



MaaRula MCA Entrance Classes

AMIT KATIYAR (MCA.JNU)

NIMCET OPEN MOCK TEST #18

DATE :11-JUL-2021

- $\frac{\tan \theta}{1 - \cot \theta} + \frac{\cot \theta}{1 - \tan \theta}$ is equal to
(a) $1 + \tan \theta \sec \theta$ (b) $1 + \sec \theta \csc \theta$
(c) $1 + \sec \theta$ (d) none
- An arithmetic has 3 as its first term also the sum of the first 8 term is twice the sum of the 5 term. Find the common difference?
(a) $\frac{1}{4}$ (b) $\frac{1}{2}$ (c) $\frac{3}{4}$ (d) none
- $f(x) = \int_{-2}^x (ax^5 + bx^3 + c) dx$ integral value depend on
(a) c (b) a & b (c) only b (d) none
- If the angles of elevation of the top of a tower from three collinear points A, B and C, on a line leading to the foot of the tower, are $30^\circ, 45^\circ, 60^\circ$ respectively, then the ratio, AB : BC
(a) $\sqrt{3}:1$ (b) $\sqrt{3}:2$ (c) $1:\sqrt{3}$ (d) none
- Forces acting on a particle have magnitudes of 5, 3, 1 units act in the direction of vectors $6\hat{i} + 2\hat{j} + 3\hat{k}, 3\hat{i} - 2\hat{j} + 6\hat{k}$ and $2\hat{i} - 3\hat{j} - 6\hat{k}$ respectively they remain constant while the particle is displaced from if $A(2, -1, -3), B(5, -1, 1)$ the work done is equal to
(a) 30 (b) 33 (c) 36 (d) none
- The angle between the two circles of $x^2 + y^2 = 4$ and $x^2 + (y - 1)^2 = 4$
(a) $\cos^{-1}(\frac{5}{6})$ (b) $\cos^{-1}(\frac{2}{3})$ (c) $\cos^{-1}(\frac{1}{3})$ (d) none
- $\sin 10^\circ \sin 50^\circ \sin 70^\circ$ is equal to
(a) $\frac{1}{8}$ (b) $\frac{1}{4}$ (c) $\frac{1}{16}$ (d) none
- $x^2 + 16y^2 = 16$, is the equation of ellipse find an equation of tangent to the ellipse having an angle of 60° with x-axis.
(a) $\sqrt{3}y + x - 8 = 0$ (b) $\sqrt{3}y + x - 7 = 0$ (c) $\sqrt{3}x - y + 7 = 0$ (d) none
- A child had a birthday party in which he invited 3 of his friend there are 10 game in the party of which every game has a prize if every child get at least one prize find in how many ways prize distributed among children.
(a) 24 (b) 84 (c) 90 (d) none
- If $\frac{\tan x}{2} = \frac{\tan y}{3} = \frac{\tan z}{5}$ and $x + y + z = \pi$ then value of $\tan^2 x + \tan^2 y + \tan^2 z$ is
(a) $\frac{38}{3}$ (b) 38 (c) 114 (d) none
- A and B play a game where each is asked to select a no from 1 to 25. If the 2 no. match, both of them win the prize. The probability that they will not win a prize in single trial
(a) $1/25$ (b) $24/25$ (c) $2/25$ (d) not
- $\int e^x \left(\frac{1 + \sin x \cos x}{\cos x} \right) dx$
(a) $e^x \tan x + c$ (b) $e^x \sec x + c$ (c) $e^x \sec x \tan x + c$ (d) none
- $a + b + c = 0$ then find $\frac{a^2}{bc} + \frac{b^2}{ca} + \frac{c^2}{ab} = ?$
(a) 4 (b) 3 (c) 2 (d) none
- $A = \{1, 2, 3\}$ no. of subset of power set of A.
(a) 7 (b) 8 (c) 9 (d) none
- If $a + b + c$ collinear with d & $b + c + d$ collinear with a then $a + b + c + d = ?$
(a) 0 (b) AB (c) A (d) none
- $\tan\left(\frac{\pi}{4} + \frac{\theta}{2}\right)$ is equal to
(a) $\sec \theta - \tan \theta$ (b) $-\tan \theta$
(c) $\sec \theta + \tan \theta$ (d) none
- $\sin^2 x - \sin x - 2 = 0$ then value of x is if x is belong to $[0, 2\pi]$ is
(a) $-\frac{\pi}{2}$ (b) $\frac{\pi}{2}$ (c) $\frac{\pi}{3}$ (d) none
- $\cos x = \tan y, \cos y = \tan z, \cos z = \tan x$ then $\sin x = ?$
