Q1. If speed V, area A and force F are chosen as fundamental units, then the dimension of Young's modulus will be

(1) FA^2V^{-1} (2) FA^2V^{-3} (3) FA^2V^{-2}

(4) $FA^{-1} V^{0}$

Q2. Train A and train B are running on parallel tracks in the opposite directions with speed of 36 kmhour⁻¹ and 72 km hour ⁻¹, respectively. A person is walking in train A in the direction opposite to its motion with a speed of 1.8 km hour ⁻¹. Speed (in ms⁻¹) of this person as observed from train B will be close to: (take the distance between the tracks as negligible)

(1) 29.5 m s⁻¹

(2) 28.5 m s⁻¹

(3) 31.5 m s⁻¹

(4) 30.5 m s^{-1}

Q3. A bead of mass *m* stays at point P(a, b) on a wire bent in the shape of a parabola $y = 4Cx^2$ and rotating with angular speed ω (see figure). The value of ω is (neglect friction)



Q4. A uniform cylinder of mass M and radius R is to be pulled over a step of height a (a < R) by applying a force F at its centre /O' perpendicular to the plane through the axes of the cylinder on the edge of the step (see figure). The minimum value of F required is :



Q5. In a reactor, 2 kg of $_{92}U^{235}$ fuel is fully used up in 30 days. The energy released fission is 200 MeV. Given that the Avogadro number, N = 6.023×10^{26} per kilo mole and $1eV = 1.6 \times 10^{-19}$ J. The power output of the reactor is close to:

(1) 35 MW
 (2) 60 MW
 (3) 125 MW
 (4) 54 MW

Q6. A particle of mass m with an initial velocity $u\hat{i}$ collides perfectly elastically with a mass 3 m at rest. It moves with a velocity $v\hat{j}$ after collision, then, v is given by

(1)
$$\mathbf{v} = \sqrt{\frac{2}{3}}\mathbf{u}$$

(2) $\mathbf{v} = \frac{u}{\sqrt{3}}$
(3) $\mathbf{v} = \frac{u}{\sqrt{2}}$
(4) $\mathbf{v} = \frac{1}{\sqrt{6}}u$

Q7. Shown in the figure is rigid and uniform one meter long rod AB held in horizontal position by two strings tied to its ends and attached to the

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ceiling. The rod is off mass /m/ and has another weight of mass 2 m hung at a distance of 75 cm from A . The tension in the string at A is:



- (1) 0.5 mg
- (2) 2 mg
- (3) 0.75 mg
- (4) 1 mg

Q8. A cylindrical vessel containing a liquid is rotated about its axis so that the liquid rises at its sides as shown in the figure. The radius of vessel is 5 cm and the angular speed of rotation is ω rads⁻¹. The difference in the height, h (in cm) of liquid at the Centre of vessel and at the sides of the vessel will be :



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Q9. The mass density of a spherical galaxy varies as $\frac{\kappa}{r}$ over a large distance *r* from its center. In that region, a small star is in a circular orbit of radius *R*. Then the period of revolution, *T* depends on *R* as:

(1)
$$T^2 \propto R$$

(2) $T^2 \propto R^3$
(3) $T^2 \propto \frac{1}{R^3}$
(4) $T \propto R$

Q10. A gas mixture consists of 3 moles of oxygen and 5 moles of argon at temperature T. Assuming the gases to be ideal and the oxygen bond to be rigid, the total internal energy (in units of RT) of the mixutre is :

(1) 15

(2) 13

(3) 20

(4) 11

Q11. Two identical strings X and Z made of same material have tension T_X and T_Z in then if their fundamental frequencies are 450 Hz and 300 Hz, respectively, then the ratio T_X/T_Z is : (1) 2.25

(1) 2.23(2) 0.44

(3) 1.25

(4) 1.5

Q12. Consider four conducing materials copper, tungsten, mercury and aluminum with resistivity $\rho_{\rm C}$, $\rho_{\rm T}$, $\rho_{\rm M}$ and $\rho_{\rm A}$ respectively. Then :

 $\begin{array}{l} (1) \ \rho_{\rm C} > \rho_{\rm A} > \rho_{\rm T} \\ (2) \ \rho_{\rm M} > \rho_{\rm A} > \rho_{\rm C} \\ (3) \ \rho_{\rm A} > \rho_{\rm T} > \rho_{\rm C} \\ (4) \ \rho_{\rm A} > \rho_{\rm M} > \rho_{\rm C} \end{array}$

