Subject Code : 501 Section Code : -Select- Difficulty: 1

Subject Code	Q Id	Questions	Answer Key
501	2101	$\lim_{n\to\infty}\left(1+\frac{1}{n}\right)^n/\left(1-\frac{1}{n}\right)^n$ is (A) e^2 (B) e^{-2} (C) 1 (D) ∞	(A)
501	2102	The sequence $1, 1-\frac{1}{2}, 1+\frac{1}{3}, 1-\frac{1}{4}, \ldots$is (A) bounded but not convergent (B) convergent but not bounded (C) convergent (D) None of these	(C)
501	2103	The sequence$\frac{1}{2}, \frac{1+2}{2.2^2}, \frac{1+2+3}{2.3^2}, \ldots$ (A) Converges to ¼ (B) Converges to 1 (C) diverges (D) None of these	(A)
501	2104	$\log_{x\to 1}\frac{\log x}{x}$ is equal to (A) 0 (B) 1 (C) –1 (D) None of these	(B)
501	2105	If every side of a triangle is doubled, then the area of the new triangle is k times the area of the old triangle. Then the value of k is (A) 4 (B) $\sqrt{2}$ (C) $\sqrt{3}$ (D) 2	(A)

501	2106	If $f(x) = \begin{cases} \frac{\sin x}{x} & when\ x \neq 0 \\ 1 & when\ x = 0 \end{cases}$ then f is (A) bounded (B) discontinuous at x, $x \neq 0$ (C) discontinuous at $x = 0$ (D) continuous at $x = 0$	(D)
501	2107	If $f(x) = x\|x\|$, then f is (A) continuous at = 0 (B) discontinuous at $x = 0$ (C) bounded (D) none of the above	(A)
501	2108	The function f defined by $f(x) = \sin x + \cos x$ is (A) unbounded (B) bounded (C) discontinuous at $x = 0$ (D) none of the above	(B)
501	2109	The function f defined by $f(x)$ = the integral part of x is (A) continuous everywhere (B) discontinuous everywhere (C) continuous when x is not an integer (D) continuous when x is an integer	(C)
501	2110	The eccentricity of the ellipse $16x^2 + 36y^2 = 225$ is (A) $\frac{4}{15}$	(C)

		(B) $\frac{6}{15}$ (C) $\frac{\sqrt{5}}{3}$ (D) $\frac{16}{36}$	
501	2111	$x + 2y + 3z + 4 = 0$ is perpendicular to $x - 2y + az + b = 0$ if (A) $a = 1,\ b = 1$ (B) $a = -1,\ b = 1$ (C) $a = -1,\ b = 0$ (D) $a = 0,\ b = 1$	(A)
501	2112	What will be the reflection of (4, 5) in the second quadrant? (A) (−4, −5) (B) (−4, 5) (C) (4, −5) (D) None of these	(B)
501	2113	$\int_{\square}^{\square}_{\lvert z\rvert=1} ze^{-z}dz$ is equal to (A) e^{-1} (B) $e^{-1} - 1$ (C) 0 (D) None of these	(C)
501	2114	$f(z) = \frac{\bar{z}}{z}$ is (A) analytic at $z = 0$ (B) analytic at $z \neq 0$ (C) nowhere analytic	(C)

		(D) everywhere analytic	
501	2115	$\int secxdx$ is equal to (A) $tan\left(\frac{\pi}{4}+\frac{x}{2}\right)$ (B) log tan x (C) log (sec$x$ + tan$x$) (D) none of these	(C)
501	2116	$\int_0^1 \int_0^2 dxdy$ is equal to (A) 1 (B) 4 (C) 2 (D) $\sqrt{2}$	(C)
501	2117	If $f(x) = x^3 + 7x$, then $\int_{-10}^{10}(x^3 + 7x)dx$ is equal to (A) $2\left(\frac{1}{4}+\frac{7}{2}\right)$ (B) 1070 (C) 2140 (D) None of these	(D)
501	2118	For a Poisson distribution, mean is equal to (A) variance (B) standard deviation (C) square of variance (D) None of these	(A)
501	2119	If var (x) = 4, then var (2x+ 3) is equal to	(D)

		(A) 8 (B) 11 (C) 19 (D) 16	
501	2120	The distribution for which mean a variance is (A) Normal (B) Binomial (C) Poisson (D) None of these	(C)
501	2121	A year is selected at random. The probability that it contains 53 Sundays is (A) $\frac{1}{14}$ (B) $\frac{2}{14}$ (C) $\frac{3}{14}$ (D) $\frac{5}{28}$	(D)
501	2122	$A = \begin{bmatrix} 1 & 2 \\ 4 & a \end{bmatrix}$ is invertible if (A) $a = 8$ (B) $a \neq 8$ (C) a can take any value (D) a can take any non-zero value	(B)
501	2123	The rank of $\begin{bmatrix} 1 & 1 & 1 \\ 2 & 2 & 2 \\ 3 & 3 & 3 \end{bmatrix}$ is (A) 3 (B)	(C)

		2 (C) 1 (D) 0	
501	2124	If $\begin{bmatrix} a & a+b+c \\ a+b+c+d & a+b \end{bmatrix} = \begin{bmatrix} 2 & 5 \\ 6 & 4 \end{bmatrix}$ then (A) a = 1, b = 1, c = 2, d = 1 (B) a = 2, b = 3, c = 4, d = 2 (C) a = 2, b = 4, c = 5, d = 1 (D) a = 2, b = 2, c = 1, d = 1	(D)
501	2125	$x^4 - 1 = 0$ has (A) only complex roots (B) 2 real roots and 2 complex roots (C) 4 real roots (D) 1 real root and 3 complex roots	(B)
501	2126	$x + y + 2z = 7,\ 3x + 3y + 6z = 21$ have (A) no solution (B) a unique solution (C) infinite number of solutions (D) None of these	(C)
501	2127	If α, β, γ are the roots of $x^3 + 3x + 2 = 0$ then (A) $\alpha + \beta = \gamma$ (B) $\beta + \gamma = \alpha$ (C) $\gamma + \alpha = \beta$ (D) $\alpha + \beta = -\gamma$	(D)