(a) $\frac{(\sqrt{5}-1)}{2}$ (b) $\frac{(\sqrt{5}+1)}{4}$ (c) $\frac{(\sqrt{5}+1)}{2}$ (d) none
- $f(x) = \begin{cases} x^2, & x \leq 0 \\ x \sin x, & x > 0 \end{cases}$ is and $x = 0$ it is n point of
(a) maxima (b) minima (c) discontinuity (d) none
- If $\vec{a}, \vec{b}, \vec{c}$ are three non-coplanar vector, then $(\vec{a} + \vec{b} + \vec{c}) \cdot [(\vec{a} + \vec{b}) \times (\vec{a} + \vec{c})]$ equals
(a) 0 (b) $[\vec{c}\vec{b}\vec{c}]$ (c) $2[\vec{c}\vec{b}\vec{c}]$ (d) $[-\vec{a}\vec{b}\vec{c}]$
- $i - 2j + 2k, 2i + j - k, 3i - j + 2k$ vertices which type of Δ is
(a) right angle (b) obtuse (c) equilateral (d) none
- If $A = \{4^n - 3n - 1, n \in \mathbb{N}\}$ and $B = \{9(n-1), n \in \mathbb{N}\}$ then
(a) $A \subset B$ (b) $A \subseteq B$ (c) $B \subseteq A$ (d) none
- In a class of 50 students, it was found that 30 students read "Hitavad", 35 students read "Hindustan" and 10 read neither. How many students read both: "Hitavad" and "Hindustan" newspapers?
(a) 25 (b) 20 (c) 15 (d) 30
- There is a young boy's birthday party in which 3 friends have attended. The mother has arranged 10 games where a prize is awarded for winning game. The prizes are identical. If each of the 4 children receives at least one prize, then how many distributions of prizes are possible?
(a) 80 (b) 84 (c) 70 (d) 72
- A set of consecutive positive integers beginning with 1 is written on the blackboard. A student came along and erased one number. The average of the remaining numbers is $35\frac{7}{17}$. What was the number erased?
(a) 7 (b) 8
(c) 9 (d) None of the above
- For the two circles $x^2 + y^2 = 16$ and $x^2 + y^2 - 2y = 0$, there is / are
(a) One pair of common tangents
(b) Two pair of common tangents
(c) Three common tangents
(d) No common tangents
- Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = \begin{cases} x \sin \frac{1}{x}, & x > 0 \\ 0, & x \leq 0 \end{cases}$ then
(a) f is neither continuous nor differentiable at 0.
(b) f is continuous and differentiable at 0.
(c) f is continuous but not differentiable at 0.
(d) f is not continuous but differentiable at 0.
- A particle P starts from the point $z_0 = 1 + 2i$, where $i = \sqrt{-1}$. It moves first horizontally away from the origin by 5 units and then vertically away from the origin by 3 units to reach a point z_1 from z_2 the particle moves $\sqrt{2}$ units in the direction on a circle with centre at the origin, to reach a point z_2 . the point z_2 is given by
(a) $6 + 7i$ (b) $-7 + 6i$
(c) $7 + 6i$ (d) $-6 + 7i$
- Let $x_i, i = 1, 2, \dots, n$ be n observations and $w_i = px_i + k, i = 1, 2, \dots, n$ where p and k are constants. If the mean of x_i is 48 and standard deviation is 12, whereas the mean of w_i is 55 and standard deviation is 15, then values of p and k should be
(a) $p = 1.25, k = -5$ (b) $p = -1.25, k = 5$
(c) $p = 2.5, k = -5$ (d) $p = 2.5, k = 5$
- If $a, a_1, a_2, a_3, \dots, a_{2n-1}, b$ are in AP, $a, b_1, b_2, b_3, \dots, b_{2n-1}, b$ are in GP and $a, c_1, c_2, c_3, \dots, c_{2n-1}$ are in HP, where a, b are positive, then the equation $a_n x^2 - b_n x + c_n = 0$ has its roots
(a) Real and equal (b) Real and unequal
(c) imaginary (d) one real and one imaginary
- If a, b, c are in GP and $\log a - \log 2b, \log 2b - \log 3c$ and $\log 3c - \log a$ are in AP, then a, b, c are the lengths of the sides of a triangle which is
