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IN CA & CMA INTER 2020, 2021, 2022 & 2023 RESULTS

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K. DEEPAK JAIN HT NO. 233277	CH. PADMA RAJU HT NO. 134148	CH . YASWANTH HT NO. 433780	RISHAB OSTWAL R HT NO. 723800	L. VAGDHEVA REG NO. 02212134955

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TILL JAN 2024

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OUR SINGLE DIGIT RANKS IN IPCC / CA INTER LEVEL EXAMS

CH. YASWANTH
HT NO. 433780

CA INTER
FEB 26th, 2022

All India 1th RANK

S.V. RAMANA MURTHY
HT NO. 362075

CA IPCC
JULY 30th, 2018

All India 4th RANK

B. VIJAY KUMAR
HT NO. 362439

CA IPCC
JULY 30th, 2018

All India 5th RANK

SK. CHAND BASHA
HT NO. 342503

CA IPCC
AUG 23rd, 2019

All India 6th RANK

RISHAB OSTWAL R
HT NO. 566488

CA INTER
FEB 26th, 2022

All India 8th RANK

J. BIKSHALU BABU
HT NO. 365158

CA IPCC
FEB 4th, 2015

All India 9th RANK

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21-2-24 CMA RESULTS లో మా "ONE MAN SHOW"

All India 2nd RANK

CMA FINAL

G. BHARGAVI
REG NO. 02191054920

All India 2nd Rank తో పాటు CMA INTER & CMA FINAL లో మా విద్యార్థులు మొత్తం 85 RANKS

85 ర్యాంకులు సాధించారు.

- ఇవి మా జీవిత కాలపు ర్యాంకులు కావు కేవలం ఒక రోజు ర్యాంకులు మాత్రమే.
- సమానమైన మార్కులు వచ్చిన విద్యార్థులు అందరికి ఒకే ర్యాంకు ప్రకటిస్తారని గమనించగలరు.

CMA INTER లో మా విద్యార్థులు సాధించిన 50 ర్యాంకులు

ALL INDIA 5,7,7,7,8,9,10,11,15,15, 16,19,19,19,20,21,22,22,23,26,27, 27,28,29,29,29,31,32,34,34,35,36, 37,38,38,39,41,41,41,41,41,43,43, 43,45,46,48,49,50,50,Ranks

CMA FINAL లో మా విద్యార్థులు సాధించిన 35 ర్యాంకులు

ALL INDIA 2,6,9,13,14,15, 16,16,19,23,23,25,26,28, 28,30,30,31,31,33,34,34, 34,35,36,37,39,40,40,40, 41,43,47,47,48 Ranks

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"ONE MAN SHOW" in Sept 26th, 2023 CMA Results

CMA INTER

All India 1st RANK

L. VAGDHEVA

CMA FINAL

All India 1st RANK

M. SREEKANTH KUMAR

OUR STUDENTS HAVE ACHIEVED A TOTAL OF 68 RANKS IN CMA INTER & CMA FINAL. THESE ARE NOT OUR LIFETIME RANKS, BUT ONLY ONE-DAY RANKS. SAME RANK CAN BE AWARDED TO MULTIPLE STUDENTS SECURING SAME MARKS.

DETAILS OF THE 44 RANKS ACHIEVED BY MASTER MINDS STUDENTS IN CMA INTER.

ALL INDIA 1,2,4,5,6,7,8,9,14,15,16, 17,17, 18,18,19,21,21,22,23,24,24,25, 26,26,28,28,31,33,35,36,36,37,41,42, 43,44,45,46,46,48,49,49,49 Ranks

DETAILS OF THE 24 RANKS ACHIEVED IN CMA FINAL.

ALL INDIA 1,2,3,7,10, 12,16,17,18,18,18,21, 31,32,33,34,39,40,41, 41,42,45,46,48 Ranks

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A VICTORY NEVER BEFORE IN THE HISTORY.
"ONE MAN SHOW" IN SEPT 27, 2022 CMA RESULTS

CMA INTER

All India 1st RANK

RISHAB OSTWAL R

CMA FINAL

All India 2nd RANK

K. GOVARDHAN

OUR STUDENTS HAVE SECURED 125 RANKS IN CMA INTER AND CMA FINAL PUT TOGETHER, INCLUDING 1ST & 2ND RANKS.

THESE ARE NOT OUR LIFE TIME RANKS, THESE ARE JUST ONE DAY RANKS.

SAME RANK CAN BE AWARDED TO MULTIPLE STUDENTS SECURING SAME MARKS.

DETAILS OF 86 ALL INDIA RANKS SECURED IN CMA INTER

ALL INDIA 1,3,4,5,6,8,10,13,13,14, 16,18,19,20,20,21,21,22,24,24,24, 26,27,28,28,28,28,29,29,29,30,30, 31,33,33,34,35,37,37,38,38,39,39, 39,39,39,39,40,41,41,41,41,41,42, 43,43,43,43,43,44,44,45,45,45,46, 46,46,46,46,47,47,48,48,48,49,49, 49,49,50,50,50,50,50,50,50,50 Ranks

DETAILS OF 39 ALL INDIA RANKS SECURED IN CMA FINAL

ALL INDIA 2,3,11, 15,16,16,18,19,21, 24,26,27,27,28,34, 35,35,36,37,37,39, 39,39,40,40,40,40, 41,41,41,42,43,43, 44,44,45,45,46, 49 Ranks

ALL INDIA RANKS AT CMA INTER & FINAL LEVELS IN THE LAST 19 EXAMS / RESULTS.

OUR STUDENTS AND STAFF MADE US TO FEEL PROUD. SINCERE THANKS TO THEM

JAN 2024 EXAMS (FEB 2024 RESULTS)	85
JULY 2023 EXAMS (SEP 2023 RESULTS)	68
JAN 2023 EXAMS (MAR 2023 RESULTS)	27
JULY 2022 EXAMS (SEPT 2022 RESULTS)	125
DEC 2021 EXAMS (FEB 2022 RESULTS)	6
DEC 2020 EXAMS (MAR 2021 RESULTS)	98
DEC 2019 EXAMS (FEB 2020 RESULTS)	42
JUNE 2019 EXAMS (AUG 2019 RESULTS)	19
DEC 2018 EXAMS (FEB 2019 RESULTS)	46
JUNE 2018 EXAMS (AUG 2018 RESULTS)	31
DEC 2017 EXAMS (FEB 2018 RESULTS)	52
JUNE 2017 EXAMS (AUG 2017 RESULTS)	35
DEC 2016 EXAMS (FEB 2017 RESULTS)	27
JUNE 2016 EXAMS (AUG 2016 RESULTS)	57
DEC 2015 EXAMS (FEB 2016 RESULTS)	18
JUNE 2015 EXAMS (AUG 2015 RESULTS)	52
DEC 2014 EXAMS (FEB 2015 RESULTS)	12
JUNE 2014 EXAMS (AUG 2014 RESULTS)	15
DEC 2013 EXAMS (FEB 2014 RESULTS)	7
TOTAL	822

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All India 2nd Rank

CA FOUNDATION 2019 RESULTS

K. SAI SRIKAR
HT NO. 613539

BIG NEWS

OUR STUDENT SECURED 362 MARKS AT FOUNDATION LEVEL IN TODAY'S RESULTS (SEPT 13, 2021) WHICH IS MORE THAN THE ALL INDIA1ST RANK IN FEB 2021 RESULTS

P. POOJITHA REDDY
H.NO. 140552

362/400 MARKS

This could be one of the highest score at All India Level. Earlier ICAI used to declare Ranks at CA Foundation level. But this time they have not announced Ranks at CA Foundation level.

CA FOUNDATION - BUSINESS MATHEMATICS
JUNE 2024 ATTEMPT - MEMORY BASED QUESTION PAPER

1. RATIOS & PROPORTIONS

1) If 4 numbers 1/4, 1/6, 1/10 and 1/x are in proportional, then what is the value of x?

a) 14 b) 15 c) 10 d) 1/12

2. SETS

NIL

3. THEORY OF INDICES & SURDS

2) If $2^x = 4^y = 8^z$ and $\frac{1}{2x} + \frac{1}{4y} + \frac{1}{6z} = \frac{24}{7}$ then value z is.

a) $\frac{7}{16}$ b) $\frac{7}{32}$

c) $\frac{7}{48}$ d) $\frac{7}{64}$

4. LOGARITHMS

3) If $log_a{}^b = 3$, $log_b{}^c = 2$ then $log_a{}^c$ =?

a) 9 b) 6 c) 5 d) 1

5. RELATIONS & FUNCTIONS

4) Consider the following relations on A = {1, 2, 3}, R = {(1, 1), (1, 2), (1, 3), (3, 3)} S = {(1, 1), (1, 2), (2, 1), (2, 2), (3, 3)} T = {(1, 1), (1, 2), (2, 2), (2, 3)}, Ø = empty set. Which one of these forms an equivalence relation?

a) Ø b) S c) T d) R

6. SEQUENCE & SERIES

5) In AP if 7^{th} term is x, and $(x+7)^{th}$ term zero, then x^{th} term is _____

a) 6 b) 7 c) 8 d) 10

6) If the 2nd and 8th term of AP are equal to constant a, then the sum of first n terms of this AP is equal to

a) na b) a/n

c) 2n + n(a – 1) d) n + a(n – 1)

7) The 3rd term of AP is 7 and 7th term is 2 more than thrice the third term. Then the common difference is

a) 4 b) 3 c) 5 d) 6

8) If the arithmetic mean of two numbers is 10 and the geometric mean is 6, then the difference in the numbers is _____

a) 12 b) 14 c) 16 d) 8

7. EQUATIONS

9) The roots of the equation x^2 – 7x + 10 = 0 are

a) - 2 & - 5 b) 2 & 5

c) - 2 & 5 d) 2 & - 5

10) If α and β are roots of the equation x^2 – 8x + 12 = 0 then $\frac{1}{\alpha} + \frac{1}{\beta}$

a) $\frac{2}{3}$ b) $\frac{2}{4}$ c) $\frac{3}{4}$ d) $\frac{4}{5}$

11) The roots of the equation x^3 - 3x^2-4 x + 12 = 0 has three real roots. They are:

a) -2,2,3 b) -2, -2,3

c) 2, -2, -3 d) -2,2, -3

12) A fraction becomes 1 when 3 are added to the numerator and 1 is added to the denominator, but numerator and denominator are decreased by 2 and 1 respectively,it becomes ½. The denominator of fraction is

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

13) If α and β are roots of the equation ax^2+bx +c=0, then the equation whose roots are $\frac{1}{\alpha}$ and $\frac{1}{\beta}$ is:

a) cx^2-bx+a =0 b) cx^2+bx+a =0

c) x^2+bx+a =0 d) x^2+bx-a =0

8. PERMUTATIONS & COMBINATIONS

14) In how many ways can 5 boys 3 girls sit in a row so that no two girls are together

a) 14,400 b) 14,000

c) 14,425 d) 12,400

15) In how many ways the letters of the word "STADIUM" be arranged in such a way that all vowels all occur together?

a) 7!.4! b) 7!.3! c) 5!.4! d) 5!.3!

