas. In the light of above statements, choose the correct answer from the options given below.

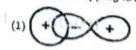
- (1) Both statements I and II are incorrect
- (2) Both statements I and II are correct
- (3) Statement I is incorrect but statement II is correct.
- (4) Statement I is correct but statement II is incorrect
- 58. Consider the following statements
  - (a) Standard molar enthalpies of formation of 'S' (rhombic) and H2(g) are zero
  - (b) Heat is a path function
  - (c) For spontaneous process AStotal is greater than zero. The correct statement(s) is/are
  - (1) (a) and (c) only
  - (2) (a), (b) and (c)
  - (3) (c) only
  - (4) (a) and (b) only

- 59. The compound which contains coordinate bond is
  - (1) MgCl<sub>2</sub>
  - (2) H2O2
  - (3) NaNO3
  - (4) CaCl<sub>2</sub>

- 60. The correct sequence of increasing covalent character is represented by
  - (1) LiCI < NaCI < BeCl2
  - (2) BeCl2 < LiCl < NaCl
  - (3) NaCl < LiCl < BeCl2
  - (4) BeCl2 < NaCl < LiCl
- 61. Δ<sub>t</sub>H° of H<sub>2</sub>O is –68 kcal, then heat of formation of OH<sup>-</sup> is
  - (1) +54.3 kcal mol-1
  - (2) -54.3 kcal mol-1
- CC-001 (3) -34 kçal mol
  - (4) +68 kcal mol
  - 62. Heat of neutralisation of a weak dibasic acid is found to be -25.2 kcal mol-1. The enthalpy of ionisation of weak acid will be
    - (1)  $2.2 \text{ kcal mol}^{-1}$
    - (2) 13.3 kcal mol<sup>-1</sup>
    - (3) 6.2 kcal mol-1
    - (4) 1.5 kcal mol-1
  - 63. Formal charge on nitrogen in the given species is :0:



- (1) Zero
- (2) -1
- (3) + 1
- (4) + 2
- 64. Positive overlapping is shown by









porti	nightly Test for NEET-2026_RM(P3)_FT-03C		
	Which of the following compound is not an exception to octet rule?	70.	Which of the following is correct for a cyclic process? (a) $\Delta H = 0$ (b) $W = 0$ (c) $\Delta S = 0$
	(1) PCl <sub>3</sub>		(d) $\Delta U = 0$
	(2) SF <sub>6</sub>		(1) Only (a) and (d)
	(3) AICI <sub>3</sub>		(2) Only (b)
	(4) H <sub>2</sub> SO <sub>4</sub>		(3) Only (a), (c) and (d)
66.	Two moles of an ideal gas expanded spontaneously into		(4) Only (c)
	vacuum. The work done will be		Third law of thermodynamics states that
	(1) Zero		The entropy of any pure crystalline substance approaches zero at absolute zero temperature
	(2) 4 J		approaches zero at absolute zero temporase in the
	(a) 9 J	GG-00	(2) For an isolated system, entropy will increase in the direction of spontaneity
67	(4) 10 J  Given below are the two statements.  Statement I: A polyatomic molecule can have zero dipole		If a reaction takes place in several steps then its  (3) standard reaction enthalpy is the sum of the standard enthalpies of the intermediate steps
	Statement II: It is necessary for a polyatomic molecule to		(4) The energy of an isolated system is constant
	have linear geometry to have dipole moment zero In light of above statements, choose the correct answer from		. Number of 90° bond angle(s) in PCI5 is
	the options given below.		(1) Zero
	(1) Statement I is correct but statement II is incorrect		(2) 3·
	(2) Statement I is incorrect but statement II is correct		(3).5
	(3) Both statement I and statement II are correct	1	(4) 6
	(4) Both statement I and statement II are incorrect	4	3. If the equilibrium constant of a reaction is $2 \times 10^3$ at 2
68	<ol> <li>For monoatomic ideal gas the value of the ratio of Cp and</li> </ol>	1	then the standard Gibbs free energy change for the reac

Cyis

 $(1) \frac{5}{3}$ 

(2) 5

 $(3) \frac{4}{3}$ 

 $(4)^{\frac{7}{5}}$ 

69. If bond dissociation enthalpies

+ Br2(g) - 2HBr(g), is

(1) -137 kJ

(2) -109 kJ (3) -259 kJ

(4) 259 kJ

respectively are 435 kJ  $\text{mol}^{-1}$ , 192 kJ  $\text{mol}^{-1}$  and 368 kJ

mol-1, then the enthalpy change during the reaction H2(g)

2.	Number of 90° band angle(s) in PCI5 is
	(1) Zero
	(2) 3
	(3) 5
,	(a) 6.
/3. )	If the equilibrium constant of a reaction is $2 \times 10^3$ at $25^{\circ}$ C then the standard Globs free energy change for the reaction will be nearly
	(1) - 2.5R × 298
	(2) - 7.6R × 298
	(3) – 7.6R
i to	(4) - 5.1R × 298
74	. Maximum heat will be released in which of the following acid-base neutralisation reactions?
	(1) CH3COOH + NH4OH

(4) 10.3 kJ

76. Given below are the two statements one is labelled as assertion (A) the other is labelled as reason (R).

Assertion (A): Boiling point of HF is higher than HCI.

Reason (R): HF forms intermolecular hydrogen bond with each other.

In the light of above statements, choose the correct answer.

- Both (A) and (R) are true but (R) is not the correct (1) explanation of (A)
- (2) (A) is true but (R) is false
- (3) (A) is false but (R) is true
- (4) Both (A) and (R) are true, (R) is the correct explanation of (A)
- 77. Given below are two statement, one is Assertion (A) other is Reason (R),

Assertion (A). Enthalpy is an extensive property.

Reason (R): An extensive property is a property whose value depends on the quantity of matter present in the

In the light of above statements choose the correct answer.