(a) Acute angled (b) obtuse angled
(c) Right angled (d) Equilateral
- If $(1 + x - 2x^2)^6 = 1 + a_1x + a_2x^2 + \dots + a_{12}x^{12}$ the of $a_2 + a_4 + a_6 + \dots + a_{12}$ is
(a) 29 (b) 30 (c) 31 (d) 32
- If a man purchases a raffle ticket, he can win a first prize of Rs. 5,000 or a second prize of Rs. 2,000 with probabilities 0.001 and 0.003 respectively. What should be a fair price to pay for the ticket?
(a) Rs. 11 (b) Rs. 15
(c) Rs. 2000 (d) none
- If the mean deviation of the number $1, 1 + d, 1 + 2d, \dots, 1 + 100d$ from their mean is 255, then d is equal to
(a) 10.1 (b) 10.2 (c) 10.3 (d) 10.4
- Let S be the set $\{a \in \mathbb{Z}^+: a \leq 100\}$, if the equation $[\tan^2 x] - \tan x - a = 0$ has real roots (where $[\]$ is the greatest integer function), then the number of element in S is
(a) 10 (b) 8 (c) 9 (d) 0
- \vec{a} and \vec{b} are non zero non collinear vectors such that $|\vec{a}| = 2, \vec{a} \cdot \vec{b} = 1$ and the angle between \vec{a} and \vec{b} is $\frac{\pi}{3}$. If \vec{r} is any vector satisfying $\vec{r} \cdot \vec{a} = 2, \vec{r} \cdot \vec{b} = 8, (\vec{r} + 2\vec{a} - 10\vec{b}) \cdot (\vec{a} \times \vec{b}) = 6$ and $\vec{r} + 2\vec{a} - 10\vec{b} = \lambda(\vec{a} \times \vec{b})$, then $\lambda =$
(a) $1/2$ (b) 2 (c) 3 (d) $\frac{4}{\sqrt{3}}$
- If $\int_{\log 2}^x \frac{1}{\sqrt{e^x - 1}} dx = \frac{\pi}{6}$, then $x =$
(a) $\log 4$ (b) $2 \log 2$ (c) $3 \log 2$ (d) $4 \log 2$
- If S and S' are foci of the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ B is the end of the minor axis and BSS' is an equilateral triangle, then the eccentricity of the ellipse is
(a) $1/2$ (b) $1/3$ (c) $1/4$ (d) $1/5$
- In a parallelogram ABCD, P is the midpoint of AD. Also, BP and AC intersect at Q. then AQ : QC =
(a) 1:3 (b) 3:1 (c) 2:1 (d) 1:2
- Let $p(x)$ be a quadratic polynomial such that $p(0) = 1$. If $p(x)$ leaves remainder 4 when divided by $x - 1$ and it leaves remainder 6 when divided by $x + 1$, then
(a) $p(-2) = 11$ (b) $p(2) = 11$
(c) $p(2) = 19$ (d) $p(-2) = 19$
- The tangent at the point (2, -2) to the curve $x^2y^2 - 2x = 4(1 - y)$ does not pass through the point
(a) (-2, -7) (b) (-4, -9)
(c) $(4, \frac{1}{3})$ (d) (8, 5)
- The curve satisfying the differential equation, $yx dx - (x + 3y^2) dy = 0$ and passing through the point (1, 1) also passes through the point
(a) $(\frac{1}{4}, \frac{1}{2})$ (b) $(\frac{1}{4}, -\frac{1}{2})$
(c) $(-\frac{1}{3}, \frac{1}{3})$ (d) $(\frac{1}{3}, -\frac{1}{3})$
- $\lim_{x \rightarrow 3} \frac{\sqrt{3x-3}}{\sqrt{2x-4}-\sqrt{2}}$ is equal to
(a) $\frac{3}{2}$ (b) $\frac{\sqrt{2}}{2}$ (c) $\frac{1}{2\sqrt{2}}$ (d) $\frac{1}{\sqrt{2}}$
- Number of onto (surjective) functions from A to B if $n(A) = 6$ and $n(B) = 3$ is
(a) $2^6 - 2$ (b) $3^6 - 3$
(c) 340 (d) 540
- If $A > 0, B > 0$ and $A + B = \frac{\pi}{6}$, then the minimum value of $\tan A + \tan B$ is
(a) $\sqrt{3} - \sqrt{2}$ (b) $4 - 2\sqrt{3}$
(c) $2/\sqrt{3}$ (d) $2 - \sqrt{3}$
- The mean of 5 observations is 5 and their variance is 124. if three of the observations are 1, 2, 6 then the mean deviation from the mean of the data is
(a) 2.5 (b) 2.6 (c) 2.8 (d) 2.4