501	2128	$x = 2, y = 3$ is the unique solution of (A) $x + y = 5,\ 2x + y = 15$ (B) $x + y = 5,\ 2x + 3y = 13$ (C) $x + 2y = 10,\ 2x + y = 15$ (D) $x + y = 5,\ 2x + 3y = 12$	(B)
501	2129	If w is a n^{th} root of unity then (A) $1 + w^2 + w^4 + \ldots = w + w^3 + w^5 + \ldots$ (B) $w^n = 0$ (C) $w^n = 1$ (D) $w = w^{n-1}$	(C)
501	2130	The roots of the auxiliary equation of $(D^4 - 13D^2 + 36)\,y = 0$ are (A) 4 repeated twice (B) 9 repeated twice (C) $\pm 2,\ \pm 3$ (D) 2, 3	(C)
501	2131	If $Dy = e^{ax}$ then $D^n y$ is equal to (A) $a^n e^{ax}$ (B) $a^{n+1} e^{ax}$ (C) $a^{n-1} e^{ax}$ (D) ae^{nx}	(C)
501	2132	The solution of $\frac{\partial^2 z}{\partial x \partial y} = 0$ is (A) $f(y) + g(x)$ (B) $f(x, y)$ (C)	(A)

		$f(y)\ g(x)$ (D) None of these	
501	2133	$1+n\left(1-\frac{1}{x}\right)+\frac{n(n+1)}{1.2}\left(1-\frac{1}{x}\right)^2+\cdots$ is equal to (A) $\left(1-\frac{1}{x}\right)^{-n}$ (B) $\left(1-\frac{1}{x}\right)^{n}$ (C) $\left(1+\frac{1}{x}\right)^{-n}$ (D) x^n	(D)
501	2134	$\lim_{x\to 1}\frac{\log x}{x-1}$ is equal to (A) 0 (B) 1 (C) -1 (D) None of these	(B)
501	2135	The coefficient of x^5 in the expansion of $\frac{1}{1+x+x^2}$ is (A) 1 (B) -1 (C) 0 (D) None of these	(C)
501	2136	$\overline{A}.\left(\overline{B}\times\overline{C}\right)=0$ implies (A) $\overline{A}=\overline{0}$ (B) $\overline{B}=\overline{0}$ (C) $\overline{C}=\overline{0}$	(D)

		(D) $\overline{A}, \overline{B}, \overline{C}$ are coplanar	
501	2137	If $\overline{r} = xi + yj + zk$ then $\nabla.\overline{r}$ is equal to (A) 3 (B) 0 (C) $\overline{0}$ (D) None of these	(A)
501	2138	$\text{div}(\overline{A} \times \overline{B})$ is equal to (A) $\overline{A}.\text{curl}\,\overline{B} + \overline{B}.\text{curl}\,\overline{A}$ (B) $\overline{B}.\text{curl}\,\overline{A} - \overline{A}.\text{curl}\,\overline{B}$ (C) $\overline{A} \times \text{div}\,\overline{B} + \text{div}\,\overline{A} \times \overline{B}$ (D) None of these	(B)
501	2139	$\nabla \times (\nabla \emptyset)$ is equal to (A) $\nabla^2 \emptyset$ (B) 0 (C) $\overline{0}$ (D) None of these	(C)
501	2140	If α and β are the roots of $x^2 + 2x + 2 = 0$ then $\frac{\alpha}{\beta} + \frac{\beta}{\alpha}$ is (A) 0 (B) 1 (C) -1 (D) 4	(A)
501	2141	If $\lvert A \cup B \rvert = 100$ and $\lvert A \rvert = 60$. ($\lvert A \rvert$ denotes the number of elements of $\lvert A \rvert$),then $\lvert B \rvert$ is (A)	(C)

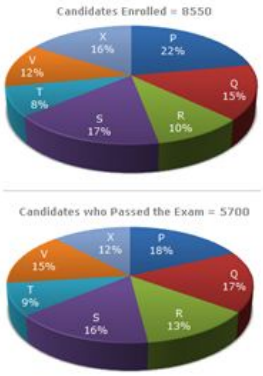
		≤ 40 (B) $= 40$ (C) ≥ 40 (D) ≥ 60	
501	2142	The number of integral solutions of the equation $x + y + z = 3$ is (A) 6 (B) 8 (C) 10 (D) 12	(C)
501	2143	The complementary function of $(x^2D^2 + 3xD + 1)y = \frac{1}{(1+x)^2}$ is (A) $A + B \log x$ (B) $\frac{1}{x}(A + B\ logx)$ (C) $Ae^{2x} + Be^{x}$ (D) None of these	(B)
501	2144	(2, −1, 1), (1, −3, −5), (3, −4, −4) are the vertices of a (A) right-angled triangle (B) isosceles triangle (C) equilateral triangle (D) a triangle of unequal sides	(A)
501	2145	One of the roots of $x^3 - 6x^2 + 11x - 6 = 0$ is 1. The other roots are (A) 2, 3 (B) −2, 3	(A)