16) A user wants to create a password using 4 lower case letters (a-z) and 2 uppercase letters (A-Z). No letter can be repeated in any form. In how many ways can the password be created if the password be created if the password must start with an uppercase letter?

a) 26 x 25 x 24 x 23 x 22 x 5 x 21

b) 26 x 25 x 24 x 23 x 22 x 2 x 21

c) 26 x 5 x 25 x 24 x 23 x 2 x 22 x 21

d) 6 x 26 x 25 x 24 x 23 x 22 x 21

17) How many ways can 5 different trophies can be arranged on a shelf if one particular trophy must always be in the middle?

a) 24 b) 120

c) 48 d) 144

9. LINEAR INEQUALITIES

18) Given the constraints, $x \leq 3$, $y \leq 4$ and $4x+3y \leq 12$,the point ____ is in the feasible region. (Select from the below given list)

a) (3, 4) b) (2,4)

c) (2, 2) d) (1, 1)

19) A senior typist can type five reports and a junior typist can type three reports per day. But the management needs to complete atleast 30 reports in a day.If S and J denote the number of senior and junior typists assigned for the work, which of the following inequality represents the constraint?

a) $5S + 3J \leq 30$ b) $5S + 3J \geq 30$

c) $3S + 5J > 35$ d) $3S + 5J < 30$

10. TIME VALUE OF MONEY

20) An amount of ₹4500 becomes ₹7200 in two years at S.I rate of :

a) 15% b) 25%

c) 30% d) 40%

21) You bought a painting 10 years ago as an investment. You originally paid ₹ 85,000 for it.If you sold it for ₹4,84,050 ,what was your annual return on investment?

a) 47% b) 4.7%

c) 19% d) 12.8%

22) If the interest rate on a loan is 1% per month, then the effective annual rate of interest is

a) 12% b) 12.36%

c) 12.68% d) 12.84%

23) At 8% compounded annually, how long will it take ₹750 to double?

a) 6.5 years b) 48 months

c) 9 years d) 12 years

24) The difference between C.I & S.I for a period of 2 years ,at same interest rate r, is ____

a) P x r^2 b) P x $\frac{r}{2}$

c) P x 2r d) P^2 x r

25) Ram borrowed ₹5000 at 12.5% per annum compound interest. The money was repaid after 3 years. The total interest paid by him approximately is _____, if $(1.125)^3$ =1.4238

a) ₹2119 b) ₹2200

c) ₹2000 d) ₹2500

26) A person invests in a fund that pays 4% per annum for 4 years. The future value of current ₹4000 would be (Use if needed $(1.04)^4$ =1.1698, $\frac{1}{(1.04)^4}$ =0.8548, $(1.04)^6$ =1.2160 and $\frac{1}{(1.04)^6}$=0.8219)

a) ₹3419 b) ₹4679

c) ₹4866 d) ₹3287

27) What is the present value of an investment that pays ₹ 400 at the end of 3 years and ₹.500 at the end of 6 years ?

a) ₹320 b) ₹335

c) ₹340 d) ₹280

28) Assuming that the discount rate is 12% per annum, how much would you pay to get ₹100, growing at 4%, annually, forever?

a) Rs.1,425 b) Rs.1,300

c) Rs.1,250 d) Rs.1,150

29) Find the future value of an annuity of Rs.5000 is made annually for 6 years at the rate of interest 12% compounded annually, if $(1+0.12)^6$ 1.9738.

a) Rs.45,575 b) Rs.40,575

c) Rs.39,465 d) Rs.37,868

30) If a loan of ₹ 30,000 is to be paid in 5 annual instalments with interest rate of 14% per annum,then the equal annual instalment will be _____ (Take P(5.014) = 3.43305)

a) ₹ 7400 b) ₹ 8100

c) ₹ 8738 d) ₹ 8322

31) What is the present value of Rs.5,000 to be obtained after six years if the interest rate is 5% p.a.? (Use the following if needed: $\frac{1}{1.05^n}$ =0.74621,0.71068,0.67686 and 0.64462, for n =6,7,8 and 9 respectively.)

a) Rs.3,731 b) Rs.3,553

c) Rs.3,384 d) Rs.3,223

32) Find the effective rate of interest if an amount of ₹40,000 deposited in a bank for 1 year at the rate of 10% compounded semi annually.

a) 10.20% p.a. b) 10.05% p.a.

c) 10.25% p.a. d) 10.10% p.a.

33) You are considering two investments:

Investment A yields 10% compounded quarterly. Investment B yields r% compounded semi-annually.

Both Investments have equal annual yields. Find r.

a) 19.873% b) 10%

c) 10.38% d) 10.125%

11. LIMITS AND CONTINUITY

34) If $\lim_{x \to 2} \frac{x^2-4x+4}{x-2}$ =

a) 0 b) 1 c) 2 d) 0.5

12. DIFFERENTIAL CALCULUS

35) If f(x) = $(x + 1)^{(x+1)}$ then find f^1 (0)

a) 0 b) 1 c) - 1 d) 2

36) If f(x) = (x – 1) x (x + 1) then $\frac{dy}{dx}$

a) $3x^2 - 1$ b) $3x^2 + 1$

c) $x^2 - 3$ d) $x^2 + 3$

37) If a function is given by f(x) = e^{3x} , what is the derivative of the function?

a) 3. e^{3x} b) e^{3x}

c) $3xe^{3x}$ d) $3e^{3x}$ + 3

38) Find $\frac{dy}{dx}$ for $x^2y^2 + y = 0$

a) $\frac{dy}{dx} = \frac{2y^2x}{2y^2x^2+1}$ b) $\frac{dy}{dx} = \frac{-2y^2x}{2yx^2+1}$

c) $\frac{dy}{dx} = \frac{-2y^2x}{2y^2x^2}$ d) $\frac{dy}{dx} = \frac{2y^2x}{2y^2x^2}$

13. INTEGRAL CALCULUS

39) Evaluate $\int_0^1 x^2 \sqrt{x^3+4}\, dx$

a) $\frac{2}{9}\left(4^{\frac{3}{3}} - 3^{\frac{3}{2}}\right)$ b) $\frac{2}{9}\left(5^{\frac{3}{2}} - 4^{\frac{3}{2}}\right)$

c) $\frac{2}{9}\left(4^{\frac{3}{2}} + 3^{\frac{3}{2}}\right)$ d) $\frac{2}{9}\left(5^{\frac{3}{2}} + 4^{\frac{3}{2}}\right)$

40) $\int_0^1 u(1-u)^{10}\, dv$

a) $\frac{1}{10 \times 11}$ b) $\frac{1}{12 \times 11}$

c) $\frac{1}{10 \times 9}$ d) $\frac{1}{12 \times 13}$

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CA FOUNDATION - STATISTICS
JUNE 2024 ATTEMPT - MEMORY BASED QUESTION PAPER

1. MEASURES OF CENTRAL TENDENCY - 1

1) Which of the following measure of central tendency depends on the position of the observation?

a) Mean b) Median

c) Mode d) Harmonic mean

2) Which of the following measure of central tendency will be unaffected if the lower and highest observations are removed?

a) Mean b) Mode

c) Median d) Range

3) The mean of a set of 20 observations is 18.3. The mean is decreased by 0.6 when a new observation is added to the set. The new observation is:

a) 17.6 b) 18.9

c) 5.7 d) 24.6

4) If there are two groups containing 40 and 30 observations and have arithmetic means as 50 and 60, then the combined arithmetic mean is:

a) 55.48 b) 56.35

c) 54.28 d) 59.28

2. MEASURES OF CENTRAL TENDENCY - 2

5) If Mean of a data set 22 and Median is 22.33, then the Mode is:

a) 21 b) 21.34

c) 22.99 d) 21.54

3. MEASURES OF DISPERSION

6) For the first 20 natural numbers, the standard deviation is:

a) 5.77 b) 7.75 c) 5.64 d) 6.54

7) If Mean Deviation about Arithmetic Mean is 1.78 and Arithmetic Mean is 3.50 then coefficient of Mean Deviation about Arithmetic Mean is:

a) 50.85 b) 44.33

c) 52.65 d) 51.85

8) The coefficient of the range of the data 7, 8, 4, 1, 9, 12, 18, 16, 94, 3, 5, -6 is _____

a) 133.6 b) 163.3

c) 166.3 d) 113.6

9) If in a data a set, 25% of values are less than 30 and one-fourth values are greater than 90, then coefficient of QD

a) 40 b) 30 c) 70 d) 50

10) Consider the data sets: X = {-6, 2, -2, 6}; Y = {4, 8, 2, 6}; z = {103, 100, 102, 101}. Let S_X, S_Y and S_Z be the standard deviations of the sets X, Y and Z respectively. We have the relation:

a) $S_x < S_y < S_z$ b) $S_z < S_y < S_x$

c) $S_x < S_z < S_y$ d) $S_y < S_z < S_x$

11) If Arithmetic Mean and coefficient of variation of y are 5 & 20 respectively, the variance of 12 – 3y

a) 9 b) 81 c) 3 d) 100

4. CORRELATION

12) If cov (x, y) = -2.15, S_x = 1.30; S_y = 2.50 then find correlation coefficient r?