- In a beauty contest, half the number of experts voted Mr. A and two thirds voted for Mr. B. 10 voted for both and 6 did not for either. How many experts were there in all?
(a) 18 (b) 36 (c) 24 (d) none
- The value of non zero scalars α and β such that for all vectors \vec{a} and \vec{b} such that $\alpha(\vec{a} + 2\vec{b}) - \beta\vec{a}(4\vec{b} - \vec{a}) = \vec{0}$ is
(a) $\alpha = 0, \beta = 0$ (b) $\alpha = -2, \beta = -3$
(c) $\alpha = 1, \beta = 3$ (d) none
- A force of 78 grams acts at the point (2, 3, 5) the direction ratios of the line of action being 2, 2, 1 the magnitude of its moment about the line joining the origin to the point (12, 3, 4) is
(a) 24 (b) 36 (c) 136 (d) 0
- Number of real solutions of the equation $\ln e^x = 5^x + 5^{-x}$ is
(a) 1 (b) 2 (c) 0 (d) infinitely many
- Statement - I : out of total of 200 readers, 100 read Indian express, 120 read times of India and 50 read Hindu.
Statement - II: out of a total of 200 readers 100 read Indian express, 120 read times of India and 50 read neither.
How many people (from the group surveyed) read both Indian Express and Times of India?
(a) the question can be answered with the help of statement II. Alone
(b) Both, statement I and Statement II are needed to answer the question
(c) the question can be answered with the help of statement I alone
(d) the question cannot be answered even with the help of both the statements.
- Study the information carefully and answer the question given below:
If we arrange the alphabets in the word "RATE" in the English alphabetical order, word "AERT" is formed. Then the third alphabet form the left in this word is "R" form the word "OPEN" we get - "ENOP" and the third alphabet from left is "O". from the word "CHEF" we get - "CEFH" and the third alphabet form left is "F". form the word "TYER" we get "ERTY" and the third alphabet from left is "T": from the word "TOY" we get - "OTY" and the third alphabet from left is "Y" if we use all these letters, then a meaningful English word "FORTY" can be formed.
Now find which of the following word set DOES NOT give a meaningful word in the similar way
(a) SAME, ROOM, BEST, AUTO (b) GOAT, PEST, WATT, ARMY
(c) MALE, FIND, LOST, THAT (d) JUMP, LIME, DUMB, SOME
- If the point $P(a^2, a)$ lie in the region corresponding to the acute angle between the lines, $2y = x$ and $4y = x$, then find the value of a or the range in which a lies.
(a) $a \in (2, 6)$ (b) $a \in (4, 6)$ (c) $a \in (2, 4)$ (d) $a \in (10, 14)$
- Some friends planned to contributes equally to jointly buy a CD player. However, two of them decided to withdraw at the last minute. As a result, each of the others had shell out one rupee more than what they had planned for. If the price (in Rs.) of the CD player is an integer between 1000 and 1100, find the number of friends who actually contributed?
(a) 44 (b) 23 (c) 21 (d) 46
- Two liquids A and B are in the ratio 5 : 1 in container 1 and 1 : 3 in container 2 respectively. In what ratio should the contents of the two containers be mixed so as to obtain a mixture of A and B in the ratio 1 : 1?
(a) 2:3 (b) 4:3 (c) 3:2 (d) 3:4
- Fresh grapes contain 90% by weight while dried grapes contain 20% water by weight. What is the weight of dry grapes available from 20 kg of fresh grapes?
(a) 2.5kg (b) 2.4kg (c) 2kg (d) 10kg

