

MCA Entrance Paper - NIMCET 2012

MATHEMATICS

1. The number of words that can be formed by using the letters of the word MATHEMATICS that start as well as end with T is (b) 90720 (a) 80720

(c) 20860 (d) 37528 If A - B = $\pi/4$, then (1 + tan A) (1 - tan B) is equal to

(a) 2

(b) 1 (d) 3

(c) 0 3. Let P(E) denote the probability of event E. Given P(A) = 1, P(B) = 1/2, the values of P(A|B) and P(B|A) respectively are (b) 1/2, 1/4 (d) 1, 1/2 (a) 1/4, 1/2

(c) 1/2, 1

The number of different licence plates that can be formed in the format 3 English letters (A....Z) followed by 4 digits (0, 1,9) with repetitions allowed in letters and digits is equal

(a) $26^3 \times 10^4$ (b) $26^3 + 10^4$ (c) 36 (d) 26^3

Which of the following is correct?
(a) Sin 1⁰ > Sin 1 (b) Sin 1⁰ < Sin 1

(c) Sin 1^0 = Sin 1 (d) Sin 1^0 = $\frac{\pi}{180}$ Sin 1

- If two towers of heights h₁ and h₂ subtend angles 60° and 30° respectively at the mid point of the line joining their feet, then h₁: h₂ is (b) 1: 3 (a) 1: 2 (c) 2:1 (d) 3:1
- 7. If the vectors a = (1, x, -2) and b = (x, 3, -4)are mutually perpendicular, then the value of x

(a) -2

(b) 2

(c) 4 (d) -4is the value which What

$$f(x) = \begin{cases} \sin x & \text{if } x \le \frac{\pi}{2} \\ ax & \text{if } x > \frac{\pi}{2} \end{cases}$$
 is continuous?

(b) $\pi/2$

(c) 2/π

(d) 0

9. If the real number x when added to its inverse gives the minimum value of the sum, then the value of x is equal to

(a) -2

(b) 2 (d) -1

10. If $\cos (\alpha + \beta) = 4/5$ and $\sin (\alpha - \beta) = 5/13$, 0 < α , $\beta < (\pi/4)$, then tan $(2\alpha) =$

(a) 56/33

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(b) 63/65

(c) 16/63

11. The value of

 $\lim_{n \to \infty} \frac{\pi}{n} \left[Sin \frac{\pi}{n} + Sin \frac{2\pi}{n} + \dots Sin \frac{(n-1)\pi}{n} \right]$ is

(a) 0 (c) 2

(d) $\pi/2$

12. The point of the curve $y = 6x - x^2$, where the tangent is parallel to x-axis is (b) (2, 8) (a) (0, 0)

(c) (6, 0)

(d) (3, 9)

13. If $I_1 = \int_1^1 2^{x^2} dx$, $I_2 = \int_1^1 2^{x^3} dx$, $I_3 = \int_1^2 2^{x^2} dx$, and

 $I_4 = \int 2^{x^3} dx$, then

(c) I₃> I₄

(b) I₂> I₁ (d) I₄> I₃

14. The value of integral $\int \log \tan x \, dx \, is$

(a) π

(b) $\pi/2$

(c) π/3 (d) 0

15. A determinant is chosen a random from the set of all determinants of matrices of order 2 with elements 0 and 1 only. The probability that the determinant chosen is non-zero is (a) 3/16 (b) 3/8

(c) 1/4 (d) None of these

16. If $\sin^2 x = 1 - \sin(x)$, then $\cos^4 x + \cos^2 x =$ (b) 1 (a) 0

(c) 2/3 (d) -1 17. The equation of the plane passing through the point (1, 2, 3) and having the vector

 $\overrightarrow{N} = 3i - j + 2k$ as its normal is

- (a) 2x y + 3z + 7 = 0
- (b) 3x y + 2z + 7 = 0
- (c) 3x y + 2z = 7
- (d) 3x + y + 2z = 7