a) -0.66 b) 0.66 c) 0.76 d) 0.99

13) Spearman's Correlation Coefficient is used to check:

a) The scattering of the data

b) The relationship in variables

c) The median of a data

d) The range of a data

14) The range of the correlation coefficient is:

a) Between -1 and 1

b) Between -1 and 1 including 1

c) Between -1 and 1 including -1

d) Between -1 and 1 including -1, 1

15) For a group of 10 students the sum of squares of difference in ranks for Physics and Chemistry marks was 60, what is the value of rank correlation coefficient. (Choose the nearest value)

a) 0.636 b) 0.725

c) 0.698 d) 0.842

5. REGRESSION

16) If the regression lines 3x – 4y – 8 = 0 and 4x – 3y = 1 then the correlation coefficient between x and y is:

a) ¾ b) 3/8 c) 4/8 d) ¼

6. INDEX NUMBERS

17) The average of base year and current year is used in _____ index number.

a) Laspeyres's

b) Paasche's

c) Fisher's ideal

d) Marshall – Edgeworth

18) Which index number formula does not satisfy the time reversal test?

a) Fisher's ideal index & Laspeyre's index

b) Laspeyre's index & Paasche's index

c) Paasche's index & Fisher's ideal index

d) Laspeyre's index, Fisher's ideal index and Paasche's index

19) If the prices of all commodities in the base year are twice the values of respective commodities in the current year, then the Fisher's ideal index number is equal to:

a) 200 b) 50 c) 400 d) 25

20) Which index number formula satisfies both the time reversal test and factor reversal tests?

a) Fisher's ideal index

b) Laspeyre's index

c) Paasche's index

d) Marshall-Edgeworth index

21) Which of the following is not a test of adequacy in the context of index numbers?

a) Unit test

b) Square test

c) Circular test

d) Factor reversal test

7. STATISTICAL DESCRIPTION OF DATA - 1

NIL

8. STATISTICAL DESCRIPTION OF DATA – 2

22) Two frequency distribution are given to you. To compare them visually the best diagram to be drawn on same sheet is:

a) Pie Chart b) Histogram

c) Frequency polygon

d) Bar chart

23) A less than ogive curve drawn by plotting

a) Less than cumulative frequency on the vertical axis

b) More than cumulative frequency on the vertical axis

c) Highest frequencies on vertical axis

d) Lowest frequencies on vertical axis

24) The following set of data cannot be presented in a table.

a) The heights of students described in centimeters

b) The weights of candidates expressed in kilograms

c) The amount of rainfall opined as "medium", "average", "heavy", etc.

d) The number of bills per day cleared by an auditor in a month

25) A histogram & pie chart represent the same data on monthly expenses of a household. Which statement is most likely true?

a) The histogram only shows the frequency of each expense category, while the pie chart shows the proportion of each category.

b) Both the histogram and pie chart show the frequency of each expense category.

c) Both the histogram and pie chart show the proportion of each expense category.

d) Pie charts are always better than histograms for representing expenses.

26) An ogive is used to represent:

a) The frequency of each data point

b) The number of data points falling below a specific value

c) The proportion of data points falling below a specific value

d) The relationship between two variables

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27) According to the empirical rule, if the data form a "bell-shaped" distribution, then the maximum and minimum frequencies occur at ___ and __ respectively.

a) Middle, left end b) Middle, right end
c) End, Middle d) Middle, ends

9. PROBABILITY

28) A number is selected at random from the set {1, 2 - - - - 99}. The probability that it is divisible by 9 or 11 is _____

a) 19/100 b) 19/99
c) 10/100 d) 10/99

29) Two coins are tossed. Define the events A = {"the first toss is head"}, A_2 = {"number of heads is 2"}, A_1 = {"number of heads is 1"}, A_0 = {"number of heads is 0"} and A_3 = {"both outcomes are alike"}. The event A is independent of _____

a) A_2 b) A_3
c) A_0 d) A_1 and A_0 both

30) From a bag containing 4 red, 5 blue and 6 white caps, two caps are drawn without replacement. What is the probability that the caps are of different colours?

a) $\frac{74}{105}$ b) $\frac{37}{105}$ c) $\frac{94}{105}$ d) $\frac{31}{105}$

31) A question in statistics is given to three students A, B and C. Their chances of solving the question are 1/3, 1/5 and 1/7 respectively. The probability that the question would be solved is:

a) $\frac{19}{35}$ b) $\frac{16}{35}$ c) $\frac{1}{105}$ d) $\frac{104}{105}$

32) A company produces two types of products, A and B. The probability of a defective product in type A is 0.05 and in type B is 0.03. If the company produces 60% type A and 40% type B, what is the probability of a randomly selected product being defective?

a) 0.042 b) 0.03 c) 0.048 d) 0.052

10. RANDOM VARIABLES

33) A random variable has the following probability distribution:

X	2	3	5
P	K	2K	2K

Find K.

a) $\frac{1}{3}$ b) $\frac{2}{5}$ c) $\frac{1}{5}$ d) $\frac{2}{3}$

34) The following table gives the cumulative probability function of X:

X	0	1	2	3	4	5
P(X)	6/30	5/30	13/30	1/15	1/10	1/30

The expectation of X is _____

a) 1.8 b) 1.7 c) 1.5 d) 1.6

11. THEORETICAL DISTRIBUTION

35) For a normal distribution, the ratio of MD and SD

a) 0.4 b) 0.6 c) 0.8 d) 1.0

36) The mean of Poisson distribution is 4. The probability of two successes is:

a) $\frac{8}{e^4}$ b) $\frac{4}{e^4}$ c) $\frac{16}{e^4}$ d) $\frac{8}{e^2}$

37) For a binomial distribution, variance is 0.2 and the mean is 0.6. The probability of getting 3 successes out of a trial of 5 is _____

a) $\frac{80}{3^5}$ b) $\frac{40}{3^5}$ c) $\frac{20}{3^5}$ d) $\frac{160}{3^5}$

38) A company produces 5 defective items out of 300 items. The probability distribution follows a:

a) Binomial distribution
b) Normal distribution
c) Poisson distribution
d) Standard normal distribution

12. SAMPLING

39) Which of the following is not a type of sampling?

a) Probability b) non-probability
c) Stand-alone d) Mixed

40) Which sampling is based on the discretion of the sampler?

a) Systematic b) multi-stage
c) Stratified d) Purposive

HAPPY LEARINING

CA FOUNDATION - LOGICAL REASONING
JUNE 2024 ATTEMPT - MEMORY BASED QUESTION PAPER

1.SERIES

1) What comes next in the series: FMAMJJASON?

a) DJM b) DBM c) DJF d) DDJ

2) Find the missing value in the series: 51, 52, 60, 87, 151, _____ 492.?

a) 195 b) 276 c) 317 d) 420

2.ODDMAN OUT

3) In a series of letters, which one is the odd one out: BDFH, JLNP, RTVX, ZBDE?

a) BDFH b) JLNP

c) RTVX d) ZBDE

3.CODING-DECODING

4) In a certain code TEACHER is written as VGCEJGT, how is CHILDREN written in that code.?

a) EJKNEGTP b) EGKNFITP

c) EJKNFGTO d) EJKNFTGP

5) In a certain code INACTIVE is written ns VTTCANIE, how is COMPUTER written in the same code.?

a) PMOCRETU b) ETUPMOCR

c) UTEPMOCR d) MOCPETUR

4.DIRECTIONS

6) Ram started walking from A, 200 m towards North to reach B. Then he turned right and walks 300 m to reach C. Then he turns right and walks 350 m to reach D. Then he turns left and walks 150 m to reach E. Finally, he turns left and walks 150 m. He arrived at the point F. What is the distance between point A and F?

a) 450 m b) 200 m

c) 250 m d) 300 m

7) Roy walks 2 kms to West, then turns and starts walking South-East. He walks 3 kms. Then he turns North and walks 5 kms. Then again, he turns East and walks 2 kms. Finally, he turns South and walks 6 kms. In which direction, is from the starting point?

a) South-West b) South-East

c) North-East d) North-West

8) Shyam walks 12 m South from his house, turns left and walks 20 m, again turns left and walks 45 m again turns right and walks 10 m to reach coffee shop. In which direction is coffee shop from his house?

a) South-West b) East

c) North-East d) North

9) A car starts from a point, runs 20 kms towards north, turns right and runs 35 kms, turns right again and runs. Which is the direction now it is facing?

a) North b) South

c) East d) West

10) If Shyam sees the rising sun behind the tower and setting sun behind the Railway station from his house. What is the direction of tower from Railway station?

a) South b) North c) West d) East

5.BLOOD RELATIONS

11) A says B is my sister's son, B says D is my father-in-law, C says D is my wife's brother. What is the relationship between A and D?

a) Uncle -nephew b) Brother-sister

c) Father-son d) Cousins

12) A is B's sister, C is B's mother, D is C's father, E is D's mother. How is A related to D?