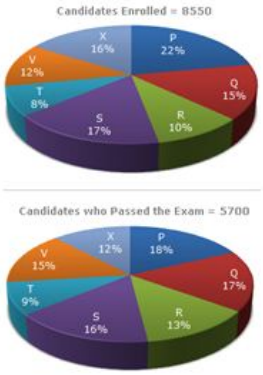
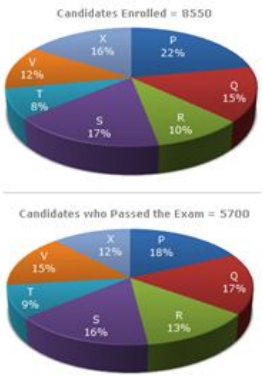
		(C) $-2, -3$ (D) $-1, 6$	
501	2146	If $x^2 + \frac{1}{x^2} = \frac{82}{9}$ then (A) $x = 9, \frac{1}{9}$ (B) $x = \pm 9, \frac{1}{9}$ (C) $3, \pm\frac{1}{3}$ (D) $\pm 3, \pm\frac{1}{3}$	(D)
501	2147	The difference of two numbers is 1365.On dividing the large number by the smaller we get 6 as quotient & 15 as remainder. What is the smaller number? (A) 240 (B) 270 (C) 295 (D) 360	(B)
501	2148	Six bells commence tolling together and toll at intervals 2,4,6,8,10 & 12 seconds respectively. In 30 minutes how many times do they toll together. (A) 10 (B) 15 (C) 16 (D) 18	(C)
501	2149	Find the sum of the terms of a GP $1 + 2/3 + 3/3^2 + 4/3^3 + 5/3^4 + \ldots\ldots$ (A) 3/4 (B) 5/4 (C) 7/4 (D) 9/4	(D)
501	2150	If $x + 1/x = 2$ find $x^2 + 1/x^2$ (A) 1 (B) 2 (C) 3 (D) 4	(B)
501	2151	If $x + y = 2z$ find $\frac{x}{x-z} + \frac{z}{y-z}$ (A) 0	(C)

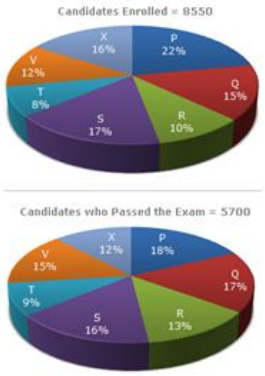
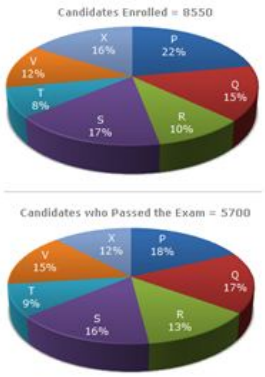
		(B) −1 (C) 1 (D) 2	
501	2152	If $3^{x-y}= 27$ and $3^{x+y}=243$ find the value of x (A) 3 (B) 9 (C) 2 (D) 4	(D)
501	2153	If x+y+z=0, find the value of $\frac{(x+y)(y+z)(z+x)}{xyz}$ (A) 0 (B) 10 (C) −1 (D) 1	(C)
501	2154	The area of a rectangle is the same as that of a circle of radius $\sqrt{35/11}$ cm. If the length of the rectangle exceeds its breadth by 3 cm find the dimensions of the rectangle (A) 5.5, 2.5 (B) 6.5, 3.5 (C) 5, 2 (D) 7, 4	(C)
501	2155	If two pipes function simultaneously, the reservoir will be filled in 6 hours. One pipe fills the reservoir 5 hours faster than the other. How many hours does the faster pipe take to fill the reservoir? (A) 8 hrs (B) 10hrs (C) 11 hrs (D) 12 hrs	(B)
501	2156	If $0.13+p^2 = 13$, then p equals (A) 0.01 (B) 0.1 (C) 10 (D) 100	(B)
501	2157	If the sum of the number and its square is 2070, find the number. (A) 34 (B) 45 (C) 40 (D) 50	(B)
501	2158	If 50% of 40 is greater than 25%of a number by 2, then the number is	(B)

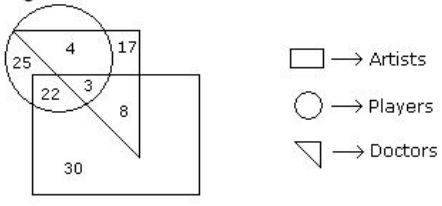
		(A) 12 (B) 16 (C) 20 (D) 24	
501	2159	In an examination of n questions, a student answered 15 out of the first 20 questions correctly. Of the remaining questions he answered one third correctly. The student scored 50% marks. What is the value of n if all the questions have same credit? (A) 45 (B) 50 (C) 52 (D) 60	(B)
501	2160	If the heights of 2 cones are in the ration 1:5 and their diameters are in the ratio 5:6, what is the ratio of their volumes? (A) 0.045833333333333 (B) 0.065972222222222 (C) 0.2125 (D) 0.23333333333333	(D)
501	2161	A boat running upstream takes 8 hrs and 48 minutes to cover a certain distance, while it takes 4hrs to cover the same distance running downstream. What is the ratio between the speed of the boat and speed of the water current? (A) 5:9 (B) 2:1 (C) 8:3 (D) 5:6	(C)
501	2162	Q is 14 km south and 16 km west of P. Find the distance between P&Q (A) 15.6km (B) 18.5 km (C) 21.2 km (D) 24.4 km	(C)
501	2163	Two men start together to walk to a certain destination, one at 3 km/h and another at 3.75 km/h. The later arrivers half an hour before the former. The distance is (A) 6 km (B) 6.5 km (C) 7 km (D) 7.5 km	(D)
501	2164	A square and a rectangle have equal areas. If their perimeters are p1 & p2 respectively, then (A) p1 (B) p1=p2 (C) p1>p2 (D) None of the above	(A)
501	2165	The perimeter of a right angled triangle is 60 cm. Its hypotenuse is 26 cm. The area of the area of the triangle is	(A)