- (1) Both Assertion & Reason are true and the reason is the correct explanation of the assertion
- Both Assertion & Reason are true but the reason is not (2) the correct explanation of the assertion
- (3) Assertion is true but Reason is false
- (4) Both Assertion and Reason are false
- 78. For the reaction,  $3A(g) + 3B(s) \rightarrow 3C(g)$ , if  $\Delta U^{\circ} = -20$  kJ and  $\Delta S^{\circ} = -80 \text{ JK}^{-1}$ , then value of  $\Delta G^{\circ}$  at 298 K will be
  - (1) 2.87 kJ
  - (2) 3.84 kJ
  - (3) 5.67 kJ
  - (4) 1.28 kJ
- 79. According to molecular orbital theory, both o-bond and mbond are present in
  - $(1) B_2$
  - $(2) H_2$
  - (3) N<sub>2</sub>
  - (4) C2
- 80. Which among the following has maximum bond angle?
  - (1) CO2-
  - (2) CO2
  - (3) CH<sub>4</sub>
  - (4) CCI4

- 81. The correct order of covalent bond length is
  - (1) C-H>C-O>O-H>N-O
  - (2) C-O>N-O>C-H>O-H
  - (3) C-H>O-H>N-O>C-O
  - (4) O-H>C-H>C-O>N-O
- 82. Which of the following will result in zero overlap if molecular axis is z-axis?
  - (1) 2s 2s
  - (2)  $2p_X 2p_X$
  - (3)  $2p_X 2p_Y$
  - $(4) 2p_z 2p_z$

CC-001

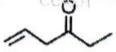
83. Given below are the two statements

Statement I: PCI5 contains two axial bonds and three equatorial bonds.

Statement II: In PCI<sub>5</sub>, equatorial bonds are slightly longer

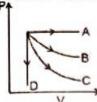
than axial bonds. In light of the above statements, choose the correct answer

- (1) Both statement I and statement II are correct
- (2) Both statement I and statement II are incorrect
- (3) Statement I is correct but statement II is incorrect
- (4) Statement I is incorrect but statement II is correct
- 84. For which of the following processes, entropy change is negative?
  - (1) Evaporation of water
  - (2) Sublimation of camphor
  - (3) Condensation of lodine vapours
  - (4) Melting of ice
- In SO<sub>4</sub><sup>2-</sup> ion, bond order of S O bond is
  - (1) 1.33
  - (2) 1.5
  - (3) 1.25
  - (4) 1.75
- Total number of  $\sigma$  bonds in the following compound is



- (1) 16
- (2) 15
- (3)14
- (4) 18

87. Match graphs in List-1 with process in list-2 according to following P-V diagram.



	List-1		List-2
(a)	A	(i)	Isothermal
(b)	В	(ii)	Isochoric
(c)	C	(111)	Adiabatic
(d)	D	(iv)	Isobaric

The correct match is

- (1) (a)-(iv), (b)-(i), (c)-(iii), (d)-(ii)
- (2) (a)-(iv), (b)-(iii), (c)-(i), (d)-(ii)
- (3) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)
- (4) (a)-(iv), (b)-(ii), (c)-(iii), (d)-(i)
- 88. March molecules in List-I with hybridisation of central atom in List-II, and choose the correct match.

LIST-I
BCIn.

### List-II

- b. SICI4
- (i) sp2 (ii) sp3d
- c. SF4
- (iii) sp3d2
- d. BrF5
- (iv) sp3
- (1) a(i), b(ii), c(iii), d(iv)
- (2) a(i), b(iv), c(ii), d(iii)
- (3) a(i), b(ii), c(iv), d(iii)
- (4) a(iv), b(i), c(ii), d(iii)

- 89. If the enthalpy of hydrogenation of cyclohexene is x kJmol<sup>-1</sup> and resonance energy of benzene is – y kJmol<sup>-1</sup> then enthalpy of hydrogenation of benzene in kJmol<sup>-1</sup> will
  - (1) (-x-y)
  - (2)(-3x-y)
  - (3) (-3x + y)
  - (4)(x + y)
- 90. A diatomic molecule has net dipole moment 1.92 D and bond length 2.0 Å. The percentage ionic character of the molecule is  $(1D = 3.33 \times 10^{-30} \text{ C-m})$

CC-901

(1) 15%

CC-001

# B

- 91. Paramoecium and Plasmodium
  - (1) Both belong to the same kingdom as that of Penicillium
  - (2) Both have cilia as locomotory organs
  - (3) Both are endoparasites
  - (4) Both are unicellular protozoans
- 92. Protozoan group which possess definite region of ingestion and egestion is
  - (1) Flagellates
  - (2) Ciliates
  - (3) Sporozoans
  - (4) Amoeboids

- 93. Rhizopus, commonly called bread mould
- CG-001 (1) Has a septate mycelium C-001
  - (2) Does not produce zygospores
  - (3) Produces edible fruiting bodies
  - (4) Is a sac fungus
  - 94. Loose tissue body organisation is characteristic feature of

- (1) Monera
- (2) Protista
- (3) Fungi
- (4) Plantae

- 95. The common field mushroom and morels both are edible fungi. They both differ from each other as former
  - (1) Has cell wall
  - (2) Has septate mycelium
  - (3) Has intervening dikaryotic stage
  - (4) Produce exogenous meiospores
- 96. Sexual reproduction is absent in
  - (1) Puffballs
  - (2) Colletotrichum
  - (3) Albugo
  - (4) Yeast
- 97. In which of the following protests, their overlapping shells fit CC-001 together as in soap box?
  - (1) Diatoms
  - (2) Desmids
  - (3) Slime moulds
  - (4) Sporozoans
- 98. Fungi can be differentiated from plants in
  - (1) Being eukaryotes
  - (2) Mode of nutrition
  - (3) Having cell wall
  - (4) Having nuclear membrane
- 99. The causative agents of mumps are usually characterised
  - (1) The presence of nucleic acid protected by protein coat
  - (2) Absence of proteins
  - (3) Presence of a well defined nucleus
  - (4) Having a cell wall composed of chitin
- 100.Bovine spongiform encephalopathy is caused by
  - (1) An agent which is abnormally folded protein
  - (2) An RNA virus
  - (3) A bacteriophage
  - (4) An agent that contains RNA of low molecular weight
- 101.Under suitable conditions, slime moulds form
  - (1) Fruiting bodies
  - (2) Plasmodium
  - (3) Haploid spores
  - (4) Sporangium filled with spores

- 102. Which of the following is wrong feature w.r.t. Mycoplasma?
  - (1) They completely lack a cell wall
  - (2) They are the smallest living cells
  - (3) They can survive without oxygen
  - (4) They are pathogenic in animals only
- 103.Read the following statements and select the option that is true for them.

Statement A: Amongst all eukaryotic chlorophyll-containing organism, a few members are partially heterotrophic.

Statement B: Viruses are characterised by having an inert crystalline structure outside the living cell.

- (1) Only statement A is correct
- (2) Only statement B is correct
- (3) Both statements A and B are correct
- (4) Both statements A and B are incorrect
- 104.Amoeboid protozoans differ from all the other protozoan because they
  - (1) Use cilia for locomotion
  - (2) Have two types of nuclei
  - (3) Use flagella for movement
  - (4) Use pseudopodia for capturing prey
- 105.Identify the following figure and select the option which has correct set of features regarding the organism.