a) Grandmother b) Grand father

c) Daughter d) Grand Daughter

13) Raju is a husband of Devi, Karan is father of Gopal, Arjun is a son of Shobha, Ashok is brother of Shobha, Karan is a father of arjun, Karan is son-in-law of devi, then how is Raju is related to Arjun?

a) Father b) Uncle

c) Son-in-law d) Grand father

14) Pointing towards a photograph Mrs. x says, "This man's son's sister is my mother-in-law. How is Mrs. x husband is related to a man in the photograph?

a) Son b) Grand son

c) Brother d) Daughter

15) X, is a male introduces Y saying, He is the husband of the granddaughter of the father of my father. How is Y related to X?

a) Brother b) Father

c) Brother-in- law d) Father-in-law

6.SEATING ARRANGEMENTS

16) Five players named as A, B, C, D and E are sitting on a bench, facing south, and are waiting to be interviewed by a selector. The person C is an immediate neighbor of both A and B, the person A is the fourth person from right end, If E is to right of B, then where is E sitting?

a) Fifth from right end

b) Fourth from right end

c) Fifth from left end

d) Second from right end

17) The persons named U, V, W, X, Y and z are sitting along the circumference of a round table. They are facing the center of the round table. Given: X is the third left of Z and U is the second right of X; W is third to Y's right. Then V is sitting immediate left to

a) V b) U c) W d) X

18) Eight friends A. B, C. D, E, F, G, and H are sitting around a circular table facing the Centre. A is sitting two places to the right of B, who is sitting directly opposite D. C is sitting to the immediate left of B and to the immediate right of E. F, who is opposite to G, is not sitting next to A. Who is sitting to the immediate left of H?

a) A b) B c) C d) D

19) 5 persons are standing in a line. The 2 persons at the extreme ends are a professor and a businessman. An advocate is standing to the right of student. An author is to the left of the businessman. Counting from the Professor's end. the author is at which place?

a) 2^{nd} b) 3^{rd} c) 4^{th} d) 5^{th}

20) A, B, C, D, E and F are standing in a circle talking, facing inward, E is right of C, who is standing 3 places away from D. A is standing 2 seats away from F.

Which of the following has to be true?

a) A is standing opposite to C

b) A is standing next to E

c) A is standing next to D

d) A is standing next to B

HAPPY LEARINING

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BUSINESS MATHEMATICS, SATISTICS & LOGICAL REASONING
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- 41 ALL INDIA RANKS IN CA INTER IN THE LAST 10 ATTEMPTS[TILL NOV 2023 ATTEMPT]
- 2024 - 50 ALL INDIA RANKS IN CMA INTER RESULTS OF DEC 2023 ATTEMPT INCLUDING ALL INDIA 5TH RANK.
- OWN HOSTEL FACILITY FOR BOYS & GIRLS.

CA FOUNDATION - BUSINESS MATHEMATICS
JUNE 2024 ATTEMPT - PROBABLE SUGGESTED ANSWERS

1) $\frac{1}{4}, \frac{1}{6}, \frac{1}{10}, \frac{1}{x}$ are in proportion.

$\frac{1}{4}.\frac{1}{x} = \frac{1}{6}.\frac{1}{10}$

$\frac{1}{4x} = \frac{1}{60}$

4x = 60

x = 15

Option: b)

2) $2^x = 4^y = 8^z$

$2^x = 2^{2y} = 2^{3z}$

x = 2y = 3z

Let, x = 2y = 3z = k

Now, $\frac{1}{2x} + \frac{1}{4y} + \frac{1}{6z} = \frac{24}{7}$

$\frac{1}{2.k} + \frac{1}{4\times\frac{k}{2}} + \frac{1}{6\times\frac{k}{3}} = \frac{24}{7}$

$\frac{1}{2k} + \frac{1}{2k} + \frac{1}{2k} = \frac{24}{7}$

$\frac{3}{2k} = \frac{24}{7}$

$K = \frac{7}{16}$

$\therefore$ 3z = k $\rightarrow$ $3z = \frac{7}{16} \rightarrow z = \frac{7}{48}$

Option: c)

3) Given, $\log_a^b = 3$, $\log_b^c = 2$

Now, $\log_a^c = \log_b^c \times \log_a^b$

= 2 × 3 = 6

Option: b)

4) A = {1,2,3}

R = {(1,1) (1,2) (1,3) (3,3)} $\rightarrow$ Not reflexive

S = {(1,1) (1,2) (2,1) (2,2) (3,3)}

''S'' is Reflexive, symmetric, and transitive.

So ''S'' is an equivalence relation.

Option: b)

5) Given, t_7 = x and $t_{x+7} = 0$

$d = \frac{t_{x+7}-t_7}{(x+7)-7} = \frac{0-x}{x} = -1$

Now, $t_x = t_7 + (x-7)d$

$= x + (x-7)(-1)$

$= x - x + 7 = 7$

Option: b)

6) Given, t_2 = a and t_8 = a

Now, $d = \frac{t_8-t_2}{8-2} = \frac{a-a}{6} = 0$

$\therefore$ The given AP is a constant sequence with number 'a'.

(i.e. a, a, a, a, a, ……)

So, S_n = a + a + a + a + …… + a = na

Option: a)

7) Given, $t_3 = 7$, $t_7 = 3t_3 + 2 = 3(7) + 2 = 23$

$d = \frac{t_7-t_3}{7-3} = \frac{16}{4} = 4$

Option: a)

8) Given, AM = 10 $\Rightarrow \frac{a+b}{2} = 10 \Rightarrow$ a + b = 20

GM = 6 $\Rightarrow \sqrt{ab} = 6 \Rightarrow$ ab = 36

Now, $(a-b)^2 = (a+b)^2 - 4ab$

$(a-b)^2 = (20)^2 - 4 \times 36$

$= 400 - 144$

$(a-b)^2 = 256$

$\Rightarrow$ a – b = 16

Option: c)

9) x^2 - 7x + 10 = 0

(x – 2) (x – 5) = 0

X = 2 and x = 5

Option: b)

10) x^2 – 8x + 12 = 0

$\alpha + \beta = 8;\ \alpha\beta = 12$

Now, $\frac{1}{\alpha} + \frac{1}{\beta} = \frac{\alpha+\beta}{\alpha\beta} = \frac{8}{12} = \frac{2}{3}$

Option: a)

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11) By Verification, (a)

(or)

$S_1 = \frac{-(-3)}{1} = 3$	a) – 2, 2, 3
$S_2 = \frac{-4}{1} = -4$	S_1 = - 2 + 2 + 3 = 3
S_3 = - 12	S_2 = (- 2) × 2 + 2 × 3 + 3 ×-2 = -4
	S_3 = (- 2) × 2. 3 = - 12

Option: a)

12) Let Fraction = $\frac{x}{y}$

Given, $\frac{x+3}{y+1} = 1$	$\frac{x-2}{y-1} = \frac{1}{2}$
x + 3 = y + 1	2x – 4 = y – 1
x – y = - 2 → (1)	2x – y = 3 → (2)

On solving (1) & (2) we get x=5, y=7

Denominator = y=7

Option: c)

13) Given equation is ax^2 + bx + c = 0 and α, β are roots.

Now, the equation whose roots are $\frac{1}{\alpha}$ and $\frac{1}{\beta}$ is f $\left(\frac{1}{x}\right) = 0$

a $\left(\frac{1}{x}\right)^2$ + b $\left(\frac{1}{x}\right)$ + c = 0

$\frac{a}{x^2} + \frac{b}{x} + c = 0$

$\frac{a+bx+cx^2}{x^2} = 0$

cx^2 + bx + a = 0

Option: b)

14) Given, 5 boys + 3 girls → Total = 8

Condition: No two girls come together.

First arrange 5 boys in 5! Ways

Then, there are 6 gaps.

In 6 gaps, 3 girls can be arranged in $6P_3$ ways

So, Total arrangements = 5! × $6P_3$

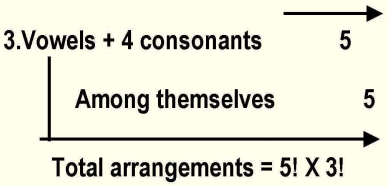
= 120 × 120 = 14,400

Option: a)

15) Given word is STADIUM

It has 7 letters (3 vowels and 4 consonants)

Condition: all vowels come together.



Option: d)

16) Select 4 lower case letters in 26_{c_4} and 2 upper case letters in 22_{c_2} war.

First fill the starting place with Capital letter in 2_{p_1} ways

Now the remaining 5 places in 5! Ways.

So, total passwords = 26_{c_4} × 22_{c_2} × 2_{p_1} × 5!

= 26 × 25 × 24 × 23 × 22 × 5 × 21

Option: a)

17) Given, number of trophies is 5

Condition: A particular trophy always at the middle.

Arrange that particular trophy at middle in 1 way.

Then, the remaining 4 trophies in 4 places in 4! Ways.

So, total arrangements = 1 × 4! = 24

Option: a)

18)

By Verification,

d) (1, 1) $1 \leq 3$, $1 \leq 4$, $4 + 3 = 7 \leq 12$

Option: d)

19) Given, No. of Senior typists = S

No. of Junior typists = J

The number of reports typed by a senior per day = 5 units

The number of reports typed by a junior per day = 3 units

So, total work = 5S + 3J

Given, at least 30 units of work required per day.

∴ 5S + 3J ≥ 30

Option: b)

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20)

P = 4,500 → S. I = 2,700

A = 7,200 ↗

T = 2 years

$R = \frac{100\ SI}{PT} = \frac{100 \times 2,700}{4,500 \times 2} = 30\%$

Option: c)

21) P = ₹ 85,000

A = ₹ 4,84,050

n = 10 years

R =?