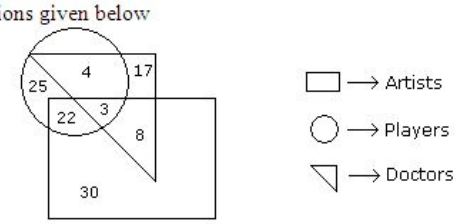
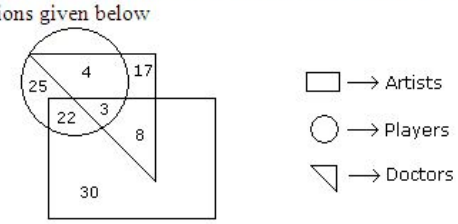
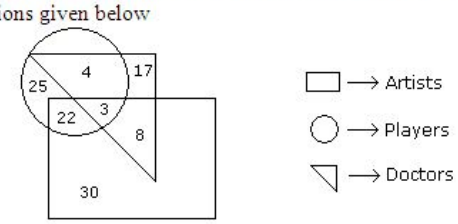
		(A) 120 cm^2 (B) 240 cm^2 (C) 360 cm^2 (D) 440 cm^2	
501	2166	A spherical ball of lead, 3 cm in diameter is melted and recast into 3 spherical balls. The diameter of two of these is 1.5 cm & 2 cm respectively. The diameter of the third ball is (A) 2.5 cm (B) 2.65 cm (C) 2.56 cm (D) 2.67 cm	(A)
501	2167	A box contains 2white balls, 3 black balls & 4 red balls. In how many ways can 3 balls be drawn from the box, if at least one black ball is to be included in the draw (A) 32 (B) 54 (C) 64 (D) 96	(C)
501	2168	A speaks truth in 75% cases and B in 80% of the cases. In what percentage of cases are they likely to contradict each other, narrating the same incident. (A) 0.05 (B) 0.15 (C) 0.35 (D) 0.4	(C)
501	2169	The top of a 15 m tower makes an angle of elevation of 60^o with the bottom of an electric pole and angle of elevation of 30^0 with the top of the pole. What is the height of the electric pole (A) 5 m (B) 8 m (C) 10 m (D) 12 m	(C)
501	2170	The age of the father is 4 times that of his son. Four years ago the father was 6 times as old as his son at that time. What is the present age of the father. (A) 36 yrs (B) 40 yrs (C) 48 yrs (D) 50 yrs	(B)
501	2171	There are some cows and crows in a group. The number of legs is 14 more than the number of heads. The number of cows is (A) 5 (B) 7 (C) 8 (D) 10	(B)

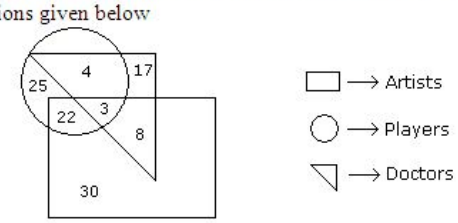
501	2172	Two ships are sailing in the sea on the two sides of a lighthouse. The angle of levation of the top of the lighthouse as observed from the two ships are 30^0 & 45^0 respectively. If the lighthouse is 100m height, the distance between the two ships is (A) 173 m (B) 200 m (C) 273 m (D) 300 m	(C)
501	2173	A sum of Rs. 2000 is lent out in two parts in such a way that the interest on one part at 10% for 5 yrs is equal to that on another at 9% for 6 yrs. The sum lent out at 10% is (A) Rs.1150 (B) Rs.1250 (C) Rs.1350 (D) Rs.1540	(C)
501	2174	A group of boys can do a certain piece of work in 40 days. If the group had 10 more boys the work could be done in 5 days less. How many boys are there in the group. (A) 45 (B) 70 (C) 50 (D) 55	(B)
501	2175	(8 / 88) $\div$ 8888088 = ? (A) 808008 (B) 808080 (C) 808088 (D) 800800	(A)
501	2176	****** CASE QN ****** **Direction :Study the following graph carefully and answer the questions given below:** Distribution of candidates who were enrolled for MBA entrance exam and the candidates (out of those enrolled) who passed the exam in different institutes:  ****** CASE QN ****** What percentage of candidates passed the Exam from institute T out of the total number of candidates enrolled from the same institute? (A) 0.5 (B) 0.625 (C) 0.75	(C)

		(D) 0.8	
501	2177	****** CASE QN ****** **Direction :Study the following graph carefully and answer the questions given below:** Distribution of candidates who were enrolled for MBA entrance exam and the candidates (out of those enrolled) who passed the exam in different institutes:  ****** CASE QN ****** Which institute has the highest percentage of candidates passed to the candidates enrolled? (A) Q (B) R (C) V (D) T	(B)
501	2178	****** CASE QN ****** **Direction :Study the following graph carefully and answer the questions given below:** Distribution of candidates who were enrolled for MBA entrance exam and the candidates (out of those enrolled) who passed the exam in different institutes:  ****** CASE QN ****** The number of candidates passed from institutes S and P together exceeds the number of candidates enrolled from institutes T and R together by (A) 228 (B) 279 (C) 399 (D) 407	(C)
501	2179	****** CASE QN ******	(B)

		Direction :Study the following graph carefully and answer the questions given below: Distribution of candidates who were enrolled for MBA entrance exam and the candidates (out of those enrolled) who passed the exam in different institutes:  ****** CASE QN ****** What is the percentage of candidates passed to the candidates enrolled for institutes Q and R together? (A) 0.68 (B) 0.8 (C) 0.74 (D) 0.65	
501	2180	****** CASE QN ****** **Direction :Study the following graph carefully and answer the questions given below:** Distribution of candidates who were enrolled for MBA entrance exam and the candidates (out of those enrolled) who passed the exam in different institutes:  ****** CASE QN ****** What is the ratio of candidates passed to the candidates enrolled from institute P? (A) 0.38263888888889 (B) 0.59513888888889 (C) 0.25763888888889 (D) 0.38680555555556	(C)
501	2181		(D)