18. The value of $\int_{0}^{\sin^2 x} \sin^{-1} 5t \, dt + \int_{0}^{\cos^2 x} \cos^{-1} 5t \, dt \, is$

(a) $\pi/4$

(b) $\pi / 2$

(d) None of these (c) 1 19. Coefficient of quadratic equation $ax^2 + bx + c =$ 0 are chosen by tossing tree fair coins where 'head' means one and 'tail' means two. Then the probability that roots of the equation are imaginary is

(a) 7/8

(b) 5/8 (d) 1/8

(c) 3/8 20. In a class of 100 students, 55 students have passed in Mathematics and 67 students have passed in Physics. Then the number of students who have passed in Physics only is

(a) 22

(b) 33



(d) 45 21. If H is Harmonic mean between P and Q then H/P + H/Q is (a) 2 (b) (P+Q)/Q (c) PQ/(P+Q) (d) None of these 22. The number of values of k for which the system of equation (k+1)x+8y = 4k and kx+(k+3)y = 3k - 1 has infinitely many solution is (b) 1 (a) 0 (b) 1 (c) 2 (d) Infinite 23. The sum of ${}^{20}C_8 + {}^{20}C_9 + {}^{21}C_{10} + {}^{22}C_{11} - {}^{23}C_{11}$ is (a) ${}^{22}C_{12}$ (b) ${}^{23}C_{12}$ (c) 0 (d) ${}^{21}C_{10}$ 24. The value of $\cot^{-1}(21) + \cot^{-1}(13) + \cot^{-1}(-8)$ is (a) 0 (b) π (c) ∞ (d) $\pi/2$ 25. Normal to the curve $y = x^3 - 3x + 2$ at the point (2.4) is (a) 9x - y - 14 = 0 (b) x - 9y + 40 = 0 (c) x + 9y - 38 = 0 (d) -9x + y + 22 = 026. A problem in Mathematics is given to three students A, B and C whose chances of solving it are 1/2, 1/3, 1/4 respectively. if they all try to solve the problem, what is the probability that the problem will be solved? (a) 1/2 (b) 1/4 (c) 1/3 (d) 3/4 27. The function xx decreases in the interval (b) (0, 1) (d) None of these (a) (0, e) (c) (0, 1/e) 28. If $\vec{a} + \vec{b} + \vec{c} = 0$, $|\vec{a}| = 3$, $|\vec{b}| = 5$, $|\vec{c}| = 7$, then angle between the vector \overline{a} and \overline{b} is (a) $\pi/2$ (b) π/3 (c) T/4 (d) π /6 29. If θ (0 \leq θ \leq π) is the angle between the vectors \overline{a} and \overline{b} , then $\frac{\left|\overline{a}\times\overline{b}\right|}{\overline{a}}$ equals $\bar{a}.\bar{b}$ (a) -cot A (c) -tan 0 (d) cot θ 30. If $f(a + b) = f(a) \times f(b)$ for all a and b and f(5) =2, f'(0) = 3, then f'(5) is (a) 2 (b) 4 (b) 4 (c) 6 (d) 8 31. If (4, -3) and (-9, 7) are the two vertices of a triangle and (1, 4) is its centroid, then the area of triangle is (b) 319/2 (c) 183/2 (d) 381/2
32. The equation of the ellipse with major axis along the x-axis and passing through the along the x-axis and passing unough the points (4, 3) and (-1, 4) is $(a) 15x^2 + 7y^2 = 247$ $(b) 7x^2 + 15y^2 = 247$ $(c) 16x^2 + 9y^2 = 247$ $(d) 9x^2 + 16y^2 = 247$ 33. If the circles $x^2 + y^2 + 2x + 2ky + 6 = 0$ and $x^2+y^2+2ky+k=0$ intersect orthogonally, then k is