DIRECTIONS FOR QUESTIONS 57 AND 58 ANSWER THE QUESTIONS ON THE BASIS OF THE INFORMATION GIVEN BELOW:

A, B, C, D, E, and F are a group of friends. There are two housewives, one professor, one engineer, one accountant and one lawyer in the group. There are only two married couples in the group. The lawyer is married to D, who is a housewife. No woman in the group is either an engineer or an accountant. C, the accountant, is married to F, who is a professor. A is married to a housewife. E is not a housewife.

- What is E's profession?
(a) Accountant (b) Lawyer
(c) Professor (d) Engineer
- How many members of the group are males?

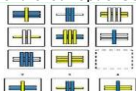


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- (a)4 (b)2 (c)3 (d)cannot be determined
59. How may 4 digit numbers can be formed from the digit 2,3,5,6,7 and 9, which are divisible by 5 and none of the digits is repeated?
(a)216 (b)60 (c)24 (d)25
60. A dealer offers a cash discount of 20% and still makes a profit of 20% when he further allows 16 articles to a dozen to a particularly sticky bargainer. How much above the actual price was the listed price of the article?
(a)100% (b)80% (c)75% (d)66%
- Question 61,62 and 63 are based on the following :**
Twelve classmates A, B, C, D, E, F, G, H, I, J, K and L are sitting on a square table with 3 persons on each side, ABC and GJK are sitting on opposite side A and L are adjacent to each other but not on the same side. D and E are on the same side but not adjacent to each other. K is sitting diagonally opposite to C.
61. If F is sitting between D and E, who is sitting to the left of K?
(a)H (b)I (c)H or I (d)None
62. If H is sitting between L and F, then he will be facing
(a)D (b)E (c)G (d)I
63. If G and E are facing C and H respectively, the neighbors of k are
(a)J and H (b)J and E (c)H and J (d)H and E
64. A clock is set right at 5 AM. The clock loses 16m in 24th. what will be the night time when the clock indicates 10pm on the 4th day?
(a)11.15pm (b)11.00 pm (c)12.00pm (d)12.30pm
65. A train overtakes two persons who are walking in the same direction in which the train is moving at the rate of 2kmph and 2kmph and passes them completely in 9 and 10 seconds respectively. then length of the train is
(a)72m (b)54m (c)50m (d)45m
66. Ten point are marked on a straight line and eleven point are marked on another straight line. How many triangles can be constructed with vertices from among the above points?
(a)495 (b)550 (c)1045 (d)2475
67. Three cities A, B, C are equidistant from each other. A motorist travels from A to B at 30km/hour, from B to C at 40km/hour and from C to A at 50km/hour. Then the average speed is
(a)39km/hour (b)40km/hour (c)38.3km/hour (d)37.6km/hour
68. Four friends A, B, C and D need to cross a bridge in the night. A maximum of 2 people can cross at a time. They have only one lamp. A takes one minute to cross the bridge. B takes 2 minutes, C takes 8 minutes and D takes 11 minutes to cross the bridge respectively. A pair must walk together at the speed of the person who walks slowly. What is the minimum time required to cross the bridge by all the four people?
(a)23 minutes (b)20 minutes (c)18 minutes (d)16 minutes
69. In a city, 40.1% of the adults are illiterate while 85.1% of the children are literate. If the ratio of the adults to that of the children is 2:3, then what percent of the population is literate?
(a)20% (b)25% (c)50% (d)75%
70. A runs $1\frac{2}{3}$ times as fast as B. If A gives B a start of 80m, how far must the winning post be so that A and B might reach it at the same time?
(a)200 m (b)400 m (c)300 m (d)160 m
71. A person's present age is two fifth of the age of his mother. After 8 years, he will be one-half of the age of his mother. What is the present age of his mother?
(a)60 years (b)50 years (c)40 years (d)30 years
72. Mr. Kumar drives to work at an average speed of 48km/hr. The time taken to cover the first 60% of the distance is 10 minutes more than the time taken to cover the remaining distance. How far is his office?
(a)30 Kms (b)40 Kms (c)45 Kms (d)48 Kms
73. Two pipes A and B can fill the cistern in 37.5 minutes and 45 minutes respectively. Both pipes are opened. The cistern will be filled in just half an hour, if the B is turned off after:
(a)5 minutes (b)9 minutes (c)10 minutes (d)15 minutes
74. In a certain code, DOES is written as 5\$3% and SITE is written as %4#3. How is EDIT written in that code?
(a)3#4\$ (b)%3#5 (c)354# (d)4#5\$
75. In a shower, 5 cm of rain falls. The volume of water that falls on 1.5 hectares of ground is:
(a)75 cubic meter (b)750 cubic meter (c)7500 cubic meter (d)75000 cubic meter
- Direction(76-77)** Eight friends A through H, are sitting around a circular table, playing a game of cards. They belong to two different teams X and Y. No two persons of the same team sit in adjacent seats.
- A sits neither opposite to D nor to H but is sitting in between C and G.
 - B sits neither opposite to A nor to G but is sitting in between F and D.
 - B and H belong to team X and D sits opposite to E
76. Who are the members of team X?
(a)A, D, F and E (b)B, H, C and E (c)B, D, H and G (d)B, H, C and G
77. Who are sitting adjacent to E?
(a)B and H (b)B and G (c)H and G (d)H and C
78. Fill in the blank in the series: ELFA, GLHA, ILJA, ____, MLNA:
(a)OLPA (b)KLMA (c)LLMA (d)KLLA
79. It was 9.35 AM in Garvita's watch, which kept correct time, when Manya informed her that the last bus left the bus stop at 9.25 am. Manya's watch is 5 min fast. The frequency of the bus is every 20 min. For how long Garvita must wait to catch the next bus?
(a)5 min (b)10 min (c)15 min (d)20 min
80. Rishabh stops after going 10 Km towards west from his office. Then he goes 8 Km turning to his left. After this he goes 4 Km turning to his left. How far is he from the fixed point?
(a)18 Km (b)8 Km (c)10 Km (d)None of these
81. Which of the four options should fill the missing cell?