$A = P(1 + i)^n$

$85,000(1 + i)^{10} = 4,84,050$

$(1 + i)^{10} = 5.6947$

By Verification,

R = 19%

$(1.09)^{10} = 5.69468$

Option: c)

22) R = 1% per month = 12% p. a.

Effective rate of interest is $E = (1 + i)^n - 1$

$= (1.01)^{12} - 1$

= 0.126825

= 12.6825%

Option: c)

23) R = 8% $\Rightarrow$ i = 0.08

P = ₹ 750

A = 2 × 750 = ₹ 1,500

$A = P(1 + i)^n$

$750(1.08)^n = 1500$

$(1.08)^n = 2$

∴ n = 9 years

Option: c)

24) The difference between CI & SI for 2 years at 'r' rate of interest is $p \times r^2$.

Option: a)

25) P = ₹ 5,000

R = 12.5% $\Rightarrow$ i = 0.125 & n = 3

$CI = P[(1 + i)^n - 1]$

$= 5,000\ [(1.125)^3 - 1]$

= ₹ 2,119

Option: a)

26) P = ₹ 4,000

n = 4

R = 4%

Future Value = $A = p[(1 + i)^n]$

$= 4,000\ (1.04)^4 = 4,679$

Option: b)

27) Given, $A_3 = 400$, $A_6 = 500$

Now, $\frac{A_6}{A_3} = \frac{p(1+i)^6}{p(1+i)^3} = \frac{500}{400}$

$(1 + i)^3 = 1.25$

Now, $A_3 = P(1 + i)^3 = 400$

$= P \times 1.25 = 400$

P = 320

Option: a)

28) Annuity = A = Rs.100

i = 0.12, g = 0.04

PV of GP = $\frac{A}{i-g} = \frac{100}{0.12-0.04}$ = Rs.1,250

Option: c)

29) Annuity = A = 5,000

n = 6

i = 0.12

FV of Annuity regular = $\frac{A}{i}[(1 + i)^n - 1]$

$= \frac{5,000}{0.12}[(1.12)^6 - 1] = 40,575$

Option: b)

30) n = 5, i = 0.14

Loan = 30,000

PV of Annuity regular = 30,000

$\frac{A}{i}[1 - (1 + i)^{-n}] = 30,000$

$\frac{A}{0.14}[1 - (1.14)^{-5}] = 30,000$

A × 3.43305 = 30,000

A = 8,738

Option: c)

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31) A = 5,000

n = 6

i = 0.05

Present value = P = $\frac{A}{(1+i)^n}$

= $\frac{5,000}{(1.05)^6}$ = 3,731

Option: a)

32) R = 10% semi annually

i = $\frac{R}{200}$ = 0.05 & m=2

E = $(1 + i)^m - 1$

= $(1.05)^2 - 1 = 0.1025 = 10.25\%$

Option: c)

33) Investment A Investment B

$n_1 = 4$ $n_2 = 2$

$R_1 = 10\%$ $R_2 = r\%$

$i_1 = \frac{R_1}{400} = \frac{10}{400} = 0.025$ $i_2 = \frac{R_2}{200} = \frac{r}{200}$

Given two Investments have equal annual yields.

$(1 + i_1)^{n_1} = (1 + i_2)^{n_2}$

$(1.025)^4 = (1 + \frac{r}{200})^2$

$1.1038128 = (1 + \frac{r}{200})^2$

$\Rightarrow$ r = 10.125%

Option: d)

34) $\lim_{x \to 2} \frac{x^2-4x+4}{x-2} = \lim_{x \to 2} \frac{(x-2)^2}{x-2}$

$= \lim_{x \to 2} (x - 2)$

= 2 – 2 = 0

Option: a)

35) We know $\frac{d}{dx}(x^x) = x^x(1 + \log x)$

Let f(x) = $(x + 1)^{(x+1)}$

$f'(x) = (x + 1)^{x+1}[1 + \log (x + 1)]$ (1)

$f'(0) = 1' \times [1 + \log 1]$

$f'(0) = 1$

Option: b)

36) f(x) = $(x - 1)\, x\, (x + 1)$

= $x^3 - x$

$f'(x) = \frac{dy}{dx} = 3x^2 - 1$

Option: a)

37) y = e^{3x}

$\frac{dy}{dx} = \frac{d}{dx}(e^{3x})$

= $e^{3x} \times 3$

= $3e^{3x}$

Option: a)

38) $x^2\, y^2 + y = 0$

$\frac{dy}{dx} = \frac{-\frac{df}{dx}}{\frac{df}{dy}}$

= $\frac{-(y^2.\ 2x+0)}{(x^2.2y+1)}$

= $\frac{-2xy^2}{2x^2y+1}$

Option: b)

39) We know $\int [f(x)]^n . f^1(x) dx = \frac{(f(x))^{n+1}}{(n+1)} + c$

$\int_0^1 x^2\sqrt{x^3+4}\, dx = \frac{1}{3}\int_0^1 (x^3+4)^{\frac{1}{2}}\ (3x^2) dx$

$= \frac{1}{3}\left[\frac{2}{3}(x^3+4)^{\frac{3}{2}}\right]_0^1$

$= \frac{2}{9}\left[(1+4)^{\frac{3}{2}} - (0+4)^{\frac{3}{2}}\right]$

$= \frac{2}{9}\left[5^{\frac{3}{2}} - 4^{\frac{3}{2}}\right]$

Option: b)

40) We know $\int_0^a x(a-x)^n\, dx. = \frac{a^{n+2}}{(n+1)(n+2)}$

$\int_0^a u(1-u)^{10}\, du. = \frac{1^{10+2}}{(10+1)(10+2)}$

= $\frac{1}{11 \times 12}$

Option: b)

HAPPY LEARINING

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CA FOUNDATION - STATISTICS
JUNE 2024 ATTEMPT - PROBABLE SUGGESTED ANSWERS

1. MEASURES OF CENTRAL TENDENCY - 1

1) Among the given options, median depends on the position of the observations.

Option: b)

2) Among the given options, Median is unaffected if the lower and highest observations are removed.

In other words, Median is unaffected by the extreme values of the data.

Option: c)

3) Given that, n = 20 and $\bar{x} = 18.3$

Let a be the new observation.

When a new observation is added, then the new mean is:

$\bar{x}_c = 18.3 - 0.6 = 17.7$

$\Rightarrow \frac{n\bar{x}+a}{n+1} = 17.7 \Rightarrow \frac{20\times 18.3+a}{21} = 17.7$

$\Rightarrow 366 + a = 371.7 \Rightarrow a = 371.7 - 366 = 5.7$

Option: c)

4) Given that $n_1 = 40,\ n_2 = 30,\ \bar{x}_1 = 50$ and $\bar{x}_2 = 60$

The combined arithmetic mean is:

$\bar{x}_{12} = \frac{n_1\bar{x}_1+n_2\bar{x}_2}{n_1+n_2} = \frac{2000+1800}{70} = 54.28$

Option: c)

2. MEASURES OF CENTRAL TENDENCY - 2

5) Given that, Mean = 22 and Median = 22.33

Therefore, Mode = 3Median – 2Mean

= 66.99 – 44 = 22.99

Option: c)

3. MEASURES OF DISPERSION

6) We know that the SD for first n natural numbers is:

$SD = \sqrt{\frac{n^2-1}{12}}$

Here n = 20

$\therefore SD = \sqrt{\frac{20^2-1}{12}} = \sqrt{\frac{399}{12}} = 5.77$

Option: a)

7) Given that, $M.D._{\bar{x}} = 1.78$ and $\bar{x} = 3.50$

Therefore, Coefficient of M.D. about A.M. is:

Coefficient of

$M.D._{\bar{x}} = \frac{M.D._{\bar{x}}}{\bar{x}} \times 100 = \frac{1.78}{3.50} \times 100 = 50.85$

Option: a)

8) In the given data, L = 94 and S = -6

Therefore,

Coefficient of Range

$= \frac{L-s}{L+S} \times 100 = \frac{100}{88} \times 100 = 113.6$

Option: d)

9) Given that, $Q_1 = 30$ and $Q_3 = 90$

Coefficient of Q.D.

$= \frac{Q_3-Q_1}{Q_3+Q_1} \times 100 = \frac{60}{120} \times 100 = 50$

Option: d)

10) From the given data, we have the following:

X	Y	Z	$(X-\bar{X})^2$	$(Y-\bar{Y})^2$	$(Z-\bar{Z})^2$
-6	4	103	36	1	2.25
2	8	100	4	9	2.25
-2	2	102	4	1	0.25
6	6	101	36	1	0.25
Total		80	12		3

Using calculator, $\bar{X} = 0, \bar{Y} = 5$ & $\bar{Z} = 101.5$

From the above table, we can observe that:

$\sum(Z-\bar{Z})^2 < \sum(Y-\bar{Y})^2 < \sum(X-\bar{X})^2$

Hence, $S_Z < S_Y < S_X$

Option: b)

11) Given that, $\bar{y} = 5$ & $C.V(y) = 20$

We know that, $C.V(y) = \frac{\sigma_y}{\bar{y}} \times 100$

$\Rightarrow 20 = \frac{\sigma_y}{5} \times 100 \Rightarrow \sigma_y = 1 \Rightarrow \sigma_y^2 = 1$

Therefore, Variance of 12 – 3y = $9 \times \sigma_y^2 = 9$

Option: a)

4. CORRELATION

12) From the given data, Karl Pearson's correlation coefficient is given by:

$r = \frac{cov(x,y)}{S_x S_y} = \frac{-2.15}{1.30 \times 2.50} = -0.66$

Option: a)

13) Spearman's Correlation Coefficient is used to check the relationship between the variables.

Option: b)

14) The range of the correlation coefficient is between -1 and 1 including both the limits-1, 1.