Q13. A beam of protons with speed 4 × 10^5 m s⁻¹ enters a uniform magnetic field of 0.3 T at an angle 60° to the magnetic field, the pitch of the resulting helical path of protons is close to : (Mass of the proton = 1.67×10^{-27} kg, charge of the proton = 1.69×10^{-19} C)

(1) 2 cm

(2) 5 cm (3) 12 cm

(4) 4 cm

(4) 4 CIII

Q14. A charged particle (mass m and charge q) moves along X axis with velocity V_0 . When it

passes through the origin it enters a region having uniform electric field $\vec{E} = -E\hat{j}$ which extends upto x = d. Equation of path of electron in the region x > d is:



(1)
$$y = \frac{qEd}{mv_0^2}(x - d)$$

(2) $y = \frac{qEd}{m_0^2}\left(\frac{d}{2} - x\right)$
(3) $y = \frac{qEd}{mv_0^2}$
(4) $y = \frac{q^2d^2}{mv_0^2}x$

Q15. Magnetic materials used for making permanent magnets (P) and magnets in a transformer (T) have different properties of the following, which property best matches for the type of magnet required?

T: Large retentivity, small coercivity
 P: small retentivity, large coercivity

(3) T: Large retentivity, large coercivity

(4) P : large retentivity, large coercivity

Q16. A plane electromagnetic wave, has frequency of 2.0×10^{10} Hz and its energy density is 1.02×10^{-8} J m⁻³ in vacuum. The amplitude of the magnetic field of the wave is close to $\left(\frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2}\right)$ and speed of light $= 3 \times 10^8$ m s⁻¹. (1) 150 nT (2) 160 nT (3) 180 nT (4) 190 nT

Q17. A spherical mirror is obtained as shown in the figure from a hollow glass sphere, if an object is positioned in front of the mirror, what

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will be the nature and magnification of the image of the object? (Figure down as schematic and not to scale)



(1) Inverted, real and magnified

(2) Erect, virtual and magnified

- (3) Erect, virutual and unmagnified
- (4) Inverted, real and unmagnified

Q18. Interference fringes are observed on a screen by illuminating two thin slits 1 mm apart with a light source ($\lambda = 632.8$ nm). The distance between the screen and the slits is 100 cm. If a bright fringe is observed on a screen at distance of 1.27 mm from the central bright fringe, then the path difference between the waves, which are reaching this point from the slits is close to :

(1) 1.27μ m
 (2) 2.87 nm

(3) 2 nm

(4) 2.05µ m

Q19. An amplitude modulated waves is represented by expression $v_m = 5(1 + 0.6\cos 6280t)\sin(211 \times 10^4 t)V$. The minimum and maximum amplitudes of the amplitudes modulated wave are, respectively:

 $(1) \frac{3}{2} V, 5 V$ $(2) \frac{5}{2} V, 8 V$ (3) 5 V, 8 V(4) 3 V, 5 V

Q20. The least count of the main scale of a vernier calipers is 1 mm. Its vernier scale is divided into 10 divisions and coincide with 9 divisions of the main scale. When jaws are touching each other, the 7th division of the

vernier scale coincides with a division of the main scale and the zero of vernier scale is lying right side of the zero of the main scale. When this vernier is used to measure the length of the cylinder the zero of the vernier scale between 3.1 cm and 3.2 cm and 4th VSD coincides with the main scale division. The length of the cylinder is (VSD is vernier scale division)

- (1) 3.2 cm
- (2) 3.21 cm

(3) 3.07 cm (4) 2.99 cm

(+) 2.99 CII

Q21. A small block starts slipping down from a point *B* on an inclined plane *AB*, which is making an angle θ with the horizontal section *BC* is smooth and the remaining section *CA* is rough with a coefficient of friction μ . It is found that the block comes to rest as it reaches the bottom (point A) of the inclined plane. If *BC* = 2*AC*, the coefficient of friction is given by μ = ktan θ . The value of *k* is



Q22. An engine takes in 5 moles of air at 20° C and 1 atm, and compresses it adiabatically to $1/10^{\text{th}}$ of the original volume. Assuming air to be a diatomic ideal gas made up of rigid molecules, the change in its internal energy during this process comes out to be XkJ. The value of X to the nearest integer is:

Q23. A 5 μ F capacitor is charged fully by a 220 V supply. It is then disconnected from the supply and is connected in series to another uncharged 2.5 μ F capacitor. If the energy change during the charge redistribution is $\frac{X}{100}$ J then value of X to the nearest integer is :

Q24. A circular coil of radius 10 cm is placed in a uniform magnetic field of 3.0×10^{-5} T with its plane perpendicular to the field initially. It is rotated at constant angular speed about an axis

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Q25. When radiation of wavelength A is used to illuminate a metallic surface, the stopping potential is V. When the same surface is illuminated with radiation of wavelength 3 A, the stopping potential is $\frac{V}{4}$. If the threshold wavelength for the metallic surface is $n\lambda$ then value of *n* will be :

Q26. The figure that is not a direct manifestation of the quantum nature of atom is : (1)





Q27.In general, the property (magnitudes only) that shows an opposite trend in comparison to other properties across a period is :

(1) lonization enthalpy

(2) Electronegativity

- (3) Electron gain enthalpy
- (4) Atomic radius

Q28.If AB_4 molecule is a polar molecule, a possible geometry of AB_4 is :

- (1) Square pyramidal
- (2) Tetrahedral
- (3) Rectangular planar
- (4) Square planar

Q29. Which one of the following graphs is not correct for ideal gas? d = Density, P = Pressure, T = Temperature



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Q30.For the following Assertion and Reason, the correct option is

Assertion (A) : When Cu (II) and sulphide ions are mixed, they react together extremely quickly to give a solid.

Reason (R) : The equilibrium constant of $Cu^{2+}(aq) + S^{2-}(aq) \rightleftharpoons Cus(s)$ is high because the solubility product is low.

(1) (A) is false and (R) is true.

(2) Both (A) and (R) are false.

(3) Both (A) and (R) are true but (R) is not the explanation for (A).

(4) Both (A) and (R) are true and (R) is the explanation for (A).

Q31.An open beaker of water in equilibrium with water vapour is in a sealed container. When a few grams of glucose are added to the beaker of water, the rate at which water molecules :

(1) leaves the vapour increases

(2) leaves the solution increases

(3) leaves the solution decreases

(4) leaves the vapour decreases

Q32. While titration dilute HCI solution with aqueous NaOH, which of the following will not be required ?

(1) Burette and porcelain tile

(2) Pipette and distilled water

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- (3) Clamp and phenolphthalein
- (4) Bunsen burner and measuring cyclinder

Q33. The metal mainly used in devising photoelectric cells is :

- (1) Na
- (2) Li (3) Rb
- (4) Cs
- (4) Cs

Q34. On heating compound (A) gives a gas (B) which is constituent of air. This gas when treated with H₂ in the presence of a catalyst gives another gas (C) which is basic in nature. (A) should not be : (1) NaN₃ (2) Pb(NO₃)₂ (3) (NH₄)₂Cr₂O₇

 $(4) NH_4NO_2$

Q35. In Carius method of estimation of halogen, 0.172 g of an organic compound showed presence of 0.08 g of bromine. Which of these is the correct structure of the compound? (1) CH₃CHBr₂ (2)



(3)



Q36. The increasing order of the following compounds towards HCN addition is : (i)



(ii)



(iii)



(iv)

 $(4) H_3C - CH_2 - Br$

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 $\begin{array}{l} (1) (i) < (iii) < (iv) < (ii) \\ (2) (iii) < (iv) < (i) < (ii) \\ (3) (iii) < (i) < (iv) < (ii) \\ (4) (iii) < (iv) < (ii) < (i) \\ \end{array}$

Q37. The IUPAC name for the following compound is :



(1) 2,5-dimenthyl-5-carboxy-hex-3-enal

(2) 2, 5-dimenthyl-6-carboxy-hex-3-enal

(3) 2,5-dimenthyl-6-carboxy-hex-3-enoic acid

(4) 6-formyl-2-methy 1 -hex-3-enoic acid

Q38. The major product in the following reaction is :





(2)



(3)



(4)

(1)

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Q39. The statement that is not true about ozone is :

(1) in the stratosphere, CFCs release chlorine free radicals (CI) which reacts with O_3 to give chlorine

(3) in the stratosphere, it forms a protective shield against UV radiation.