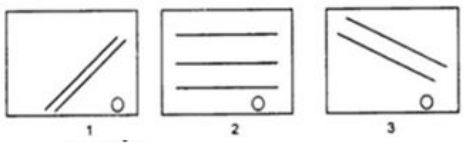
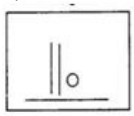
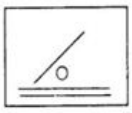
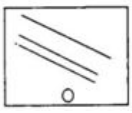
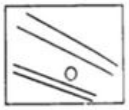
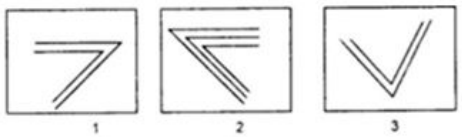
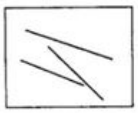
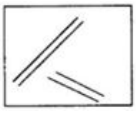
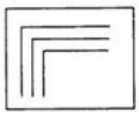
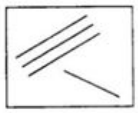
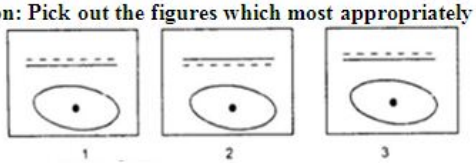
		Which one will replace the question mark? <table><tr><td>A_2</td><td>C_4</td><td>E_6</td></tr><tr><td>G_3</td><td>I_5</td><td>?</td></tr><tr><td>M_5</td><td>O_9</td><td>Q_{14}</td></tr></table> (A) L_{10} (B) K_{15} (C) I_{15} (D) K_8	
501	2182	Which of the following diagrams indicates the best relation between Travelers, Train and Bus? (A)  (B)  (C)  (D) 	(C)
501	2183	Which of the following diagrams indicates the best relation between Women, Mothers and Engineers? (A) (B) (C) (D)	(A)
501	2184	****** CASE QN ****** **Direction :** Study the following figure and answer the questions given below  ****** CASE QN ****** How many doctors are neither artists nor players ? (A) 17 (B) 5 (C) 10 (D) 30	(A)
501	2185	****** CASE QN ******	(C)

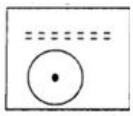
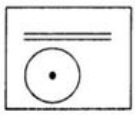
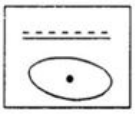
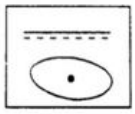
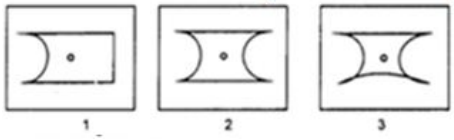
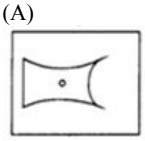
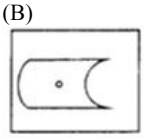
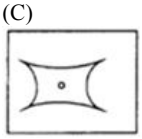
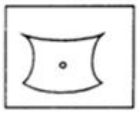
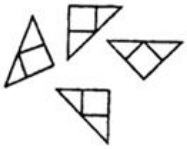
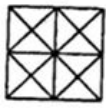
		Direction : Study the following figure and answer the questions given below  ****** CASE QN ****** How many doctors are both players and artists? (A) 22 (B) 12 (C) 3 (D) 30	
501	2186	****** CASE QN ****** **Direction :** Study the following figure and answer the questions given below  ****** CASE QN ****** How many artists are players? (A) 5 (B) 8 (C) 25 (D) 16	(C)
501	2187	****** CASE QN ****** **Direction :** Study the following figure and answer the questions given below  ****** CASE QN ****** How many players are neither artists nor doctors? (A) 25 (B) 17 (C) 5 (D) 10	(A)
501	2188	****** CASE QN ******	(C)

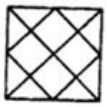
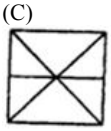
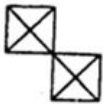
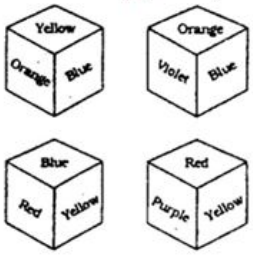
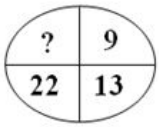
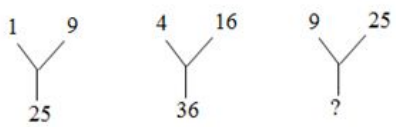
		Direction : Study the following figure and answer the questions given below  ****** CASE QN ****** How many artists are neither players nor doctors? (A) 10 (B) 17 (C) 30 (D) 15	
501	2189	If FRIEND is coded as HUMJTK, how can CANDLE be written in that code? (A) DEQJQM (B) DCQHQK (C) EDRIRL (D) ESJFME	(C)
501	2190	If PALE is coded as 2134, EARTH is coded as 41590, how can is PEARL be coded in that language? (A) 25430 (B) 29530 (C) 25413 (D) 24153	(D)
501	2191	If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH? (A) 216473 (B) 246173 (C) 214673 (D) 214763	(C)
501	2192	If 'eraser' is called 'box', 'box' is called 'pencil', 'pencil' is called 'sharpener', and 'sharpener' is called 'bag', what will a child write with? (A) Eraser (B) Bag (C) Pencil (D) Sharpener	(D)
501	2193	Find the odd one out (A) Vapour (B) Mist (C) Hailstone (D) Fog	(A)
501	2194	Find the odd one out	(B)