Option: d)

15) Given that, n = 10 and $\sum d^2 = 60$

Spearman's rank correlation coefficient is given by:

$R = 1 - \frac{6\sum d^2}{n(n^2-1)}$

$= 1 - \frac{360}{990} = 1 - 0.364 = 0.636$

Option: a)

5. REGRESSION

16) Given regression equations are:

$3x - 4y - 8 = 0\ (Y\ on\ X) \Rightarrow b_{YX} = \frac{3}{4}$

$4x - 3y = 1\ (X\ on\ Y) \Rightarrow b_{XY} = \frac{3}{4}$

$\therefore r = \sqrt{b_{YX} \times b_{XY}} = \frac{3}{4}$

Option: a)

6. INDEX NUMBERS

17) The average of base year and current year is used in Marshall – Edgeworth Index number.

Option: d)

18) Both Laspeyre's index and Paasche's index numbers does not satisfy the time reversal test.

Option: b)

19) Given that $p_0 = 2p_1$

$\therefore Fisher's\ Ideal\ Index\ number\ is\ equal\ to:$

$P_{01} = \sqrt{\frac{\sum p_1 q_0}{\sum p_0 q_0} \times \frac{\sum p_1 q_1}{\sum p_0 q_1}} \times 100$

$\Rightarrow P_{01} = \sqrt{\frac{\sum p_1 q_0}{\sum 2p_1 q_0} \times \frac{\sum p_1 q_1}{\sum 2p_1 q_1}} \times 100$

$= \frac{1}{2} \times 100 = 50$

Option: b)

20) Fisher's ideal index number formula satisfies both time reversal test and factor reversal tests.

Option: a)

21) Among the given options, square test is not a test of adequacy in the context of index numbers.

Option: b)

7. STATISTICAL DESCRIPTION OF DATA – 1: NIL

8. STATISTICAL DESCRIPTION OF DATA – 2

22) To compare the given two frequency distributions visually, histogram is the best diagram to be drawn on the same sheet.

Option: b)

23) A less than ogive curve drawn by plotting the less than cumulative frequencies on the vertical axis and class boundaries on the horizontal axis.

Option: a)

24) The data that cannot be presented in a table is the amount of rainfall opined as "medium", "average", "heavy" etc.

This is because the descriptions "medium", "average", "heavy" are qualitative and subjective, making them difficult to tabulate meaningfully.

Option: c)

25) Among the given options, the most likely true statement to present the data on monthly expenses of a household is that the Pie charts are always better than histograms for representing expenses.

Option: d)

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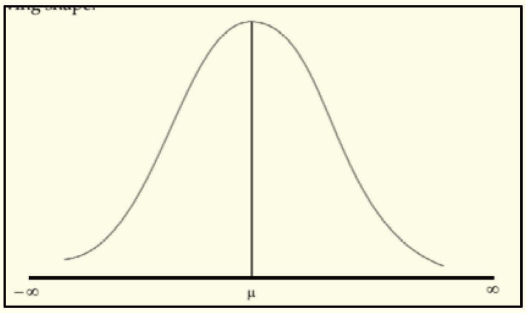
26) An ogive curve is used to represent the number of data points falling below the specific value.

Option: b)

27) If the data form a bell-shaped distribution, then the shape of the bell-shaped curve looks like below:



From the above curve, we can observe that the maximum frequency always lies at middle and the minimum frequencies occur at the tails of the curve on both ends.

Option: d)

9. PROBABILITY

28) Given set is {1, 2, ……, 99}.

A number is selected at random.

A = Number divisible by 9

B = Number divisible by 11

Then A∩B = Number divisible by 99

Then p(A∪B) = P (A) + P(B) – P(A∩B)

$= \frac{11}{99} + \frac{9}{99} - \frac{1}{99} = \frac{19}{99}$

Option: b)

29) Two coins are tossed

A = {HT, HH}, A_2= {HH}, A_1= {HT, TH},

A_0= {TT}, A_3= {HH, TT}

$A \cap A_2$= {HH},

$A \cap A_3$= {HH},

$A \cap A_0 = \emptyset$. so A & A_0 are mutually exclusive

Observe that

$P(A \cap A_2) \neq P(A).P(A_2)$

So A is not independent on A_2

$P(A \cap A_3) = P(A).P(A_3)$

So A is independent of A_3

Option: b

30) There are 4 red caps+ 5blue caps + 6white caps,Total = 15

2 Caps are selected at random without replacement

P (They are different colors)

= RB or BW or WR or BR or WB or RW

$= \left(\frac{^4c_1 \times {}^5c_1 + {}^5c_1 \times {}^6c_1 + {}^6c_1 \times {}^4c_1}{^{15}c_1 \times {}^{14}c_1}\right) \times 2$

$= \frac{20 + 30 + 24}{105} = \frac{74}{105}$

Option: a)

31) Given the chances of 3students A, B, C solving a problem are $\frac{1}{3}, \frac{1}{5}, \frac{1}{7}$

Let P(A) = $\frac{1}{3}$, P(B) = $\frac{1}{5}$, P(C) = $\frac{1}{7}$

Here events are independent.

P (Problem can be solved) = P(A∪B∪C)

= 1 – P $(\bar{A})$. P $(\bar{B})$. P $(\bar{C})$

$= 1 - \left(\frac{2}{3} \times \frac{4}{5} \times \frac{6}{7}\right) = \frac{19}{35}$

Option: a)

32) Let E_1 = Event that the product is type A

E_2= Event that the product is type B

Given P (E_1) = 60% = 0.6, P (E_2) = 40% = 0.4

Let E be the event that the product is defective.

Given P $(\frac{E}{E_1})$ = 0.05, P $(\frac{E}{E_2})$ = 0.03

P (product is defective) = P (E_1) × P $(\frac{E}{E_1})$ + P (E_2) × P $(\frac{E}{E_2})$ = 0.6 × 0.05 + 0.4 × 0.03

= 0.042.

Option: a)

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10. RANDOM VARIABLES

33) To find the value of K, we know that:

$$\sum P = 1 \Rightarrow 5K = 1 \Rightarrow K = \frac{1}{5}$$

Option: c)

34)

X	P(X)	X.P(X)
0	6/30	0
1	5/30	5/30
2	13/30	26/30
3	1/15	3/15 = 6/30
4	1/10	4/10 = 12/30
5	1/30	5/30
Total		54/30 = 1.8

The expected value of X is:

$$E(X) = \sum x\,P(x) = 1.8$$

Option: a)

11. THEORETICAL DISTRIBUTION

35) For a normal distribution, the ratio of MD and SD is 12:15 i.e, 12/15 = 0.8

Option: c)

36) Given that $\lambda = 4$

The PMF of Poisson distribution is:

$$P(X = x) = \frac{e^{-\lambda}\lambda^x}{x!} = \frac{e^{-4}4^x}{x!}, x = 0,1,2, \ldots..$$

The probability of two successes is:

$$P(X = 2) = \frac{e^{-4}4^2}{2!} = \frac{8}{e^4}$$

Option: a)

37) For a binomial distribution,

Variance = 0.2 and Mean = 0.6

$$q = \frac{Variance}{Mean} = \frac{0.2}{0.6} = \frac{1}{3}$$

$$\therefore p = \frac{2}{3}$$

The probability of getting 3 successes out of a trial of 5 is:

$$P(X = 3) = 5_{C_3}\left(\frac{2}{3}\right)^3\left(\frac{1}{3}\right)^2 = \frac{80}{3^5}$$

Option: a)

38) The given scenario follows the key characteristics of the Binomial distribution i.e., finite number of trials (300 items) and each trial have two possible outcomes (defective and non-defective). Hence the probability distribution follows the binomial distribution.

Option: a)

12. SAMPLING

39) Among the given options, the stand-alone method is not a type of sampling method.

Option: c)

40) Purposive sampling is based on the discretion of the sampler.

Option: d)

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CA FOUNDATION - LOGICAL REASONING
JUNE 2024 ATTEMPT - PROBABLE SUGGESTED ANSWERS

SERIES

1)

F M A M J J A S O N D J F

↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb

Ans: c)

2)

51, 52, 60, 87, 151, 276, 496

+1 +8 +27 +64 +125 +216

Ans: b)

ODD MAN OUT

3)

B D F H | J L N P

2 4 6 8 | 10 12 14 16

+2 +2 +2 | +2 +2 +2

R T V X | Z B D F

18 20 22 24 | 26 28 30 31

+2 +2 +2 | +2 +2 +2

Ans: d)

CODING-DECODING

4) T E A C H E R

+2 +2 +2 +2 +2 +2 +2

V G C E J G T

C H I L D R E N

+2 +2 +2 +2 +2 +2 +2 +2

E J K N F T G P

Ans: d)

5)

I N A C T I V E

V I T C A N I E

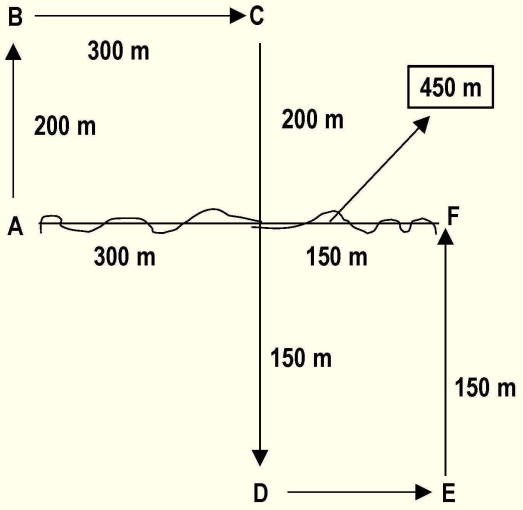
C O M P U T E R

E T U P M O C R

Ans: b)