- Called Drosophila of plant kingdom
- b. Chitinous cell wall
- c. Thin walled, non-motile mitospores produced on sterigmata CC-001
  - d. Long dikaryophase
  - e. Exogenous meiospores
  - f. Sex organs present
  - (1) a, b, c, e & f
  - (2) Only a, b, c & f
  - (3) b, c, d, e & f
  - (4) Only b, c & f

### 106.Find the correct match.

- (1) Euglenoids Cellulosic cell wall
- (2) Chrysophytes Mostly photosynthetic
- (3) Slime moulds Autotrophic
- (4) Protozoans Only parasites

### 107.Sleeping sickness is caused by

- (1) Paramoecium
- (2) Amoeba
- (3) Entamoeba
- (4) Trypanosoma

# 108.Which of the following statements is incorrect regarding fungi?

- (1) It is a unique kingdom of heterotrophic organisms
- (2) They are mostly terrestrial
- (3) They prefer to grow in warm & humid places
- (4) They are always diploid with thalloid body

### 109.Choose the wrong statement.

- (1) All members of ascomycetes are multicellular
- (2) Neurospora is used extensively in biochemical and genetic work
- (3) A large number of deuteromycetes are decomposers of litter and help in mineral recycling
- (4) The cell wall of fungi is composed of chitin and polysaccharides

### 110. Which one is incorrect w.r.t. lichen?

- (1) Lichens are the symbiotic association between algae
- (2) Algal component is known as phycobiont
- (3) Algae prepare food and fungi in return provide shelter, absorb mineral nutrients and water for its partner
- (4) Lichens are very good pollution indicators as they can grow well in polluted areas

# 111. Read the following statements and choose the correct option.

- A. Gonyaulax is a red dinoflagellate.
- B. In Claviceps, plasmogamy is immediately followed by karyogamy.
- C. Alternaria asexually reproduces through conidia.
- (1) Only A
- (2) A and B only
- (3) A and C only
- (4) Only B

- 112.State true (T) or false (F) for the given statements and select the correct option.
  - (A) Fungi are heterotrophic and absorb soluble organic matter from dead substrate.
  - (B) Bladderwort and Venus fly trap are insectivorous plants and Cuscuta is a parasite.
  - (C) In Agaricus and Puccinia, mycelium is generally aseptate and coenocytic.
  - (D) Fusion of protoplasm between two motile or non-motile gametes is called plasmogamy.
  - (1) (A)T, (B)T, (C)F, (D)T
  - (2) (A)F, (B)F, (C)T, (D)F
  - (3) (A)T, (B)F, (C)T, (D)F
  - (4) (A)F, (B)T, (C)F, (D)T

### 113. Endospermous seeds are seen in

CC-001

- (1) Maize
- (2) Pea
- (3) Groundnut
- (4) Bean

### 114. The largest posterior petal in pea flowers is called

- (1) Standard
- (2) Wings
- (3) Kee
- (4) Stipule

# 115. The mode of arrangement of sepals or petals in floral bud w.r.t. other members of same whorl is known as

- (1) Aestivation
- (2) Inflorescence
- (3) Placentation
- (4) Phyllotaxy

## 116.

# $\bigoplus \oint K_{(5)} \acute{C}_{(5)} \grave{A}_{5} \underbrace{G}_{(2)}$

is the floral formula of a plant family whose one of the members is

- (1) Petunia
- -001 (2) Gloridsa 001
- CC-001
- CC-001

- (3) Indigofera
- (4) Trifolium

### 117.A small pore above the scar found on seed coat is

- (1) Micropyle
- (2) Hilum
- (3) Plumule
- (4) Tegmen

	118.ln	pinnately	compe	bnuc	leaf
--	--------	-----------	-------	------	------

- (1) Lamina is not incised
- (2) Leaflets are attached to common axis called rachis
- (3) Axil of each leaflet has bud
- (4) Leaflets are attached to the tip of petiole

### 119. Select the statements which are incorrect.

- (I) A flower is a modified leaf.
- (II) Different floral appendages are produced at successive nodes.
- (III) When a shoot tip is transformed into a flower, it is always solitary
- (IV) Apical meristem changes to lateral meristem to form flower.
- (1) (1), (1); and (12)
- CC-001
- CC-001

- (2) (II) and (III)
- (3) (III) and (IV)
- (4) (I) and (IV)
- 120.In maize seed, the outer covering of endosperm separates the embryo by a proteinaceous layer called
  - (1) Scutellum
  - (2) Pericarp
  - (3) Aleurone layer
  - (4) Coleoptile
- 121. Nucellus remains persistent in the seeds of
  - (1) Gram
  - (2) Pea
  - (3) Piper nigrum
  - (4) Maize
- 122.Identify the statement which is not correct w.r.t coconut
  - (1) They develop from monocarpellary superior ovaries
  - (2) The type of fruit is known as drupe
  - (3) They have an inner stony hard endocarp
  - (4) The mesocarp is fleshy and edible
- 123.Persistent calyx with valvate aestivation is observed in
  - (1) Onion CC-001
  - (2) Tulip
  - (3) Brinjal
  - (4) Aloe

- 124.Read the following statements and select the correct option.
  - Assertion (A): In cyrnose inflorescence the main axis is limited in growth.
  - Reason (R): In cymose inflorescence the flowers are borne in a basipetal order.
  - (1) Only (A) is true
  - (2) Both (A) and (R) are true but (R) is not the correct explanation of (A)
  - (3) Both (A) and (R) are true and (R) is the correct explanation of (A)
  - (4) Both (A) and (R) are false
- 125. Select the incorrect match from the following.
- CC-001 (1) Supflower
- Alternate phyllotaxy
- (2) Alstonia
- Palmately compound leaf
- (3) Guava
- Opposite phyllotaxy
- (4) Australian acacia Expanded petiole
- (1)(1)
- (2)(2)
- (3)(3)
- (4)(4)
- 126. Which of the following is usually not the function of root?
  - (1) Synthesis of plant growth regulators
  - (2) Absorption of water and minerals from soil
  - (3) Storage of reserve food materials
  - (4) Manufacturing of food and its transportation to aerial parts of plant
- 127. Select the incorrect one for china rose.
  - (1) Monoadelphous stamens
  - (2) Alternate phyllotaxy of leaves
  - (3) Epigynous flowers
  - (4) Twisted aestivation of petals

128.Which of the following aestivation is present in petals of Calotropis?

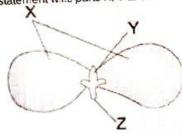








129.Refer the below given diagram and select the correct statement w.r.t. parts X, Y and Z.