(2) in the atmosphere, it is depleted by CFCs.(4) It is a toxic gas and its reaction with NO gives NO₂

Q40. Which of the following is used for the preparation of colloids?

- (1) Ostwald process
- (2) Van Arkel Method
- (3) Bredig's Arc Method
- (4) Mond Process

Q41. Consider that d^6 metal ion (M²⁺) forms a complex with aqua ligands, and the spin only magnetic moment of the complex is 4.90 BM. The geometry and the crystal field stabilization energy of the complex is :

(1) octahedral and $-2.4\Delta_0 + 2P$

- (2) tetrahedral and -0.6 Δ_t
- (3) octahedral and $-1.6\Delta_0$
- (4) tetrahedral and $-1.6\Delta_t + 1P$

Q42. For octahedral Mn(II) and tetrahedral Ni(II) complexes, consider the following statements :

(I) both the complexes can be high spin.

(II) Ni (II) complex can very rarely be of low spin.

(III) with strong field ligands, Mn (II) complexes can be low spin.

(IV) aqueous solution of Mn (II) ions is yellow in color.

The correct statements are : (1) (I) and (II) only

(2) (I), (II) and (IV) only
(3) (I), (II) and (III) only
(4) (II), (III) and (IV) only

Q43. Which of the following compounds will show retention in configuration on nucleophile substitution by OH⁻ion? (1)





 C_2H_5 (3)



Q44. The major aromatic product C in the following reaction sequence will be :



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Br

OH

:0

Q46. The Gibbs energy change (in J) for the given reaction at $[Cu^{2+}] = [Sn^2 +] = 1M$ and 298 K is :

Cu(s) + Sn²⁺ (aq.) → Cu²⁺ (aq.) + Sn(s) ($E_{Sn^{2+}|Sn}^{0} = -0.16 \text{ V}, E_{Cu^{2+}|Cu}^{0} = 0.34 \text{ V}, \text{ Take F} = 96500 \text{ Cmol}^{-1}$)

Q47. The internal energy change (in J) when 90 g of water undergoes complete evaporation at 100°C is (Given : ΔH_{vap} for water at 373 K = 41 kJ/mol, R = 8.314JK⁻¹ mol⁻¹)

Q48. The number of chiral carbons present in the molecule given below is

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Q49. The mass of gas adsorbed, x, per unit mass of adsorbate, m, was measured at various pressures, p. A graph between $\log \frac{x}{m}$ and $\log p$ gives a straight line with slope equal to 2 and the intercept equal to 0.4771. The value of $\frac{x}{m}$ at a

pressure of 4 atm is :

(Given $\log 3 = 0.4771$) O50. The oxidation states of iron atoms in compounds (A), (B) and (C), respectively, are x, y and z. Then sum of x, y and z is $Na_{4}[Fe(CN)_{5}(NOS)]Na_{4}[FeO_{4}][Fe_{2}(CO)_{9}]$ (A)

(B)

(C)

Q51. Let α and β be the roots of the equation, $5x^2 + 6x - 2 = 0$. If $S_n = \alpha^n + \beta^n$, n =1,2,3, ..., then (1) $6S_6 + \frac{5S_5}{5} = 2S_4$ $(2) 5S_6 + 6S_5 + 2S_4 = 0$ $(3)\ 5S_6+6S_5=2S_4$ $(4) \ 6S_6 + 5S_5 + 2S_4 = 0$

Q52. The value of
$$\left(\frac{1+\sin\frac{2\pi}{9}+i\cos\frac{2\pi}{9}}{1+\sin\frac{2\pi}{9}-i\cos\frac{2\pi}{9}}\right)^3$$
 is
(1) $\frac{1}{2}(1-i\sqrt{3})$
(2) $\frac{1}{2}(\sqrt{3}-i)$
(3) $-\frac{1}{2}(\sqrt{3}-i)$
(4) $-\frac{1}{2}(1-i\sqrt{3})$

Q53. The sum of the first three terms of G.P is S and their products is 27. Then all such S lie in $(1) (-\infty, -9] \cup [3, \infty)$ (<u>2)</u>[−3,∞)