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(a) 2 or -3/2
                                     (b) -2 or -3/2
  (c) 2 or 3/2 (d) -2 or 3/2
34. Focus of the parabola x^2+y^2-2xy-4(x+y-1)=0
       (a) (1, 1)
       (c) (2, 1)
                            (d) (0, 2)
  35. If \overline{a}, \overline{b} and \overline{c} are unit vectors such that
        \overline{a} + \overline{b} + \overline{c} = 0, then the value
        \overline{a}.\overline{b} + \overline{b}.\overline{c} + \overline{c}.\overline{a} is
       (a) 2/3
                          (b) -2/3
       (c) 3/2
                           (d) -3/2
 36. If \overline{a},\overline{b},\overline{c} are non-coplanar vectors and \lambda is a
       real number, then the vectors
       \overline{a} + 2\overline{b} + 3\overline{c}, \lambda \overline{b} + 4\overline{c} and (2\lambda - 1)\overline{c} are non-
       coplanar for
       (a) All values of λ
       (b) All except one value of \( \lambda \)
       (c) All except two values of λ
       (d) No value of λ
 37. Suppose values taken by a random variable X
      are such that a \le x_i \le b, where x_i denotes the
      value of X in the ith case for i = 1, 2, 3, ...n,
      then
      (a) (b-a)^2 \ge Var(X)
(c) a^2 \le Var(X) \le b^2
                                       (b) a^2/4 \le Var(X)
                                       (d) \leq Var(X) \leq b
 38. If \omega is the cube root of unity, then the system
      of equations
      x + \omega^{2}y + \omega z = 0, \omega x + y + \omega^{2}z = 0 and \omega^{2}x + \omega^{2}z = 0
      \omega y + z = 0 is
      (a) Consistent and has unique solution
      (b) Consistent and has more than one solution
      (c) Inconsistent
      (d) None of these
39. If x = log_abc, y = log_bca and z = log_cab, then
      \frac{1}{1+x} + \frac{1}{1+y} + \frac{1}{1+z}
     (a) abc
                          (b) \sqrt{ab} + \sqrt{bc} + \sqrt{ca}
(c) 1 (d) x + y + z
40. If 2^a = 3^b = 6^{-c} then ab + bc + ca =
     (a) 1
                          (b) 2
                          (d) None of these
41. If e and e' be the eccentricities of a hyperbola
     and its conjugate, then \frac{1}{e^2} + \frac{1}{e'^2}
                                            e^{i2}
     (a) 0
     (c) 2
                          (d) None of these
42. IF A fair coin is tossed n times, then the
     probability that the head comes odd number of
     times is
     (a) 1/2
(c) 1/2<sup>n-1</sup>
                          (b) 1/2<sup>n</sup>
                          (d) None of these
43. If sin(\pi cos\theta) = cos(\pi sin\theta), then sin2\theta=
     (a) \pm 3/4
                          (b) \pm 1/3
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 $(c) \pm 1/4$ $(d) \pm 4/3$

44. In which of the following regular polygons, the number of diagonals is equal to number of sides?

(a) Pentagon (b) Square

(c) Octagon (d) Hexagon

45. One hundred identical coins each with probability P of showing up heads are tossed if 0 < P < 1 and the probability of heads showing on 50 coins is equal to that of heads on 51 coins; then the value of P is

(a) 1/2 (b) 49/101 (c) 50/101 (d) 51/101

46. The equation (cos p - 1) x^2 + (cos p) x + sin p = 0 where x is a variable has real roots. Then the interval of p is

(a) $(0, 2\pi)$ (b) $(-\pi, 0)$

(c) $(-\pi/2, \pi/2)$ (d) $(0, \pi)$ 47. Number of real roots of $3x^5 + 15x - 8 = 0$ is

(a) 3 (b) 5 (d) 0

48. The value of k for which the set of equations 3x + ky - 2z = 0, x + ky + 3z = 0 and 2x + 3y -4z = 0 has a on-trivial solution, is

(b) 17/2 (c) 31/2 (d) 33/2

If $x = log_3 5$, $y = log_{17} 25$, then which one of the following is correct?

(b) x < v(d) x = y

, Then Aⁿfor any natural number

(a)

(c) 0

(d) None of these

ANALYTICAL ABILITY AND LOGICAL REASONING

51. If ROAST is coded as PQYUR in a certain language, then SLOPPY is coded in that language as

(a) MRNAQN (b) NRMNQA (c) QNMRNA (d) RANNMQ

52. If Lelibroon means yellow hat, plekafroti means flower garden and frotimix means garden salad, then which word could means Yellow flower"?