- Z represents the structure that develops into (1) system on germination of seed
- (2) "Y" represents the structure that is enclosed in coleorhiza
- (3) In grasses, the structure 'X' is called as coleoptile
- 'X' represents the structures that are often fleshy and full (4) of reserve materials

130.Read the following statements (A-D).

- (A) In Dianthus and Primrose, chules are borne on central CC-001 axis and septa are absent.
- (B) Variation in the length of filaments of stamens in flower
- is seen in Salvia and mustard.

  (C) In sunflower and marigold, the placenta forms a ridge along the ventral suture of the ovary and ovules are borne
- (D) In mustard, ovary is one-chambered but it becomes two chambered due to the formation of false septum.

The correct statements are

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

131. The flowers are zygomorphic in:

- (a) Mustard
- (b) Gulmohar
- (c) Cassia
- (d) Datura

(e) Chilly Choose the correct answer from the options given below:

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

CG-001

132.Read the following statements and choose the correct

Statement (A): Leaves originate from shoot apical meristem and arranged in an acropetal order of the stem. Statement (B): In some leguminous plants, the leaf base may become swallen, which is called the pulvinus.

- (1) Only statement A is incorrect
- (2) Only statement B is incorrect
- (3) Both statements A and B are correct
- (4) Both statements A and B are incorrect

133, Which of the given plants have superior ovary with axile placentation?

- a. Tomato
- b. Gram
- c. Mustard
- d. Tulip
- e. Petunia
- (1) a and e only
- (2) a, b, c and d only
- (3) a, c, d and e only
- (4) a, d and e only

CC-001

CC-001

- 134. Which of the following statements are correct w.r.t. pneumatophores?
  - a. They grow parallel to the earth surface.
  - b. They help to get oxygen for respiration.
  - c. They are generally found in those plants which grow in swampy areas.
  - Their cells contain chlorophyll to perform photosynthesis.
  - (1) a, b and d
  - (2) b and c
  - (3) a and c
  - (4) a and d only

135.Identify the figure w.r.t. the position of floral parts on thalamus with correct example



CC-001

CC-001

	Position of floral parts on thalamus w.r.t. the ovary		Example
(1)	Epigynous		Plum (
(2)	Perigynous	-	Rose
(3)	Hypogynous	-	Mustard
(4)	Perigynous		Brinjal

- (1) (1)
- (2) (2)
- (3)(3)
- (4) (4)

ZOOLOGY

# 136.Diffusion membrane in lungs comprises:

- (1) Thin columnar epithelium of alveoli, endothelium of pulmonary capillaries and basement membrane
- Ciliated squamous epithelium of alveoli, endothelium of (2) pulmonary capillaries and basement substance between them
- Thin squamous epithelium of alveoli, endothelium of (3) alveolar capillaries and basement substance between them
- Ciliated columnar epithelium of alveoli, endothelium of (4) alveolar capillaries and basement membrane between them
- CC-137.Complete the analogy with percentage of gases transported by RBCs and select the correct option. O2:97%: CO2.

  - (1) 3%
  - (2) 70%
  - (3) 20-25%
  - (4) 7%

# a Neural signals from the pneumotaxic centre can

- (1) Reduce the duration of inspiration
- (2) Increase the duration of inspiration
- (3) Reduce the duration of only forceful expiration
- Increase the duration of expiration while reduce the (4) duration of inspiration
- 139. Which of the following is a chronic disorder in which alveolar walls are damaged and due to which respiratory surface is decreased?
  - (1) Asthma
  - (2) Emphysema
  - (3) Silicosis
  - (4) Asbestosis

- 140. Which of the following representations is false w.r.t. partial pressure of O2 and CO2 under normal physiological conditions in human?
  - (1) In alveoli, pCO2 < pO2
  - (2) In deoxygenated blood, pCO<sub>2</sub> > pO<sub>2</sub>
  - (3) In tissues, pCO2 > pO2
  - (4) In atmospheric air, pO2 < pCO2
- 141.Body of a person contains 5 L blood. What amount of O2 can be delivered by 5 L of blood to tissues under normal physiological conditions?
  - (1) 750 mL
  - (2) 500 mL
  - (3) 250 mL
  - (4) 150 mL
  - 142. Which of the following factors favours the formation oxyhaemoglobin?
    - (1) Low pO2
    - (2) High temperature
    - (3) High H<sup>+</sup> concentration
    - (4) High pH
  - 143. Solubility of CO2 in the blood is times higher than O2. Fill the blank with a suitable option.
    - (1) 120-125
    - (2) 80 100
    - (3) 20-25
    - (4) 40-70

- 144.Assertion (A): Oxygenated blood has high pH as compared to deoxygenated blood. Reason (R): Oxygenated blood has less CO2 content as compared to deoxygenated blood. In the light of above statements, choose the correct option.
  - Both (A) and (R) are true and (R) is the correct explanation of (A)
  - Both (A) and (R) are true but (R) is not the correct explanation of (A)
  - (3) Both (A) and (R) are false
  - (4) (A) is true but (R) is false
- 145. Which of the following factors primarily cannot affect the rate of diffusion of gases at alveoli?
- CC-001 (1) The reactivity of gases C-001

G-001

- (2) Solubility of the gases
- (3) Thickness of the membranes involved in diffusion
- (4) Concentration gradient of gases
- 146. The reaction mentioned below is catalysed by enzyme 'X'.

Select the correct option w.r.t. 'X'

- (1) Catalase
- (2) Peroxidase
- (3) Carbonic anhydrase
- (4) Peptidase
- 147 Process responsible for movement of oxygen from the alveoli into blood in the pulmonary capillaries is
  - (1) Facilitated diffusion
  - (2) Simple diffusion
  - (3) Active transport
  - (4) Filtration
- 148. Under normal physiological condition, during the formation of oxyhaemoglobin, about 90% saturation of Hb with O2 occurs when the pO2 is about
  - (1) 40 mm Hg

CC-001

- (2) 60 mm Hg (3) 55 mm Hg
- (4) 45 mm Hg
- 149. What is the location of primary respiratory rhythm centre in human brain?
  - (1) Pons
  - (2) Medulla oblongata
  - (3) Cerebellum
  - (4) Cerebrum

- 150.In grinding or stone breaking industries, long exposure to dust can cause serious lung damage due to
  - (1) Proliferation of fibrous tissue
  - (2) Thickening of muscles
  - (3) Accumulation of blood in alveoli
  - (4) Dilation of air pathway
- 151.Read the following statements w.r.t. humans.

  Statement A: Role of oxygen in the regulation of respiratory rhythm is quite insignificant.

  Statement B: A chemosensitive area which is present

adjacent to the respiratory rhythm centre is highly sensitive to CO<sub>2</sub> and hydrogen lons.