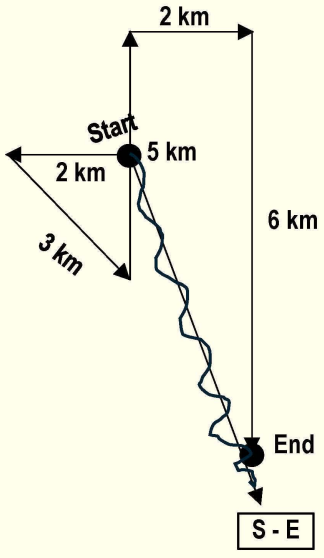
DIRECTIONS

6)



Ans: a)

7)



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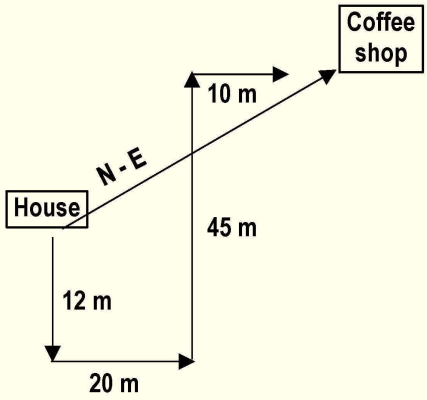
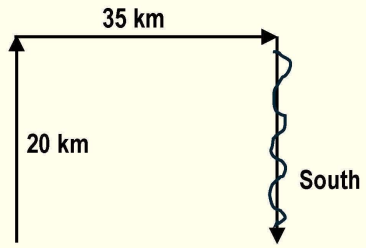
8)



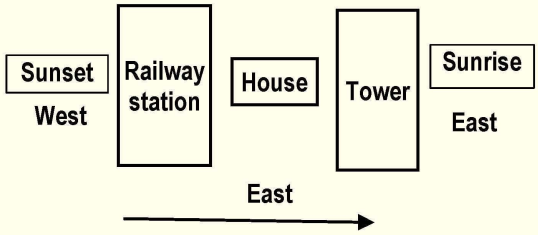
Ans: c)

9)



Ans: b)

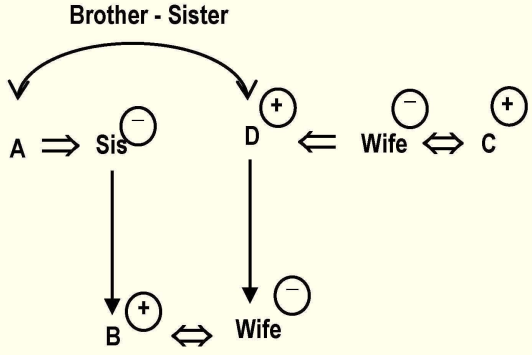
10)



Ans: d)

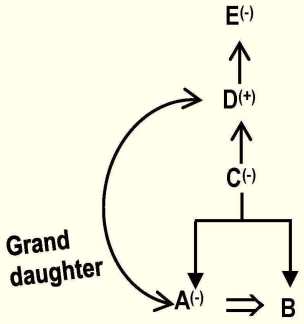
BLOOD RELATIONS

11)



Ans: b)

12)



Ans: d)

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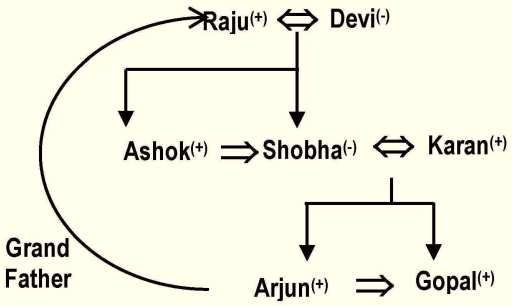

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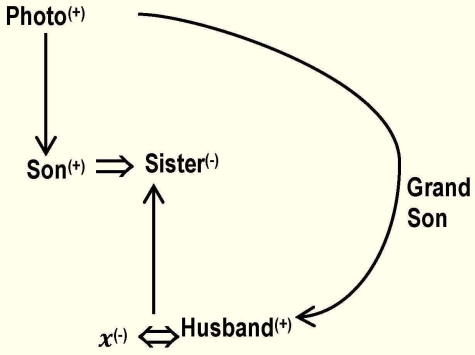
14)



Ans: b)

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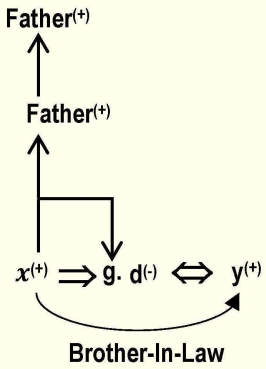
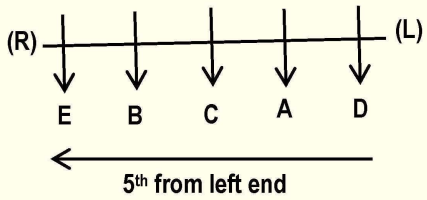


Ans: c)

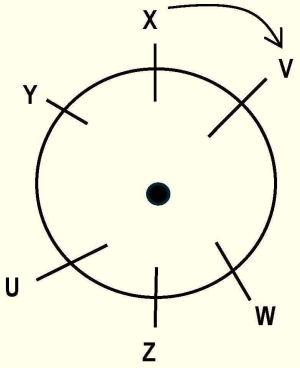
SEATING ARRANGEMENTS

16)

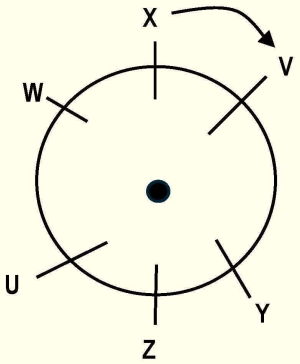


Ans: c)

17)

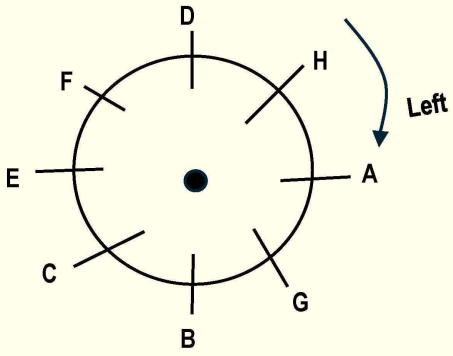


(Or)



Ans: d)

18)

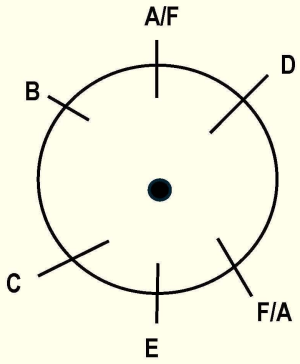


Ans: a)

19)

Ans: c)

20)



Ans: c)

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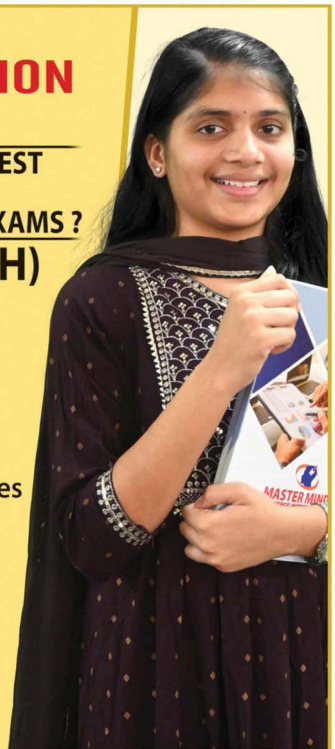

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CMA INTER REGULAR BATCH CLASSES THRU VIDEO RECORDED LECTURES (VOD BATCH) (3 YEARS VALIDITY)

SEPT 2023 CMA RESULTS

VIDEOS VALIDITY 3 YEARS ✱ 2 VIEWS OPTION ✱ PRINTED BOOKS WILL BE SENT THRU COURIER

CMA INTER GROUP 1 (APPROXIMATELY 950 HOURS) FEE: RS 25,999/- COURSE CODE : CC348	CMA INTER GROUP 2 (APPROXIMATELY 600 HOURS) FEE: RS 25,999/- COURSE CODE : CC349	CMA INTER BOTH GROUPS (APPROXIMATELY 1550 HOURS) FEE: RS 45,900/- COURSE CODE : CC358

CA INTER REGULAR BATCH COACHING CLASSES THRU VIDEO RECORDED LECTURES (VOD BATCH) (3 YEARS VALIDITY)

VIDEOS VALIDITY 3 YEARS ✱ 2 VIEWS OPTION ✱ PRINTED BOOKS WILL BE SENT THRU COURIER

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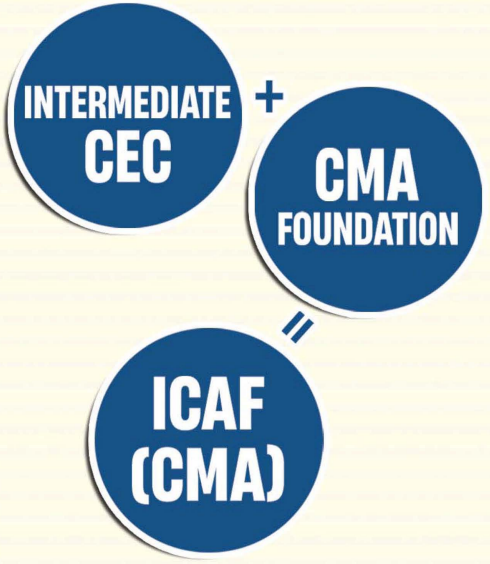
CMA FOUNDATION COACHING FOR INTER CEC STUDENTS CMA FOUNDATION + CEC (INTEGRATED COACHING)