		(A) January (B) February (C) July (D) December	
501	2195	**Original Pair : PETAL : FLOWER** (A) salt : pepper (B) tire : bicycle (C) puppy : dog (D) sandals : shoes	(B)
501	2196	Direction:Choose the pair that best represents a similar relationship to the one expressed in the original pair of words. Original Pair : BINDING : BOOK (A) criminal : gang (B) artist : carpenter (C) frame : picture (D) nail : hammer	(C)
501	2197	****** CASE QN ****** **Direction:**Read the following information carefully and answer the questions given below: (i) There is a group of 6 persons A,B,C,D, E & F form a family. They are Professor, Manager, Lawyer, Jeweler, Doctor and Engineer. (ii) The Doctor is the grandfather of F who is a Professor (iii) The Manager D is Married to A (iv) C, the Jeweler is married to the Lawyer (v) B is the mother of E & F (vi) There are two married couples in the family. ****** CASE QN ****** What is the Profession of E? (A) Doctor (B) Manager (C) Professor (D) None of the above	(D)
501	2198	****** CASE QN ****** **Direction:**Read the following information carefully and answer the questions given below: (i) There is a group of 6 persons A,B,C,D, E & F form a family. They are Professor, Manager, Lawyer, Jeweler, Doctor and Engineer. (ii) The Doctor is the grandfather of F who is a Professor (iii) The Manager D is Married to A (iv) C, the Jeweler is married to the Lawyer (v) B is the mother of E & F (vi) There are two married couples in the family. ****** CASE QN ****** How is A related to E? (A) Brother (B) Uncle (C) Father (D) Grandfather	(D)

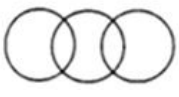
501	2199	****** CASE QN ****** **Direction:**Read the following information carefully and answer the questions given below: (i) There is a group of 6 persons A,B,C,D, E & F form a family. They are Professor, Manager, Lawyer, Jeweler, Doctor and Engineer. (ii) The Doctor is the grandfather of F who is a Professor (iii) The Manager D is Married to A (iv) C, the Jeweler is married to the Lawyer (v) B is the mother of E & F (vi) There are two married couples in the family. ****** CASE QN ****** How many male members are there in the family? (A) One (B) Three (C) Four (D) Can't be determined	(D)
501	2200	****** CASE QN ****** **Direction:**Read the following information carefully and answer the questions given below: (i) There is a group of 6 persons A,B,C,D, E & F form a family. They are Professor, Manager, Lawyer, Jeweler, Doctor and Engineer. (ii) The Doctor is the grandfather of F who is a Professor (iii) The Manager D is Married to A (iv) C, the Jeweler is married to the Lawyer (v) B is the mother of E & F (vi) There are two married couples in the family. ****** CASE QN ****** What is the profession of A? (A) Doctor (B) Lawyer (C) Jeweler (D) Manager	(A)
501	2201	****** CASE QN ****** **Direction:**Read the following information carefully and answer the questions given below: (i) There is a group of 6 persons A,B,C,D, E & F form a family. They are Professor, Manager, Lawyer, Jeweler, Doctor and Engineer. (ii) The Doctor is the grandfather of F who is a Professor (iii) The Manager D is Married to A (iv) C, the Jeweler is married to the Lawyer (v) B is the mother of E & F (vi) There are two married couples in the family. ****** CASE QN ****** Which of the following is one of the pairs of couple in the family? (A) AB (B) AC (C) AD (D) Can't be determined	(C)
501	2202		(D)

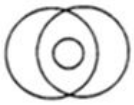
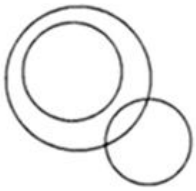
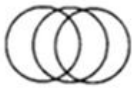
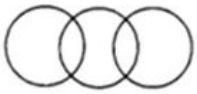
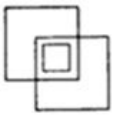
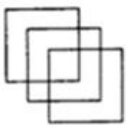
		Direction: Pick out the figures which most appropriately completes the series.  (A)  (B)  (C)  (D) 	
501	2203	**Direction: Pick out the figures which most appropriately completes the series.**  (A)  (B)  (C)  (D) 	(C)
501	2204	**Direction: Pick out the figures which most appropriately completes the series.**  (A)	(D)

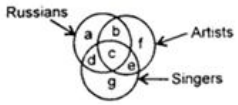
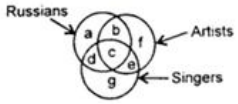
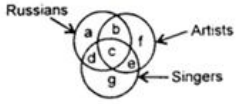
		 (B)  (C)  (D) 	
501	2205	**Direction: Pick out the figures which most appropriately completes the series.**  1 2 3 (A)  (B)  (C)  (D) 	(C)
501	2206	Among the four answer figures, which can be formed from the cut-pieces given below?  (A)  (B)	(B)

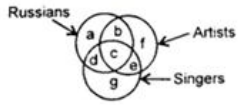
		 (C)  (D) 	
501	2207	Which colour is opposite to yellow?  (A) Violet (B) Red (C) Purple (D) Blue	(A)
501	2208	**Direction: Fill up the blanks.**  (A) 40 (B) 38 (C) 39 (D) 44	(B)
501	2209	**Direction: Fill up the blanks.**  (A) 47 (B) 49 (C) 50 (D) 57	(B)
501	2210		(B)

		Direction: Fill up the blanks. 3 ? 5 5 4 7 4 4 4 60 96 140 (A) 4 (B) 6 (C) 8 (D) 9	
501	2211	****** CASE QN ****** **Direction : According to a certain code,** □ means, 'is greater than' Δ means, 'is smaller than' ⊙ means, 'is equal to' ≠ means, 'is not equal to' Now answer the following: ****** CASE QN ****** If A ◆ B; C D B and D € C, then (A) C DA (B) D ◆A (C) C ◆D (D) B DD	(A)
501	2212	****** CASE QN ****** **Direction : According to a certain code,** □ means, 'is greater than' Δ means, 'is smaller than' ⊙ means, 'is equal to' ≠ means, 'is not equal to' Now answer the following: ****** CASE QN ****** If A◆ C; C D B and B € A, then (A) A €C (B) A DC (C) B DA (D) A ◆C	(D)
501	2213	****** CASE QN ****** **Direction : According to a certain code,** □ means, 'is greater than' Δ means, 'is smaller than' ⊙ means, 'is equal to' ≠ means, 'is not equal to' Now answer the following: ****** CASE QN ****** If AC €BD; AB◆ CD and AD◆BC, hence (A) C €B (B) A is the greatest (C) AD B (D) A D C	(B)
501	2214	****** CASE QN ******	(C)