(3) $(-\infty, -3] \cup [9, \infty)$ (4) $(-\infty, 9]$

Q54. If |x| < 1, |y| < 1 and $x \neq 1$, then the sum to infinity of the following series $(x + y) + (x^{2} + xy + y^{2}) + (x^{3} + x^{2}y + y^{2})$ $xy^2 + y^3) + \cdots$ is (1+x)(1+y) $\frac{x+y+x}{(1+x)(1+y)}$ $\frac{x+y-x}{(1-x)(1-y)}$ $\frac{x+y+xy}{x+y+xy}$

Q55. Let $\alpha > 0, \beta > 0$ be such that $\alpha^3 + \beta^2 =$ 4. If the maximum value of the term independent

of x in the binomial expansion of $\left(\alpha x^{\frac{1}{9}} + \right)$

- $\beta x^{-\frac{1}{6}}$ is 10k, then k is equal to
- (1) 336
- (2)352(3) 84
- (4) 176

Q56. A line parallel to the straight line 2x - y =0 is tangent to the hyperbola $\frac{x^2}{4} - \frac{y^2}{2} = 1$ at the point (x_1, y_1) .

Then $x_1^2 + 5y_1^2$ is equal to

- (1) 6
- (2) 8(3) 10
- (4) 5

Q57. The contrapositive of the statement "If I reach the station in time, then I will catch the train" is

(1) If I do not reach the station in time, then I will catch the train.

(3) If I will catch the train, then I reach the station in time.

(2) If do not reach the station in time, then I will not catch the train.

4) If I will not catch the train, then I do not reach the station in time.

Q58. Let $X = \{x \in N : 1 \le x \le 17\}$ and Y = $\{ax + b: x \in X \text{ and } a, b \in R, a > 0\}$. If mean and variance of elements of Y are 17 and 216 respectively then a + b is equal to (1)7

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(2) - 7(3) - 27(4) 9

Q59. If $R = \{(x, y) : x, y \in Z, x^2 + 3y^2 \le 8\}$ is a relation on the set of integers Z, then the domain of R^{-1} is $(1) \{-2, -1, 1, 2\}$ $(2) \{0,1\}$ $(3) \{-2, -1, 0, 1, 2\}$ $(4) \{-1,0,1\}$

Q60. Let A be a 2×2 real matrix with entries from $\{0,1\}$ and $|A| \neq 0$. Consider the following two statements;

(P) If $A \neq l_2$, then |A| = -1(Q) If |A| = 1, then tr(A) = 2 Where l_2 denotes 2×2 identity matrix and tr(A) denotes the sum of the diagonal entries of A. Then (1) (P) is false and (Q) is true

(2) Both (P) and (Q) are false (3) (P) is true and (Q) is false (4) Both (P) and (Q) are true

Q61. Let S be the set of all $\lambda \in R$ for which the system of linear equations 2x - y + 2z = 2 $x - 2y + \lambda z = -4$ $x + \lambda y + z = 4$ has no solution. Then the set S(1) Contains more than two elements (2) Is an empty set (3) Is a singleton

(4) Contains exactly two elements

Q62. The domain of the function f(x) = $\sin^{-1}\left(\frac{|x|+5}{x^2+1}\right)$ is $(-\infty, -a] \cup [a, \infty)$, then a is equal to $(1)\frac{\sqrt{17}}{2}$ $\begin{array}{c} (2) \frac{2}{\sqrt{17}-1} \\ (3) \frac{1+\sqrt{17}}{2} \\ (4) \frac{\sqrt{17}}{2} + 1 \end{array}$

O63. If a function f(x) defined by f(x) =

$$\begin{cases} ae^{x} + be^{-x}, & -1 \le x < 1 \\ cx^{2}, & 1 \le x \le 3 \text{ be continuous for} \\ ax^{2} + 2cx, & 3 < x \le 4 \\ \text{some } a, b, c \in R \text{ and } f'(0) + f'(2) = e, \text{ then} \\ \text{the value of } a \text{ is} \\ (1) \frac{1}{e^{2} - 3e + 1} \\ (2) \frac{e}{e^{2} - 3e - 1} \\ (3) \frac{e}{e^{2} - 3e + 1} \\ (4) \frac{e}{e^{2} - 3e + 1} \end{cases}$$