Choose the correct option.

- (1) Both statements A and B are correct
- (2) Both statements A and B are incorrect
- (3) Only statement A is correct
- (4) Only statement B is correct
- 152.  $Hb + O_2 \stackrel{(1)}{\rightleftharpoons} HbO_2$

Select (1) and (2) from the given options w.r.t. breathing in humans.

- (1) (1) is tissues and (2) is lungs
- (2) (1) is lungs and (2) is air present in trachea
- (3) (1) is blood and (2) is lungs
- (4) (1) is lungs and (2) is tissues
- 153.A specialized mass of tissue located in the lower left corner of the right atrium, close to the atrio-ventricular septum is
  - (1) AV bundle
  - (2) Atrio-ventricular node
  - (3) Bundle of His
  - (4) Pacemaker
- 154.The end of T-wave in standard ECG of a normal person

CC-001

- (1) Contraction of both the atria
- (2) End of ventricular systole C-001
- (3) Beginning of the ventricular systole
- (4) Initiation of the atrial contraction
- 155. Which of the following is often referred to as atherosclerosis?
  - (1) Angina
  - (2) High blood pressure
  - (3) Heart failure
  - (4) Coronary artery disease

- 156.Under normal physiological conditions, stroke volume of human heart in a non-athletic adult is
  - (1) 70 mL
  - (2) 140 mL
  - (3) 5040 mL
  - (4) 180 mL
- 157.Read the following reactions and identify A and B respectively

Prothrombin  $\xrightarrow{A}$  Thrombin

Fibrinogen  $\xrightarrow{B}$  Fibrin

Choose the correct option

- (1) Thrombokinase, Thrombin
- (2) Thromboplastin, Thrombokinase
- (3) Thrombin, Thrombokinase
- (4) Thrombokinase, Thromboplastin
- 158. Neutrophils and monocytes differ from each other in all of the following, except
  - (1) The shape of their nuclei in mature form
  - (2) Their contribution to lotal WBC content of blood
  - (3) Phagocytosis of foreign organisms
  - (4) Their cytoplasmic contents
- 159. Select the incorrect statement w.r.t. lymph.
  - (1) It is a colourless fluid containing lymphocytes.
  - (2) It is an important carrier for nutrients, hormones, etc.
  - (3) It has different mineral distribution as that present in plasma.
  - (4) Fats are absorbed through lymph in the lacteals present in the intestinal villi.
- 1.60.Proteins contribute 6-8 per cent of plasma which is numerically equal to the per cent of \_\_\_\_\_ out of the total WBCs that is present in blood. Choose the option to fill the blank correctly.
  - (1) Neutrophils
- CC-001 (2) Eosinophile
  - (3) Monocytes
  - (4) Lymphocytes

Read the following statements and select the correct option.

statement (A): Damage to chordae tendinae of semilunar valves in aorta causes back flow of blood in left ventricle. Statement (B): Closure of atrio-ventricular valves during ventricular systole generates first heart sound.

- (1) Both statements (A) and (B) and are correct
- (2) Only statement (A) is correct
- (3) Only statement (B) is correct
- (4) Both statements (A) and (B) are incorrect
- 162.Read the following statement w.r.t erythroblastosis foetalis.

  To prevent erythroblastosis foetalis, the Rh-ve mother is administered A antibodies, immediately after the delivery of B Rh+ve child.

Choose the option that correctly fills the blanks A and B.

### Δ

B

- (1) Anti-A and Anti-B Last
- (2) Anti-A

First

(3) Anti-Rh

First

(4) Anti-B

Second

- (1)(1)
- (2)(2)
- (3)(3)
- (4)(4)
- 163.Read the following statements carefully.
  - (a) Blood is considered as a fluid connective tissue and i does not have fibres.
  - (b) A healthy individual has 400-600 gms of haemoglobin in every 500 mL of blood.
  - (c) Spleen is the reservoir and graveyard of erythrocytes. Choose the correct option.
  - (1) (a) and (c) are correct
  - (2) (b) and (c) are incorrect
  - (3) (a) and (b) are correct
  - (4) (b) and (c) are correct
- 164.Read the following statements w.r.t. human heart
  - (i) Endodermally derived organ situated in the thoracic cavity.
    - (ii) In an adult, it is of the size of a clenched fist.
  - (iii) It is protected by a double walled membranous bag called the pericardium.
  - (iv) The small upper chambers of the heart are called atria and lower large chambers are called ventricles.

How many statements is/are correct?

- (1) One
- (2) Two
- (3) Three
- (4) Four

- 165.The maximum number of action potentials generated by SAN in human heart under normal physiological conditions, is
  - (1) 70-75/second
  - (2) 70-75/minute
  - (3) 60-65/minute
  - (4) 60-65/second
- 166.If 'anti-A' antibodies are present in the blood plasma of a patient, he can receive blood from
  - (1) An individual whose RBCs contain 'A' antigens
  - (2) An individual with 'A' and 'B' antigens on his RBCs
- CC-001 (3) An individual whose plasma contains anti-A and anti-B antibodies 01 CC-001
  - (4) An individual with no antibodies in his plasma
  - 167. Select the incorrect statement w.r.t. humans.
    - (1) The wall of left ventricle is much thicker than that of atria.
    - (2) A thin muscular wall called the inter-atrial septum separates the right and left atria.
    - A thin non-cellular muscular septum, called the atrio-(3) ventricular septum, separates atrium and ventricle of the same side.
    - The opening between the right atrium and the right ventricle is guarded by tricuspid valve.
  - 168.A person met with an accident and needed immediate blood transfusion but his blood group was unknown to his family members. In this case, which of the following blood groups can be used, so that no mismatching occurs?
    - (1) AB -ve
    - (2) O +ve
    - (3) O -ve
    - (4) AB +ve
  - 169. is mainly helpful for maintaining osmotic balance in human body. Select the option that fills the blank correctly.
    - (1) Fibrinogen
    - (2) Globulin
    - (3) Thrombin 101

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- (4) Albumin
- 170.What would be the heart rate of a person if the cardiac output is 7 L, blood volume in the left ventricle at the end of diastole is 200 mL and at the end of ventricular systole is 100 mL?
  - (1) 50 beats per minute
  - (2) 75 beats per minute
  - (3) 70 beats per minute
  - (4) 100 beats per minute