(a) Lelifroti (b) Lelipleka

(c) Plekabroon (d) Frotibroon

53. If + is *, - is +, * is / and / is -, then 6-9+8*3/20 is

(c) 10 (d) 12

In a certain year there were exactly four Fridays and four Mondays in January. On what day of the week did the 20th of January fall that vear?

(a) Saturday (b) Sunday (c) Thursday (d) Tuesday (55. The letters P, Q, R, S, T, U and V, not necessarily in that order represent seven consecutive integers from 22 to 33 and

1. U is as much less than Q as R is greater than S

V is greater than U

3. Q is the middle term

4. P is greater than S

Then the sequence of letters from the lowest value to the highest value is

(a) TVPQRSU (b) TRSQUPV (c) TUSQRPV (d) TVPQSRU

56. The minimum number of tiles of size 16 by 24 required to form a square by placing them adjacent to one another is

(a) 6 (b) 8 (c) 11 (d) 16

57. Five persons K. L. M, N and O are sitting around a dining table. K is the mother of M. M. is actually the wife of O, N is the brother of K and L is the husband of K, how is N related to L?

(a) Son (b) Cousin

(c) Brother (d) Brother-in-law

58. Three men A, B, C play cards. If one loses the game he has to give Rs. 3. If he wins the game he will gain Rs. 3 each from the other two losers. IF A has won 3 games, B loses Rs. 3, C wins Rs. 12, then the total number of games played is

(a) 12 (b) 21 (c) 20 (d) 6

59. If a man walks at the rate of 4 kmph, he misses a train by only 6 min. However if he walks at the rate of 5 kmph he reaches the station 6 minutes before the arrival of the train. The distance covered by him to reach the station is

(a) 4 (b) 7 (c) 9 (d) 5

The missing number in the given series is 3, 6, 6, 12, 9,......12

(a) 15 (b) 18 (c) 11 (d) 13

A man runs 20 m towards east and turns right, runs 10 m and turns right, runs 9 m and turns left, and runs 5 m and turns left, runs 12 m and finally turns left and runs 6 m. Which direction is the man facing?

(b) South (a) North



(d) West

62. In a club there are certain number of males and females. If 15 females are absent then number of males will be half of females. If 45 males are absent then female strength will be 5 times that of males. Number of males actually present is (a) 45

(b) 80 (d) 175 (c) 105

The missing number in the following series is 6, 12, 21,48

(a) 40

(b) 33

(c) 38

(d) 45

Directions (64-66): Read the below passage carefully and answer the questions: Five roommates Randy, Sally, Terry, Uma and Vernon each do one housekeeping task - mopping, sweeping, laundry, vacuuming or dusting one day a week, Monday Through Friday.

Vernon does not vacuum and does not do his task on Tuesday.

Sally does the dusting and does not do it on Monday or Friday.

The Mopping is done on Thursday

Terry does his task, which is not vacuuming, on Wednesday.

The laundry is done On Friday and not by Uma

Randy does his task on Monday.

64. The task done by Terry on Wednesday is (a) Vacuuming (b) Dusting (c) Mopping

(d) Sweeping 65. The day on which the vacuuming is done is (a) Friday (b) Monday

(c) Tuesday (d) Wednesday 66. Sally does dusting on

(a) Friday (c) Tuesday

(b) Monday (d) Wednesday

67. Find the odd number in the series: 2, 9, 28, 65, 126, 216, 344,..

(a) 28 (c) 26

(d) 216 68. Average age of students of an adult school is 40 years. 120 new students whose average is 32 years joined the school. As a result the average age is decreased by 4 years. The number of students of the school after joining of the new students is

(a) 1200 (b) 120 (d) 240 (c) 360

<u>Directions (69-70)</u>: P, Q, R, S, T, U, V an W are sitting round the circle and are facing the centre. P is second to the right of T, T is the neighbour of R and V. S is not the neighbour of P. V is the

neighbour of U, Q is not between S and W, and W is not between U and S.