Q64. If the tangent to the curve $y = x + \sin y$ at a point (a, b) is parallel to the line joining $\left(0, \frac{3}{2}\right)$

and $\left(\frac{1}{2}, 2\right)$, then (1) b = a(2) |b - a| = 1(3) |a + b| = 1(4) $b = \frac{\pi}{2} + a$

Q65. If p(x) be a polynomial of degree three that has a local maximum value 8 at x = 1 and a local minimum value 4 at x = 2 then p(0) is equal to

(1) 6(2) - 12(3) 24

(4) 12

Q66. Let P(h, k) be a point on the curve y = $x^2 + 7x + 2$, nearest to the line, y = 3x - 3. Then the equation of the normal to the curve at P is

(1) x + 3y + 26 = 0(2) x + 3y - 62 = 0(3) x - 3y - 11 = 0(4) x - 3y + 22 = 0

Q67. Area (in sq. units) of the region outside $\frac{|x|}{2} + \frac{|y|}{3} = 1$ and inside the ellipse $\frac{x^2}{4} + \frac{y^2}{9} = 1$ is $(1) 6(\pi - 2)$ (2) $3(\pi - 2)$ (3) $3(4-\pi)$ $(4) 6(4 - \pi)$

Q68. Let y = y(x) be the solution of the differential equation, $\frac{2+\sin x}{y+1} \cdot \frac{dy}{dx} = -\cos x, y >$ 0, y(0) = 1. If $y(\pi) = a$ and $\frac{dy}{dx}$ at $x = \pi$ is b, then the ordered pair (a, b) is equal to

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

Q69. The plane passing through the points (1,2,1), (2,1,2) and parallel to the line, 2x = 3y, z = 1 also passes through the point (1) (0,6,-2)(2) (-2,0,1)(3) (0,-6,2)(4) (2,0,-1)

Q70. Box 1 contains 30 cards numbered 1 to 30 and Box 2 contains 20 cards numbered 31 to 50. A box is selected at random and a card is drawn from it. The number on the card is found to be a non-prime number. The probability that the card was drawn from Box 1 is

 $(1)\frac{2}{3}$ $(2)\frac{8}{17}$ $(3)\frac{4}{17}$ $(4)\frac{2}{5}$

Q71. If the letters of the word 'MOTHER' be permuted and all the words so formed (with or without meaning) be listed as in a dictionary, then the position of the word 'MOTHER' is...

Q72. The numbers of integral values of k for which the line, 3x + 4y = k intersects the circle, $x^2 + y^2 - 2x - 4y + 4 = 0$ at two distinct points is....

Q73. If $\lim_{x \to 1} \frac{x + x^2 + x^3 + \dots + x^n - n}{x - 1} = 820$, $(n \in N)$ then the value of *n* is equal to.... Q74. The integral $\int_0^2 ||x - 1| - x| dx$ is equal to Q75. Let \vec{a}, \vec{b} and \vec{c} be three unit vectors such that $|\vec{a} - \vec{b}|^2 + |\vec{a} - \vec{c}|^2 = 8$. Then $|\vec{a} + 2\vec{b}|^2 + |\vec{a} + 2\vec{c}^2$ is equal to

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ANSWER KEYS

1							
1. (4)	2. (1)	3. (1)	4. (1)	5. (2)	6. (3)	7. (4)	8. (3)
9. (1)	10. (1)	11. (1)	12. (2)	13. (4)	14. (2)	15. (4)	16. (2)
17. (4)	18. (1)	19. (2)	20. (3)	21. (3)	22. (46)	23. (4)	24. (15)
25. (9)	26. (4)	27. (4)	28. (1)	29. (2)	30. (3)	31. (1)	32. (4)
33. (4)	34. (2)	35. (2)	36. (3)	37. (3)	38. (2)	39. (1)	40. (3)
41. (2)	42. (3)	43. (4)	44. (1)	45. (2)	46. (96500)	47. (189494)	48. (5)
49. (48)	50. (6)	51. (3)	52. (3)	53. (3)	54. (3)	55. (1)	56. (1)
57. (4)	58. (2)	ma 59. (4)	60. (4)	61. (4)	62. (3)	63. (4)	64. (2) ^a (co
65. (2)	66. (1)	67. (1)	68. (3)	69. (2)	70. (2)	71. (309)	72. (9)
73. (40)	74. (1.5)	75. (2)					

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