(c) The walls of arteries and veins consist of three layers. (c) Dorsal aorta has a narrow lumen as compared to vena cava.  Choose the option that represents only correct statement(s).  (1) (a), (b), (c)  (2) (a), (b)  (3) (b), (c)  (4) Only (b)  (5) Decréable the heart rate C - 001  (7) Increase the cardiac output  (8) Decrease the cardiac output  (9) Do not affect the functioning of heart  (1) Town of a normal healthy person in mm Hg.  (1) Town of a normal healthy person in mm Hg.  (1) Town of the following does not involve in the system circulation?  (1) Town of the following does not involve in the system circulation?  (1) Town of the following does not involve in the system circulation?  (1) Town of the following construction of the following circulation?  (2) Town of the following does not involve in the system circulation?  (1) Town of the following construction of the following circulation?  (1) Town of the following construction of the following circulation?  (2) Town of the following construction of the following circulation?  (3) Pulmonary vein of the following circulations of the following circulation?  (4) Vena cava  179 Megakaryocytes are precursors for circulations of the correct option.  (1) A and B onty  (4) Thrombocytes	171.Read the following statements w.r.t. humans.  (a) The blood isn't circulated through a closed network of	176.Match column I and column II w.r.t. formed elements an choose the correct match.			
(c) Dorsal aorra has a narrow lumen as compared to vena cava. Choose the option that represents only correct statement(s).  (1) (a), (b), (c) (2) (a), (b) (3) (b), (c) (4) Only (b) (2) Increase the cardiac output (3) Decrease the cardiac output (4) Do not affect the functioning of heart  173-Choose the correct value of systolic and diastolic blood pressure of a normal healthy person in mm Hg.  (2) 20	blood vessels. (b) The walls of arteries and veins consist of three layers	Column I Column II			
Choose the option that represents only correct statement(s).  (1) (a), (b), (c)  (2) (a), (b)  (3) (b), (c)  (4) Only (b)  (5) Onercase the cardiac output  (6) Decrease the cardiac output  (7) Decrease the cardiac output  (8) Decrease the cardiac output  (9) Do not affect the functioning of heart  173.Choose the correct value of systolic and diastolic blood pressure of a normal healthy person in mm Hg.  (1) \( \frac{100}{100} \)  (2) \( \frac{100}{100} \)  (3) \( \frac{100}{100} \)  (4) \( \frac{100}{100} \)  (5) \( \frac{100}{100} \)  (6) \( \frac{100}{100} \)  (7) \( \frac{100}{100} \)  (8) \( \frac{100}{100} \)  (9) \( \frac{100}{100} \)  (10) \( \frac{100}{100} \)  (11) \( \frac{100}{100} \)  (12) \( \frac{100}{100} \)  (13) \( \frac{100}{100} \)  (14) \( \frac{100}{100} \)  (15) \( \frac{100}{100} \)  (15) \( \frac{100}{100} \)  (16) \( \frac{100}{100} \)  (17) \( \frac{100}{100} \)  (18) \( \frac{100}{100} \)  (19) \( \frac{100}{100} \)  (10) \( \frac{100}{100} \)  (17) \( \frac{100}{100} \)  (18) \( \frac{100}{100} \)  (19) \( \frac{100}{100} \)  (10) \( \frac{100}{100} \)  (10) \( \frac{100}{100} \)  (11) \( \frac{100}{100} \)  (12) \( \frac{100}{100} \)  (13) \( \frac{100}{100} \)  (14) \( \frac{100}{100} \)  (15) \( \frac{100}{100} \)  (15) \( \frac{100}{100} \)  (16) \( \frac{100}{100} \)  (17) \( \frac{100}{100} \)  (18) \( \frac{100}{100} \)  (19) \( \frac{100}{100} \)  (17) \( \frac{100}{100} \)  (18) \( \frac{100}{100} \)  (19) \( \frac{100}{100} \)  (17) \( \frac{100}{100} \)  (18) \( \frac{100}{100} \)  (19) \( \frac{100}{100} \)  (10) \( \frac{100}{100} \)  (10) \( \frac{100}{100} \)  (11) \( \frac{100}{100} \)  (12) \( \frac{100}{100} \)  (13) \( \frac{100}{100} \)  (14) \( \frac{100}{100} \)  (15) \( \frac{100}{100} \)  (17) \( \frac{100}{100} \)  (18) \( \frac{100}{100} \)  (18) \( \frac{100}{100} \)  (19) \( \frac{100}{100} \)  (10) \( \frac{100}{100} \)  (17) \( \frac{100}{100} \)  (18) \( \frac{100}{100} \)  (18) \( \frac{100}{100} \)  (19) \( \frac{100}{100} \)  (10) \( \frac{100}{100}	(c) Dorsal aorta has a narrow lumen as compared to vena	a. Neutrophil (i) Granulated phagocyte			
(2) (a), (b) (c) (d) Chly (b) (2) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	Choose the option that represents only correct	b. Basophil (ii) Contains haemoglobin			
(3) (b), (c) (4) Only (b) (2) a(i), b(ii), c(iii), d(ii) (2) a(i), b(ii), c(iii), d(ii) (3) a(iii), b(ii), c(i), d(iv) (4) Conly (b) (5) Increase the cardiac output (6) Decrease the cardiac output (7) Decrease the cardiac output (8) Decrease the cardiac output (9) Do not affect the functioning of heart (1) so (1) so (2) a(iii), b(ii), c(i), d(iv) (1) a(iii), b(ii), c(i), d(iv) (2) Increase the cardiac output (3) Decrease the cardiac output (4) Do not affect the functioning of heart (5) Lings (6) a(iii) (7) a(iii) (8) a(iii), b(ii), c(i), d(iv) (9) a(iii) (1) Joint diastole (1) Joint diastole (2) Arrai systole (2) Arrai systole (3) Verificular diastole (4) Verytricular diastole (1) Agorticular diastole (2) Left ventricle (3) Pulmonary vein (4) Vera cava (5) Left ventricle (6) Vera cava (7) Megakaryocytes are precursors for (1) Lymphocytes (2) Leukocytes (3) Erythrocytes (2) Leukocytes (3) Erythrocytes (4) Thrombocytes (5) Bondle of nodal fibres from the AV node branch off into right and left burdle that further branch out as minute fibre throughout the ventricular musculature. These minute fibre are (1) Chordae tendineae (2) Columnae carneae (3) Purkinje fibres (4) Trabeculae carneae	(1) (a), (b), (c)	c. Monocyte (iii) Largest leucocyte			