69. Which two of the following are not neighbours? (a) RV

(b) UV (c) RP (d) QW

70. What is the position of S? (a) Between U and V

(b) Second to the right of P

(c) To the immediate right of W (d) Data inadequate

71. The ratio between a two digit number and the sum of the digits of that number is 4:1, if the digit in the units place is 3 more than the digit in ten's place, then the number is

(a) 24 (c) 36 (d) 42

72. Two position of a dice are shown below. When number 1 is on the top, what number will be at the bottom?



(a) 2 (b) 3

(c) 5 (d) Cannot be determined A, B, C, D, E, F and G are sitting in a line facing East. C is immediate to the right of D. B is at one of the extreme ends and has E as his neighbour. G is between E and F. D is sitting third from the south end. Who is sitting from North?

(a) A (c) F (d) G

There is a family party consisting of two fathers, two mothers, two sons, one father-inlaw, on mother-in-law, one daughter-in-law, one grandfather, one grandmother an done grandson.

What is the minimum number of persons required so that this is possible?

(a) 5 (b) 6 (c)7(d) 8

75. If A is brother of B, C is brother of B, and A is brother of D, then which of the following must be true?

(a) A is brother of C

(b) B is brother of C

(c) D is brother of C (d) B is brother of D

Directions (76-78): Five houses lettered A, B, C, D and E are built in a row next to each other. The houses are lined up in the order A, B, C, D and E. Each of the five houses have colored roofs and chimneys. The roof and chimney of each house must be painted as follows:

The roof must be painted either green, red or Yellow.

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- The chimney must be painted either white,
- No house may have the same color chimney as the color of roof.
- No house may use any of the same colors that adjacent house uses.
- House E has green roof.
- House B has a red roof and a black chimney.
- 76. Which of the following is true?
 - (a) At least two houses have black chimney.
 - (b) At least two houses have red roofs
 - (c) At least two houses have white chimneys
 - (d) At least two houses have green roofs
- 77. If houses C has a yellow roof, then which of the following must be true?
 - (a) House E has a white chimney
 - (b) House E has a black chimney
 - (c) House E has a red chimney
 - (d) House D has a red chimney
- 78. What is the maximum number of green roofs?
 - (a) 1 (b) 2
- (c) 3 (d) 4 79. Krishna Said, "This girl is the wife of grandson of my mother'. How is Krishna related to girl?
- (a) Father (b) Father-in-law (c) Husband (d) Grand father 80. Instead of walking along two adjacent sides of
- a rectangular field, a boy took a short cut along the diagonal of the field and saved a distance equal to half the longer side. The ratio of the shorter side of the rectangle to the longer side is
 - (a) 1/2 (b) 2/3 (c) 1/4 (d) 3/4
- 81. Each word in parenthesis below is formed in a method. This method is used in all four examples

SNIP (NICE) PACE TEAR (EAST) FAST TRAY (RARE) FIRE

POUT (OURS) CARS

Based on this method, the word in the parenthesis of CANE (?) BATS is (a) NEAT

- (c) ANTS
- (b) CATS
- (d) NETS 82. A study of native born residents in an area of Adivasis found that two-thirds of the children developed considerable levels nearsightedness after starting school, while their illiterate parents and grandparents, who had no opportunity for formal schooling showed no signs of this disability.

If the above statements are true, which of the following conclusions is most strongly

- supported by them?
- (a) Only people who have the opportunity for formal schooling develop nearsightedness.

- (b) People who are illiterate do not suffer from nearsightedness
- The nearsightedness in the children is caused by the visual stress required by reading and other class work
- (d) Only literate people are nearsighted.