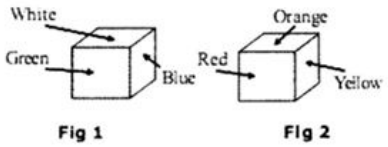
		Direction : According to a certain code, □ means, 'is greater than' Δ means, 'is smaller than' ⊙ means, 'is equal to' ≠ means, 'is not equal to' Now answer the following: ****** CASE QN ****** A ◆ DC; B ◆ AC, therefore (A) AB ◆ DC (B) C ◆ B (C) C D A (D) C is the greatest	
501	2215	**Direction:** In each of the following, arrange the given words in a meaningful sequence from amongst the alternatives provided below each question. 1) College 2) Child 3) Salary 4) School 5) Employment (A) 1, 2, 3, 4, 5 (B) 2, 4, 1, 5, 3 (C) 4, 1, 3, 5, 2 (D) 5, 3, 2, 1, 4	(B)
501	2216	**Direction:** In each of the following, arrange the given words in a meaningful sequence from amongst the alternatives provided below each question. 1) Income 2) Status 3) Education 4) Well-being 5) Job (A) 1, 3, 2, 5, 4 (B) 1, 2, 5, 3, 4 (C) 3, 1, 5, 2, 4 (D) 3, 5, 1, 2, 4	(D)
501	2217	**Direction:** In each of the following, arrange the given words in a meaningful sequence from amongst the alternatives provided below each question. 1) Yarn 2) Plant 3) Saree 4) Cotton 5) Cloth (A) 2, 4, 1, 5, 3 (B) 2, 4, 3, 5, 1 (C) 2, 4, 5, 1, 3 (D) 2, 4, 5, 3, 1	(A)
501	2218	Which of the following combination of figures best represents doctors, patients and females? (A)  (B)	(C)

		 (C)  (D) 	
501	2219	Which of the following combinations of figures best represents doctors, teachers, engineers? (A)  (B)  (C)  (D) 	(B)
501	2220	Which of the following combination of figures best represents males, fathers, human beings? (A)  (B)  (C)  (D)	(A)
501	2221	****** CASE QN ******	(C)

		Direction : In the following diagrams there are three intersecting circles each representing certain sections of people. Different regions are marked a-g. Read the statements of questions below and choose the letter of the region which correctly represents the statements?  ****** CASE QN ****** Russians who are artists but not singers? (A) key not correct check (B) c (C) b (D) g	
501	2222	****** CASE QN ****** **Direction :** In the following diagrams there are three intersecting circles each representing certain sections of people. Different regions are marked a-g. Read the statements of questions below and choose the letter of the region which correctly represents the statements?  ****** CASE QN ****** Artists who are neither Russians nor singers (A) g (B) c (C) f (D) b	(C)
501	2223	****** CASE QN ****** **Direction :** In the following diagrams there are three intersecting circles each representing certain sections of people. Different regions are marked a-g. Read the statements of questions below and choose the letter of the region which correctly represents the statements?  ****** CASE QN ****** Russians who are singers but not artists. (A) a (B) b (C) c (D) d	(D)
501	2224	****** CASE QN ******	(C)

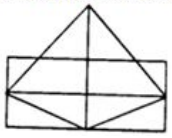
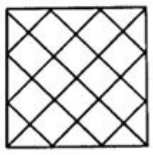
		Direction : In the following diagrams there are three intersecting circles each representing certain sections of people. Different regions are marked a-g. Read the statements of questions below and choose the letter of the region which correctly represents the statements?  ****** CASE QN ****** Russians who are artists as well as singers? (A) a (B) b (C) c (D) d	
501	2225	****** CASE QN ****** **Direction:** The following questions consist of two words each that have a certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as the original pair of words: ****** CASE QN ****** **Revolution : Change** (A) Disease : Medicine (B) Treaty : Peace (C) Food : Energy (D) Famous : Notorious	(B)
501	2226	****** CASE QN ****** **Direction:** The following questions consist of two words each that have a certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as the original pair of words: ****** CASE QN ****** **Sphere : Ball** (A) Circle : Disc (B) Cube : Dice (C) Line : Rope (D) Triangle : Cone	(B)
501	2227	****** CASE QN ****** **Direction:** The following questions consist of two words each that have a certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as the original pair of words: ****** CASE QN ****** **Question : Question Mark** (A) Remark : Colon (B) Aside : Parentheses (C) Sentence : Period	(B)

		(D) Clause : Semicolon	
501	2228	****** CASE QN ****** **Direction:** The following questions consist of two words each that have a certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as the original pair of words: ****** CASE QN ****** **Square : Cube** (A) Triangle : Prism (B) Circle : Sphere (C) Line : Cylinder (D) Sphere : Earth	(A)
501	2229	****** CASE QN ****** **Direction:** The following questions consist of two words each that have a certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as the original pair of words: ****** CASE QN ****** **Editor : Magazine** (A) Director : Film (B) Novel : Writer (C) Psychiatrist : Neurotic (D) Librarian : Library	(B)
501	2230	****** CASE QN ****** **Direction:** The following questions consist of two words each that have a certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as the original pair of words: ****** CASE QN ****** 1, 8, 27, 64, 125, 216, (.....) (A) 354 (B) 343 (C) 392 (D) 245	(B)
501	2231	****** CASE QN ****** **Direction:** The following questions consist of two words each that have a certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as the original pair of words: ****** CASE QN ****** 128, 110, 90, (.....), 44 (A) 56 (B) 68 (C) 70	(B)