(4) Only (b)  172.Adrenal medullary hormones  (3) a(ii), b(ii), c(iii), d(iv)  (3) Decrease the cardiac output  (3) Decrease the cardiac output  (4) Do not affect the functioning of heart  173.Choose the correct value of systolic and diastolic blood pressure of a normal healthy person in mm Hg.  (1) \$\frac{100}{100}\$  (2) \$\frac{100}{100}\$  (2) \$\frac{100}{100}\$  (3) \$\frac{100}{100}\$  (4) Do not affect the functioning of heart  173.Choose the correct value of systolic and diastolic blood pressure of a normal healthy person in mm Hg.  (1) \$\frac{100}{100}\$  (2) \$\frac{100}{100}\$  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (5) \$\frac{100}{100}\$  (1) Joint diastole  (2) Atrial, systole  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (5) \$\frac{100}{100}\$  (6) \$\frac{100}{100}\$  (1) Joint diastole  (2) Atrial, systole  (3) \$\frac{100}{100}\$  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (5) \$\frac{100}{100}\$  (1) Joint diastole  (2) Atrial, systole  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (5) \$\frac{100}{100}\$  (1) \$\frac{100}{100}\$  (2) \$\frac{100}{100}\$  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (5) \$\frac{100}{100}\$  (1) \$\frac{100}{100}\$  (2) \$\frac{100}{100}\$  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (5) \$\frac{100}{100}\$  (1) \$\frac{100}{100}\$  (2) \$\frac{100}{100}\$  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (5) \$\frac{100}{100}\$  (1) \$\frac{100}{100}\$  (2) \$\frac{100}{100}\$  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (5) \$\frac{100}{100}\$  (1) \$\frac{100}{100}\$  (2) \$\frac{100}{100}\$  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (5) \$\frac{100}{100}\$  (1) \$\frac{100}{100}\$  (2) \$\frac{100}{100}\$  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (5) \$\frac{100}{100}\$  (1) \$\frac{100}{100}\$  (2) \$\frac{100}{100}\$  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (5) \$\frac{100}{100}\$  (1) \$\frac{100}{100}\$  (2) \$\frac{100}{100}\$  (3) \$\frac{100}{100}\$  (4) \$\frac{100}{100}\$  (5) \$\frac{100}{100}\$  (6	(2) (a). (b)	d. Erythrocyte (iv) Secretes inflammatory mediators			
172.Adrenal medullary hormones  (3) a(ii), b(i), c(i), d(i)  (2) Increase the cardiac output  (3) Decrease the cardiac output  (4) Do not affect the functioning of heart  173.Choose the correct value of systolic and diastolic blood pressure of a normal healthy person in mm Hg.  (1) 100  (2) 100  (3) 120  (3) 120  (4) 120  (5) 120  (6) Afria: systole  (7) Africultar valves of flear topen during  (1) Joint diastole  (2) Afria: systole  (3) Verificultar systole  (4) Veutricular diastole  (4) Veutricular diastole  (5) 40 Veutricular diastole  (6) Veutricular diastole  (7) 180 Veutricular diastole  (8) Veutricular diastole  (9) Veutricular diastole  (1) Right atmum  (1) Left ventricle  (2) Left ventricle  (3) Pulmonary vein  (4) Vena cava  179 Megakaryocytes are precursors for  (1) Lymphocytes  (2) Leukocytes  (3) Erythrocytes  (4) Thrombocytes  (5) Bond C only  (6) A, B, C and D  (75 Blood from intestine is carried to the liver via before it is returned to displaying. The correct option which fills the blank is  (1) Hepatic vein  (2) Hepatic portal vein  (3) Hepatic arriery  (4) Trabeculae carneae  (4) Trabeculae carneae	(3) (b), (c)	(1) a(i), b(iv), c(iii), d(ii)			
(3) a(ii), b(ii), c(i), d(iv)  (1) Decréase the heart rate C-001 CC-001 (2) Increase the cardiac output (3) Decrease the cardiac output (4) Do not affect the functioning of heart  173.Choose the correct value of systolic and diastolic blood pressure of a normal healthy person in mm Hg. (1) 500 (2) 100 (3) 120 (3) 120 (3) 120 (3) 120 (4) 200 (3) 120 (4) 200 (4) 200 (4) 200 (5) 200 (6) 4) a(iii), b(iv), c(i), d(ii) (7) 3 Arial, systole (7) 4 Arial, systole (8) Ventricular systole (9) Ventricular diastole (1) 4 Ventricular diastole (1) Right atrium (2) Left ventricle (3) Pulmonary vein (4) Yena cava  179 Megakaryocytes are precursors for (1) Lymphocytes (2) Leidkocytes (3) Pythrocytes (3) Pythrocytes (4) Thrombocytes (3) Erythrocytes (4) Thrombocytes (5) Bond C only (6) A(iii) b(ii), c(i), d(iv) (7) Arial, systole (7) Ventricular systole (8) Ventricular systole (9) Ventricular systole (1) Right atrium (2) Left ventricle (3) Pulmonary vein (4) Yena cava 179 Megakaryocytes are precursors for (4) Yena cava 179 Megakaryocytes are precursors for (1) Lymphocytes (2) Leidkocytes (3) Erythrocytes (4) Thrombocytes (3) Erythrocytes (4) Thrombocytes (1) Chordae tendineae (1) Chordae tendineae (2) Collimine cameae (3) Purkinje fibres (4) Trabeculae cameae	(4) Only (b)	(2) a(i), b(ii), c(iii), d(iv)			
(2) Increase the cardiac output (3) Decrease the cardiac output (4) Do not affect the functioning of heart  173.Choose the correct value of systolic and diastolic blood pressure of a normal healthy person in mm Hg. (1) 100 mol affect the functioning of heart (2) Atrial systole (2) 100 mol affect the functioning of heart (1) 100 mol affect the functioning of heart (2) Atrial systole (3) Vertificular systole (4) Verificular diastole (4) Verificular diastole (5) 100 mol affect the functioning of heart (6) 100 mol affect the functioning of heart (7) 100 mol affect the functioning of heart (8) Verificular systole (9) Verificular diastole (1) Verificular diastole (1) Verificular diastole (2) Atrial systole (3) Verificular diastole (4) Verificular diastole (1) Right atrium (2) Left verificle (3) Pulmonary vein (4) Verificular diastole (4) Verificular diastole (2) Atrial systole (3) Pulmonary vein (4) Verificular diastole (4) Verificular diastole (4) Verificular diastole (4) Verificular diastole (5) Left verificular (6) Verificular diastole (7) Atrial systole (8) Verificular diastole (9) Verificular diastole (1) Left verificular (2) Left verificile (3) Pulmonary vein (4) Verificular diastole (4) Verificular diastole (4) Verificular diastole (1) Left verificile (3) Pulmonary vein (4) Verificular diastole (5) Left verificile (6) Verificular diastole (7) Left verificile (8) Verificular diastole (9) Verificular diastole (1) Left verificile (3) Pulmonary vein (4) Verificular diastole (1) Left verificile (3) Pulmonary vein (1) Left verificile (4) Verificular diastole (1) Left verificile (2) Left verificile (3) Pulmonary vein (1) Left verificile (4) Verificular diastole (2) Left verificile (3) Pulmonary vein (4) Verificular diastole (4) Verificular diastole (5) Left verificile (6) Verificular diastole (7) Left verificile (8) Pulmonary vein (9) Verificular diastole (1) Left verificile (1) Left verificile (2) Left verificile (3)	172.Adrenal medullary hormones	(3) a(iii), b(ii), c(i), d(iv)			