Directions (83 - 85):

- A causes B or C but not both F occurs only if B occurs
- D occurs if B or C occurs
- E occurs only if C occurs
- J occurs only if E or F occurs
- D occurs only if G or H occurs
- Hoccurs if Eoccurs
- G occurs if F occurs
- 83. If A occurs, which may occur?
 - I. Fand G
 - II. E and H
 - III. D
 - (a) I only
 - (b) II only
 - (c) I and III or II and III, But Not Both
 - (d) I, II and III
- 84. If B occurs, which must occur?
 - (a) D (b) G (c) H
 - (d) J
- 85. If J occurs, which must have occurred?
 - (a) Both E and F (b) Either B or C
- (c) Both B and C (d) None of these 86. Let x, y and z be distinct integers x and y are
- odd and positive and z is even and positive. Which one of the following statements cannot be true?
 - (a) $(x-z)^2$ y is even
- (a) (x-z)² y is even (b) (x-z) y² is odd (c) (x-z) y is odd (d) (x-y)² z is even 87. Pointing to a man in the photograph a lady said, "The father of his brother is the only son of my mother." How is this man in photograph related to the lady?
 - (a) Brother (b) Son (c) Grandson (d) Nephew

<u>Directions (88 - 90)</u>: Six boys A, B, C, D, E, F are marching in a line. They are arranged according to their heights, the tallest being at the back and the shortest in the front. F is between B and A. E is shorter than D but taller than C who is taller than A. E and F have two boys between them. A is not the shortest among them.

- 88. Where is E?
 - (a) Between A and B (b) Between C and A (c) Between D and C (d) In front of C
- 89. If we start counting from the shortest, which boy is fourth in the line?
 - (a) E (c) D
 - (d) C
- 90. Who is next to the shortest?