		(D) 72	
501	2232	****** CASE QN ****** **Direction:** The following questions consist of two words each that have a certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as the original pair of words: ****** CASE QN ****** 1/81, 1/54, 1/36, 1/24, (.....) (A) 1/32 (B) 1/9 (C) 1/16 (D) 1/18	(C)
501	2233	****** CASE QN ****** **Direction:** The following questions consist of two words each that have a certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as the original pair of words: ****** CASE QN ****** 13, 31, 63, 127, 255, (.....) (A) 513 (B) 511 (C) 517 (D) 523	(C)
501	2234	In the following figures, two six sided blocks are given. Each side of the block is painted as shown in Fig.1 and Fig.2. The sides are white, yellow, orange, green, red and blue and orange and white are opposite to each other. The arrangement of colour is shown on the blocks:  **Fig 1** **Fig 2** When blue colour is on top, which colour will be at the bottom? (A) Red (B) Green (C) Blue (D) Yellow	(D)
501	2235	****** CASE QN ****** **Read the following statements and answer the questions given below** 1) A and B play football and hockey 2) C and D play badminton and cricket 3) B and C play cricket and football 4) A and D play hockey and badminton ****** CASE QN ****** Which one plays badminton, football and hockey?	(A)

		(A) A (B) B (C) C (D) D	
501	2236	****** CASE QN ****** **Read the following statements and answer the questions given below** 1) A and B play football and hockey 2) C and D play badminton and cricket 3) B and C play cricket and football 4) A and D play hockey and badminton ****** CASE QN ****** One who plays badminton, football and cricket is (A) A (B) B (C) C (D) D	(C)
501	2237	****** CASE QN ****** **Read the following statements and answer the questions given below** 1) A and B play football and hockey 2) C and D play badminton and cricket 3) B and C play cricket and football 4) A and D play hockey and badminton ****** CASE QN ****** One who plays cricket, football and hockey (A) A (B) B (C) C (D) D	(B)
501	2238	****** CASE QN ****** **Read the following statements and answer the questions given below** 1) A and B play football and hockey 2) C and D play badminton and cricket 3) B and C play cricket and football 4) A and D play hockey and badminton ****** CASE QN ****** One who does not play cricket (A) A (B) B (C) C (D) D	(A)
501	2239	****** CASE QN ****** **Direction:** In each of the questions below, find out the correct answer from the given alternatives: ****** CASE QN ****** If in a certain language NATURE is coded as MASUQE, how is FAMINE coded in that code? (A) FBMJND	(D)

		(B) FZMHND (C) GANIOE (D) EALIME	
501	2240	****** CASE QN ****** **Direction:** In each of the questions below, find out the correct answer from the given alternatives: ****** CASE QN ****** If in a certain language PENSION is coded as NEISNOP, how is FOLIAGE coded in that code? (A) OFILGAE (B) EOAILGF (C) FGLIAOE (D) EGAILOF	(B)
501	2241	****** CASE QN ****** **Direction:** In each of the questions below, find out the correct answer from the given alternatives: ****** CASE QN ****** In a certain code CHAIR is written as EGCHD. How is AUDIT written in that code? (A) CTFHV (B) CSFHV (C) BTFHV (D) CTEHV	(A)
501	2242	****** CASE QN ****** **Direction:** In each of the questions below, find out the correct answer from the given alternatives: ****** CASE QN ****** If in a certain code MOUNTAIN is written as OMNUATNI. How is READER written in that code? (A) ERADRE (B) ERDARE (C) READER (D) RAERDE	(B)
501	2243	****** CASE QN ****** **Direction:** In each of the following questions the first two words (given in italics) have definite relationship. Choose one word out of the given four alternatives which will fill in the blank space and show the same relationship with the third word as between the first two ****** CASE QN ****** *Constitution* is to *Amendment* as *Book* is to .....?..... (A) Errata (B) Contents (C) Preface (D) Acknowledgement	(A)
501	2244	****** CASE QN ****** **Direction:** In each of the following questions the first two words (given in italics) have definite relationship. Choose one word out of the given four alternatives which will fill in the blank space and show the same relationship with the third word as between the first two ****** CASE QN ******	(D)

		Book is to *Publisher* as *Film* is to .....?..... (A) Writer (B) Editor (C) Director (D) Producer	
501	2245	****** CASE QN ****** **Direction:** In each of the following questions the first two words (given in italics) have definite relationship. Choose one word out of the given four alternatives which will fill in the blank space and show the same relationship with the third word as between the first two ****** CASE QN ****** *Exercise* is to *Obesity* as *Water* is to .....?..... (A) Thirst (B) Alcohol (C) Drink (D) Purity	(A)
501	2246	'JKLM' is related to 'XYZA' in the same ways as 'NOPQ' is related to (A) BCDE (B) IJKL (C) RSTU (D) YZAB	(A)
501	2247	If in a certain code CLEAR is written as NXIJH, how can REAL be written in that code? (A) HIJX (B) HJIX (C) HIJN (D) HNJX	(A)
501	2248	Count the number of triangles in the figure given below:  (A) 11 (B) 13 (C) 15 (D) 17	(C)
501	2249	Find the number of triangles in the following figure:  (A) 28 (B) 32	(C)

		(C) 36 (D) 40	
501	2250	How many 7's are there in the following number Sequence which are immediately followed by 6 and also immediately preceded by 8? 6 8 7 6 5 8 7 8 3 7 6 6 7 8 7 6 7 6 (A) None (B) One (C) Two (D) Three	(C)