(a)1 (b)2 (c)3 (d)4
82. If there are no dancers that aren't slim and no singers that aren't dancers, then which statements are always true? Choose the correct answer.
(a)There is not one slim person that isn't a dancer.
(b)All singers are slim.
(c)Anybody slim is also a singer.
(d)None of the above.
83. If in a certain language, ITNIETAM is the code for INTIMATE, which word has the code TREVNIETARBI?
(a)INVREITABRI (b)INVERTIBARTE (c)INVERTIBRATE (d)INVERTIBRETA
84. Sum of ages of Anu and Bhanu is 10 years more than sum of ages of Bhanu, Chanu and Dhanu. Average age of Chanu and Dhanu is 19 years. Find the average age of Anu and Dhanu if Dhanu is 10 years elder than Chanu.

- (a)36 years (b)30 years (c)25 years (d)31 years
85. Read the information given below and answer the questions that follow:
 - A * B means -> A and B are of the same age
 - A - B means -> B is younger than A
 - A + B means -> A is younger than B
Sachin * Madan - Reena means?
(a)Reena is youngest (b)Reena is oldest
(c)Madan is younger than Reena (d)Madan is the youngest
86. Find out the wrong number in the following number series: 56, 58, 62, 70, 84, 118, 182
(a)58 (b)62 (c)86 (d)118
87. In an examination, 78% of the total students who appeared were successful. If the total number of failures was 176 and 34% got first class, then how many students got first class?
(a)272 (b)112 (c)210 (d)254
88. Which number should come in place of the question mark (?) in the following chart:

1	7	9
2	14	?
3	105	117

(a)16 (b)26 (c)20 (d)12
89. If a man walks at the rate of 4 km/hr, he misses a train by only 6 minutes. However, if he walks at the rate of 5 km/hr, he reaches the station 6 minutes before the arrival of the train. The distance covered by him to reach the station is:
(a)4 km (b)7 km (c)9 km (d)5 km
90. If the numerator of a fraction is increased by 25% and denominator decreased by 20%, the new value is 5/4. What is the original value?
(a)3/5 (b)4/5 (c)7/8 (d)3/7
91. Which of the following is a Noun?
(a)Carelessness (b)Careless (c)Carelessly (d)Caring
92. Choose the word that accurately signifies a student who avoids attending classes.
(a)Diligent (b)Callous (c)Morose (d)Truant
93. Identify the type of error in the following sentence:
Some of the books were destroyed.
(a)Syntactical error (b)Punctuation error (c)Grammatical error (d)Conflicting error
94. Pick the word similar in meaning: ALLEVIATE
(a)Clear (b)Lessen (c)Match (d)Incite
95. Pick the word opposite in meaning: ABSURD
(a)Cruel (b)Sensible (c)Calm (d)Sturdy
- Identify the meaning of the following:
It was all Greek to me....
(a)Difficult to speak (b)Difficult to write (c)Difficult to arrange (d)Difficult to understand
97. "To hold your horses" means
(a)To be ready (b)To be patient (c)To be eager (d)To be impatient
98. He was accused theft.
(a)on (b)about (c)in (d)of
99. I never listen the radio.
(a)to (b)of (c)about (d)in
100. I don't think I've ever on that sofa.
(a)been sitting (b)sat (c)sit (d)sitting
101. Choose the correct sentence of the following:
(a)I prefer coffee to tea. (b)I prefer coffee for tea.
(c)I prefer coffee than tea. (d)I prefer coffee by tea.
102. Choose a phrasal verb to replace the explanation in brackets.
"We must (be quick) or we'll be late for school"
(a)Act up (b)Hurry up (c)Fasten on (d)Speed in
103. Anne had to pay for everything because as usual, peter _____ his wallet at home.
(a)had left (b)was leaving (c)left (d)leave
104. Extreme old age when a man behaves like a child.
(a)Imbecility (b)Senility (c)dotage (d)superannuation
105. Which of the following is the correct passive of the sentence, "JOHN HAS EATEN THE APPLES?"
(a)the apples are being eaten by john (b)the apples are eaten by john
(c)the apples have been eaten by john (d)the apples will be eaten by john.
106. Choose one of the word that is most nearly same as meaning of the given word indemnify
(a)Insure (b)Compensate for loss (c)assure (d)Sue for damages
107. Select the most suitable synonym from the given choices for the word: "ANTEDILUVIAN":
(a)Recluse (b)Maverick (c)Archaic (d)Bellicose
108. Select the most suitable antonym from the given choices for the word: "SANGFROID":
(a)Equanimity (b)Steadiness (c)Aplomp (d)turbulence
109. Use the appropriate phrasal verb and complete the sentence given below.
The new system in education is aimed at _____ the differences between rich and poor.
(a)Goof around (b)Evening out (c)Glossing over (d)Give over
110. Choose the right option.
Blessing in disguise is?
(a)Something good (b)Something unrecognized
(c)Something known to all (d)Something good but not recognized at first
111. $(243.125)_{10} = (?)_2$ is
(a)1110011.001 (b)11110010.010 (c)11110010.110 (d)none
112. 
how minimum number of NAND gate required
(a)4 (b)5 (c)3 (d)2
113. $X + \bar{X}Y$ solve the Boolean expression
(a) $X + Y$ (b) \bar{Y} (c) X (d) $X + \bar{Y}$
114. $\bar{X}\bar{Y} + XY + \bar{X}Y$ solve the equation
(a) $\bar{X} + Y$ (b) \bar{Y} (c) \bar{X} (d) $X + \bar{Y}$
115. Dynamic RAM requires _____ power and is _____ than static RAM
(a)less, faster (b)more, slower (c)more, faster (d)less, slower
116. $(4326421)_{10}$ octal conversion is
(a)20400225 (b)20402024 (c)20402002 (d)none
117. The times required for the fetching and execution of one simple machine instruction is
(a)Delay time (b)CPU cycle (c)Real time (d)seek time
118. The base (or radix) of the number system such that the following equation holds $312/20 = 13.1$
(a)3 (b)4 (c)5 (d)6
119. Which of the following represents $(D4)_{16}$
(a) $(4E)_{16} - (5B)_{16}$ (b) $(14E)_{16} - (7A)_{16}$ (c) $(15C)_{16} - (6D)_{16}$ (d) $(1E4)_{16} - (A7)_{16}$
120. How many Boolean expression can be formed with 3 Boolean variables?
(a)16 (b)1024 (c)32 (d)256