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173.Choose the correct value of systolic and diastolic blood pressure of a normal healthy person in mm Hg.  (1) 500	(3) Decrease the cardiac output	AND AND AND AND ADDRESS OF THE PARTY OF THE			
(4) Veutricular diastole  (1) 500	(4) Do not affect the functioning of heart	(2) Atrial systole			
178 Which of the following does not involve in the system circulation?  (2) 309	173.Choose the correct value of systolic and diastolic blood	(3) Ventricular systole			
(2) 100		(4) Ventricular diastole			
(2) 190 (3) 120 (3) 120 (4) 171 (4) 172 (5) 173 (7) 174 (7) 189 (7) 174 (7) 189 (7) 189 (7) 189 (7) 189 (7) 189 (7) 189 (7) 189 (7) 189 (7) 189 (8) 189 (9) 189 (1) 189 (1) 189 (1) 189 (2) 189 (2) 189 (3) 189 (4) 189 (4) 189 (4) 189 (5) 189 (6) 189 (7) 189 (7) 189 (8) 18	(1) 300	178. Which of the following does not involve in the systemic			
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(2) Lett ventricle (3) Pulmonary vein (4) Yena cava like A. Heart B. Brain C. Kidneys D. Lungs Choose the correct option. (1) A and B only (2) B and C only (3) A, B and C only (4) A, B, C and D  75. Blood from intestine is carried to the liver via before it is returned to systemic circulation. The correct option which fills the blank is (1) Hepatic vein (2) Lett ventricle (3) Pulmonary vein (4) Vena cava (1) Lymphocytes are precursors for (1) Lymphocytes (2) Leukocytes (2) Leukocytes (3) Erythrocytes (4) Thrombocytes (4) Thrombocytes (4) Thrombocytes (5) Blood from the AV node branch off into right and left bundle that further branch out as minute fibrethroughout the ventricular musculature. These minute fibrethroughout the ventricular and control of the liver via before it is returned to systemic circulation. The correct option which (2) Columnse carneae (3) Purkinje fibres (4) Trabeculae carneae	(3) 120				
174.High blood pressure can potentially harm the vital organs like   179.Megakaryocytes are precursors for   179.Megakaryocytes   179.Megakaryocytes are precursors for   179.Megakaryocytes   179.Mega		(2) Left ventricle			
like A. Heart B. Brain C. Kidneys D. Lungs Choose the correct option. (1) A and B only (2) B and C only (3) A, B and C only (4) A, B, C and D  75. Blood from intestine is carried to the liver via before it is returned to systemic circulation. The correct option which fills the blank is (1) Hepatic vein (2) Hepatic portal vein (3) Hepatic artery  179. Megakaryocytes are precursors for (1) Lymphocytes (2) Leukocytes (2) Leukocytes (3) Erythrocytes (4) Thrombocytes (5) Elokocytes (6) Elokocytes (7) Leukocytes (8) Erythrocytes (9) Leukocytes (9) Leukocytes (9) Leukocytes (9) Leukocytes (9) Leukocytes (1) Lymphocytes (1) Phopotytes (1) Chordae from the AV node branch off into right and left bundle that further branch out as minute fibres (1) Chordae tendineae (1) Chordae tendineae (1) Columnse carneae (1) Chordae tendineae (1) Chordae tendineae (1) Chordae tendineae (2) Columnse carneae (3) Purkinje fibres (4) Trabeculae carneae	(4) <del>n</del>	(3) Pulmonary vein			
A. Heart B. Brain C. Kidneys D. Lungs Choose the correct option. (1) A and B only (2) B and C only (3) A, B and C only (4) A, B, C and D  75.Blood from intestine is carried to the liver via	L74.High blood pressure can potentially harm the vital organs				
C. Kidneys D. Lungs Choose the correct option.  (1) A and B only (2) B and C only (3) A, B and C only (4) A, B, C and D  75.Blood from intestine is carried to the liver via before it is returned to systemic circulation. The correct option which fills the blank is (1) Hepatic vein (2) Leukocytes (2) Leukocytes (3) Erythrocytes (4) Thrombocytes  180.Bundle of nodal fibres from the AV node branch off into right and left bundle that further branch out as minute fibres throughout the ventricular musculature. These minute fibres are (1) Chordae tendineae (2) Columnse carneae (3) Purkinje fibres (4) Trabeculae carneae (4) Trabeculae carneae		179.Megakaryocytes are precursors for			
D. Lungs Choose the correct option.  (1) A and B only (2) B and C only (3) A, B and C only (3) A, B and C only (4) A, B, C and D  75.Blood from intestine is carried to the liver via before it is returned to systemic circulation. The correct option which fills the blank is (1) Hepatic vein (2) Hepatic portal vein (3) Erythrocytes (4) Thrombocytes (4) Thrombocytes (4) Thrombocytes (4) Thrombocytes (5) Enythrocytes (4) Thrombocytes (4) Thrombocytes (4) Thrombocytes (5) Enythrocytes (6) Erythrocytes (7) Enythrocytes (8) Erythrocytes (9) Erythrocytes (1) Chordae from the AV node branch off into right and left bundle that further branch out as minute fibres throughout the ventricular musculature. These minute fibres are (1) Chordae tendineae (3) Purkinje fibres (4) Trabeculae carneae (4) Trabeculae carneae	\$10 miles   10 miles	(1) Lymphocytes			
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(3) A, B and C only  (4) A, B, C and D  75.Blood from intestine is carried to the liver via before it is returned to systemic circulators. The correct option which fills the blank is  (1) Hepatic vein  (2) Hepatic portal vein  (3) A, B and C only  and left bundle that further branch out as minute fibres throughout the ventricular musculature. These minute fibres are  (1) Chordae tendineae  (2) Columnse carneae  (3) Purkinje fibres  (4) Trabeculae carneae		(4) Thrombocytes			
(4) A, B, C and D  75.Blood from intestine is carried to the liver via		180.Bundle of nodal fibres from the AV node branch off into right			
75.Blood from intestine is carried to the liver via		and left bundle that further branch out as minute fibree			
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