| (a) C (b) B (c) E (d) F GENERAL ENGLISH Directions (91 to 97): Fill in the blank with correct option to make a proper sentence: 91. And now for this evening's main headline: Britain another Olympic gold medal. (a) Had won (b) Wins (c) Won (d) Has won (c) Won (d) Has won she would have helped him out (a) Knew (b) Had been knowing (c) Had known (d) Have known (e) Had known (d) Have known (e) Had together (b) Altogether (c) Alltogether (d) Together (e) Altogether (e) C) Alltogether (d) Together (e) From (d) For (e) General (d) Limited (e) Essential (d) Limited (102. Choose the words that best express the meaning of the given idiom-Mud Slinging (a) Giving pain (b) Abusing someone (c) Laying blame (d) Damaging the reputation (103. For a word, four spellings are given, choose the correct one. (a) Ceiling (d) Ceeling (c) Ceiling (d) Ceeling (c) Griling (d) Ceeling (d) Ceeling (e) Ceiling (d) Ceeling (for Ceiling (for Ceil |
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| (c) E (d) F GENERAL ENGLISH Directions (91 to 97): Fill in the blank with correct option to make a proper sentence: 91. And now for this evening's main headline: Britain another Olympic gold medal. (a) Had won (b) Wins (c) Won (d) Has won (e) Had known (d) Has won (e) Had known (d) Had been knowing (e) Had known (d) Have known (e) Had known (d) Have known (e) Had known (d) Have known (e) All together (b) Altogether (c) Alltogether (d) Together (e) Altogether (d) Together (e) From (d) For (c) Control of the word of the sentence that has an error. (c) Essential (d) Limited (102. Choose the words that best express the meaning of the given idiom-Mud Slinging (a) Giving pain (b) Abusing someone (c) Laying blame (d) Damaging the reputation (a) Ceiling (d) Ceeling (c) Ceiling (d) Ceeling (c) Ceiling (d) Ceeling (c) Ceiling (d) Ceeling (o) Grieve (c) Grieve (d) Decieve (c) Grieve (d) Decieve (c) Grieve (d) Decieve (d) Decieve (d) Decieve (d) Decieve (e) Grimace (d) Controversial (e) Had known (d) Have known (d) Had been knowing (e) Had known (d) Have known (e) Had known (d) Had been knowing (e) Had known (d) Had known (d) Had been knowing (e) Had known (d) Had known (d) Had known (d) Had known (e) Had known (d) Had known (e) |
| Directions (91 to 97): Fill in the blank with correct option to make a proper sentence: 91. And now for this evening's main headline: Britain another Olympic gold medal. (a) Had won (b) Wins (c) Won (d) Has won 92. If She about his financial situation, she would have helped him out (a) Knew (b) Had been knowing (c) Had known (d) Have known 93. I am sure she can teach computers as well. She's not new to the subject. (a) All together (b) Altogether (c) Alltogether (d) Together 94. You are trying to drag me a controversy. (a) In (b) Into (c) From (d) For 102. Choose the words that best express the meaning of the given idiom-Mud Slinging (a) Giving pain (b) Abusing someone (c) Laying blame (d) Damaging the reputation 103. For a word, four spellings are given, choose the correct one. (a) Ceiling (b) Cealing (c) Ceiling (d) Ceeling 104. Choose the words that best express the meaning of the given idiom-Mud Slinging (a) Giving pain (b) Abusing someone (c) Laying blame (d) Damaging the reputation 103. For a word, four spellings are given, choose the vorrect one. (a) Ceiling (c) Ceiling (c) Griling (b) Relieve (c) Grieve (d) Decieve (c) Grieve (d) Decieve (d) Decieve (c) Grieve (d) Decieve (d) Black (b) Magnetic (c) Grimace (d) Controversial (d) Controversial (e) Choose the words that best express the meaning of the given idiom-Mud Slinging (a) Giving pain (b) Abusing someone (c) Laying blame (d) Damaging the reputation 103. For a word, four spellings are given, choose the vorrect one. (a) Ceiling (c) Ceiling (c) Ceiling (d) Ceeiling (c) Griling (c) Ceiling (d) Ceoling (d) Leve (e) Grieve (f) Grieve (l) Decieve (g) Grieve (l) Decieve (l) Deci |
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| 94. You are trying to drag me a (a) Bold (b) Lazy (c) Calm (d) Slow (c) From (d) For (d) For (e) From (d) For (e) From (e) From (e) From (for the sentence that has an error. |
| controversy. (a) In (b) Into (c) From (d) For (c) Calm (d) Slow 107. Pick the part of the sentence that has an error. |
| (a) In (b) Into (c) From (d) For (d) For error. |
| (C) FOI error. |
| OF The manufacture of the control of |
| - Jou deciding are in you would have come to me I would have |
| friends. |
| (a) With whom (b) Who (a) If you would have (b) Come to me |
| (c) I would have (d) Helped you |
| 108. Choose the word or phrase that is most |
| The army opposite in meaning to the word |
| |
| |
| (c) Seat (d) Representational passengers. (a) Space (b) Place (c) Seat (d) Representation (d) Cursory (d) Representation (d) Place (d) Representation (d) Representa |
| (c) Seat (d) Room meaning of the idiom. To get a humble rise |
| 50. The sentence below has 2 blanks. Fill in the (a) To become a vegetarian |
| blanks picking the appropriates pair of words (b) Disinfecting everything |
| (c) To fill one's belly |
| the meaning of the sentence. The most (d) To say you are sorry for a mistake that you |
| made |
| |
| |
| (c) Dismantle (d) Evolve |
| (b) Catastrophes; ill-will COMPUTER AWARENESS |
| (c) Atrocities; development |
| (d) Triumphs; civilization 111. (2FAOC) ₁₆ is equivalent to |
| 23. I iii iii tile Didiik with the Correct form of tense. |
| (b) (001011111010 00001100) ₂ |
| |
| (d) None of these |
| |
| Anne had to pay for eventhing because |
| usual, Peter his wallet at home (c) 71 (d) 61 |
| (a) Had left (b) Was leaving (c) 113. An I/O processor controls the flow of |
| (c) Left (d) Leave information between |
| 101. Select the synonym of the word MEAGRE (a) Cache memory and I/O devices |



- (b) Main memory and I/O devices
- Two I/O devices
- (d) Cache and main memories
- Which of following devices will take highest time in taking the backup of the data from a
 - (a) Megnetic Disk (b) Pen Drive
- (c) CD (d) Magnetic Tape 115. ROM is a kind of
- (a) Primary memory
 - (b) Cache memory
 - (c) Removable memory
- (d) Secondary memory

 116. The errors that can be pointed out by compilers are
 - (a) Syntax errors
- (b) Semantic errors
- (a) Syntax errors
 (b) Semantic errors
 (c) Logical errors
 (d) Internal errors
 117. Let x = 11111010 and y = 00001010 be two 8 bit 2's complement numbers. Their product in 2's complement notation is
 (a) 11000100
 (b) 10011100
 (c) 10100101
 (d) 11010101
 118. The range of numbers that can be stored in 8 bits, if negative numbers are stored in 2's
- 8 bits, if negative numbers are stored in 2's complement form is
 - (b) -128 to + 127 (d) -127 to + 127
- (a) -128 to + 128 (b) (c) -127 to + 128 (d) 119. Primary storage is ____ __ as compared to secondary memory.
 - (a) Slow and expensive
 - (b) Fast and inexpensive
 - (c) Fast and expensive
- (d) Slow and inexpensive

 120. Which of the following unit is used to supervise each instruction in the CPU?
 - (a) Control Unit(b) Accumulator (c) ALU (d) Control Register

ANSWERS

| | | | EUROSCO CONTRACTOR | 1000000 | |
|-----|-----|-----|--------------------|---------|-----|
| 1. | (B) | 21. | (A) | 41. | (B) |
| 2. | (A) | 22. | (B) | 42. | (A) |
| 3. | (D) | 23. | (C) | 43. | (D) |
| 4. | (A) | 24. | (A) | 44. | (A) |
| 5. | (B) | 25. | (C) | 45. | (D) |
| 6. | (D) | 26. | (D) | 46. | (D) |
| 7. | (A) | 27. | (C) | 47. | (C) |
| 8. | (C) | 28. | (B) | 48. | (D) |
| 9. | (C) | 29. | (B) | 49. | (A) |
| 10. | (A) | 30. | (C) | 50. | (B) |
| 11. | (C) | 31. | (C) | 51. | (C) |
| 12. | (D) | 32. | (B) | 52. | (B) |
| 13. | (D) | 33. | (A) | 53. | (C) |
| 14. | (D) | 34. | (A) | 54. | (B) |
| 15. | (B) | 35. | (D) | 55. | (C) |
| 16. | (B) | 36. | (C) | 56. | (A) |
| 17. | (C) | 37. | (A) | 57. | (D) |
| 18. | (D) | 38. | (B) | 58. | (A) |
| 19. | (A) | 39. | (C) | 59. | (A) |
| 20. | (D) | 40. | (C) | 60. | (C) |

| 61. | (A) | 81. | (C) | 101. | (D) |
|-----|-----|------|-----|------|-----|
| 62. | (B) | 82. | (C) | 102. | (D) |
| 63. | (B) | 83. | (C) | 103. | (C) |
| 64. | (D) | 84. | (A) | 104. | (C) |
| 65. | (B) | 85. | (B) | 105. | (D) |
| 66. | (C) | 86. | (A) | 106. | (A) |
| 67. | (B) | 87. | (D) | 107. | (A) |
| 68. | (D) | 88. | (C) | 108. | (B) |
| 69. | (A) | 89. | (D) | 109. | (D) |
| 70. | (D) | 90. | (D) | 110. | (C) |
| 71. | (C) | 91. | (B) | 111. | (C) |
| 72. | (C) | 92. | (C) | 112. | (B) |
| 73. | (D) | 93. | (C) | 113. | (B) |
| 74. | (A) | 94. | (B) | 114. | (C) |
| 75. | (A) | 95. | (A) | 115. | (A) |
| 76. | (C) | 96. | (A) | 116. | (A) |
| 77. | (A) | 97. | (C) | 117. | (A) |
| 78. | (C) | 98. | (C) | 118. | (B) |
| 79. | (B) | 99. | (B) | 119. | (A) |
| 80. | (D) | 100. | (A) | 120. | (A) |