THIS INTEGRATED BATCH IS AVAILABLE IN ALL BRANCHES OF MASTER MINDS

EXCLUSIVE CEC ADMISSIONS ARE ALSO AVAILABLE WITHOUT CMA FOUNDATION



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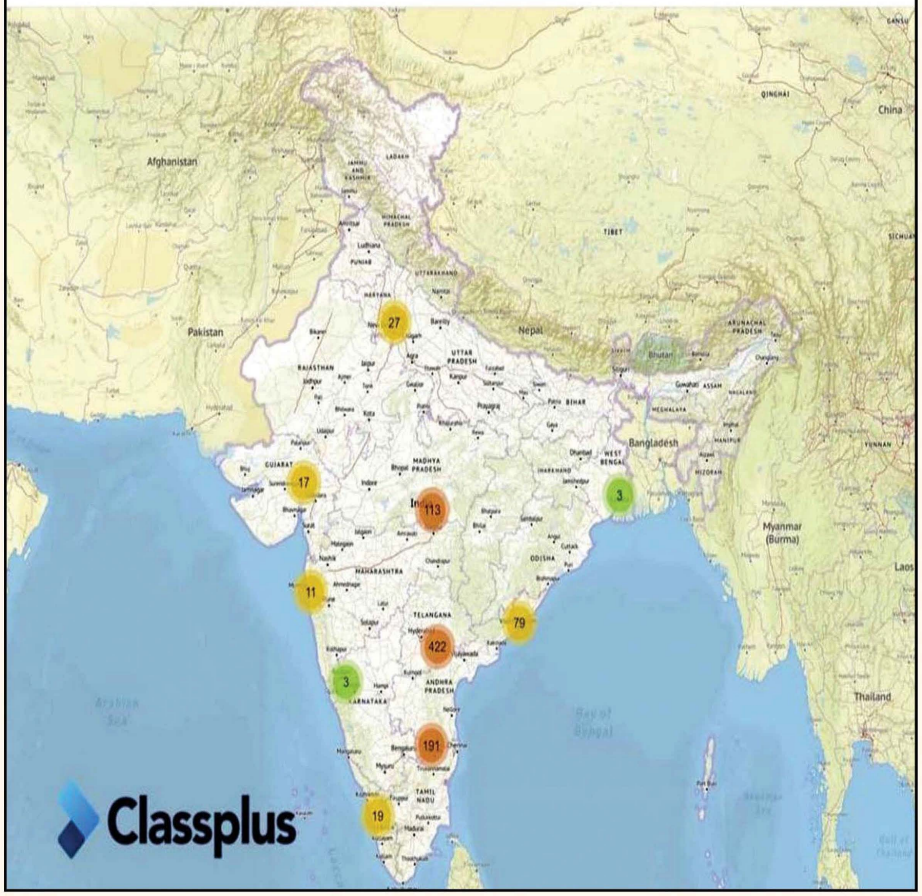
HAPPY TO SHARE THE INSIGHTS OF OUR "PAN INDIA PRESENCE" THRU OUR ONLINE COACHING CLASSES OR TEST SERIES.
MAP GENERATED BY CLASS PLUS TEAM (OUR TECH PARTNER FOR ONLINE SERVICES) ON NOV 22, 2023



MASTERMINDS For CA
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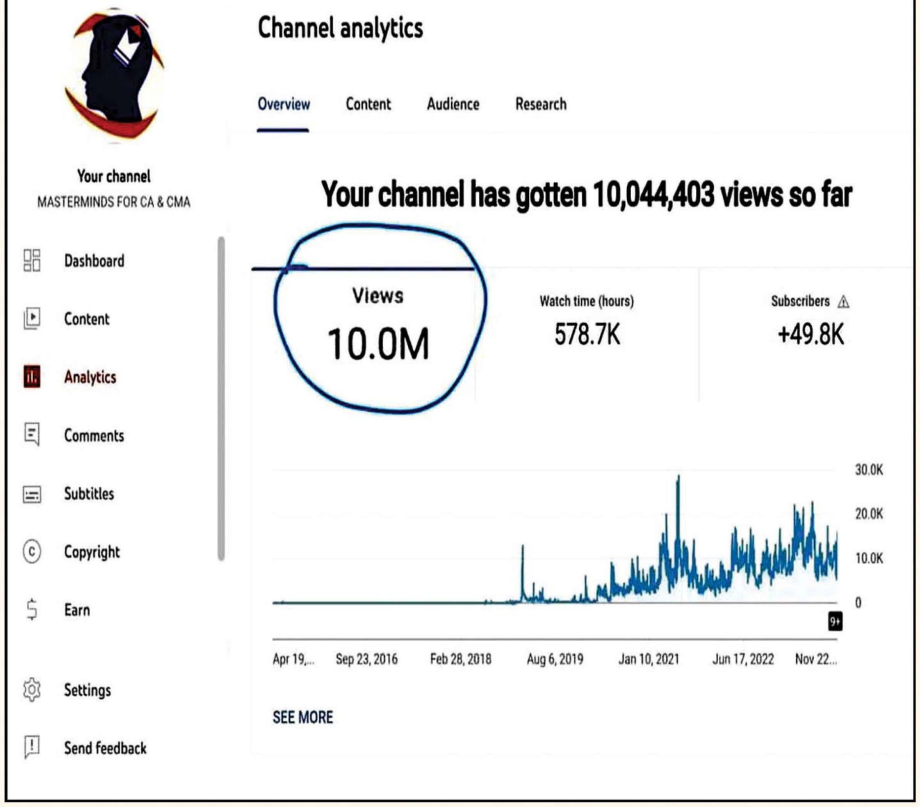
Happy to share a major milestone. Our YouTube channel crossed 1 crore views. Without the love and affection of our students and their parents this would have not been possible. Thanks to our team members, you are the back bone for this great achievement.



PAVANA PUTRA CAMPUS AT GUNTUR (CLASSROOMS FOR CA AND CMA FINAL REGULAR BATCH - COACHING CLASSES)

MEC PRO & CEC PRO

LAUNCHPAD FOR BRIGHT CAREERS IN BUSINESS AND LAW

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- MEANT FOR: STUDENTS ASPIRING FOR BBA OR MBA OR CLAT.
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- BOTH DAY SCHOLAR AND HOSTEL ADMISSIONS AVAILABLE.

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2023 RESULTS

YOU'VE MADE US ALL PROUD!

CONGRATULATIONS TO SREEKANTH KUMAR

ALL INDIA 1ST IN CMA FINAL SEPT 2023 RESULTS

M. SREEKANTH KUMAR
HT NO. 307705

YOU'VE MADE US ALL PROUD!

CONGRATULATIONS TO VAGDHEVA

ALL INDIA 1ST IN CMA INTER SEPT 2023 RESULTS

L. VAGDHEVA
HT NO. 340910

2022 RESULTS

YOU'VE MADE US ALL PROUD!

CONGRATULATIONS TO RISHAB OSTWAL R

ALL INDIA 1ST IN CMA INTER SEPT 2022 RESULTS

RISHAB OSTWAL R
Reg.No. 02211116121

YOU'VE MADE US ALL PROUD!

CONGRATULATIONS TO GOVARDHAN

ALL INDIA 2ND IN CMA FINAL SEPT 2022 RESULTS

K. GOVARDHAN
REG. NO. 02191052508

2021 RESULTS

YOU'VE MADE US ALL PROUD!

CONGRATULATIONS TO NIKHIL KUMAR REDDY

ALL INDIA 1ST IN CMA FINAL MAR 2021 RESULTS

NIKHIL KUMAR REDDY
HT NO. 101338

YOU'VE MADE US ALL PROUD!

CONGRATULATIONS TO PADMA RAJU

ALL INDIA 2ND IN CMA INTER MAR 2021 RESULTS

CH.PADMA RAJU
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54 CA FINAL RANKS IN LAST 6.5 YEARS

TILL FEB 2024

All India 1st Rank — G.N.S.K. PRANEETH — HT NO. 367788

All India 4th Rank — K. VIJAYA LAKSHMI — HT NO. 505454

All India 9th Rank — CH. SAI SUBRAMANYAM — HT NO. 251934

All India 10th Rank — CH. SATYA SAI SUJEETH REDDY — HT NO. 132698

All India 10th Rank — D. GURU BHASKAR REDDY — HT NO. 238169

All India 11th Rank — G. BHARAGAVI — HT NO. 238169

All India 12th Rank — CH. SAI THARUN KUMAR — HT NO. 132829

All India 13th Rank — M. BHANU PRASAD — HT NO. 337928

All India 17th Rank — M. SURYA PRAKASH — HT NO. 790108

All India 19th Rank — B. CHARAN REDDY — HT NO. 148924

All India 20th Rank — B. MANISHA — HT NO. 866863

All India 20th Rank — TRINADH SAHOO — HT NO. 330528

All India 22nd Rank — P. LAKSHMI DEEPIKA — HT NO. 505545

All India 22nd Rank — T. PAVAN KUMAR — HT NO. 146483

All India 25th Rank — K. RAJAVARDHAN REDDY — HT NO. 445436

All India 29th Rank — K. JAGADEESHWAR BABU — HT NO. 338078

All India 30th Rank — K. SAI NAVEEN — HT NO. 171288

All India 31st Rank — N. REVANTH KUMAR — HT NO. 224638

All India 31st Rank — K. B. PRAVEEN TEJ — HT NO. 437541

All India 32nd Rank — B.B. PRATHYUSHA — HT NO. 142951

All India 32nd Rank — P. KUMAR — HT NO. 637974

All India 33rd Rank — M. SUPRAJA — HT NO. 367787

All India 33rd Rank — K. POOJA JAIN — HT NO. 337914

All India 34th Rank — K.N.S.S.SWAROOP — HT NO. 142883

All India 34th Rank — P. RAJESH — HT NO. 637429

All India 36th Rank — J. BIKSHALU BABU — HT NO. 445650

All India 36th Rank — G. NAGA VENKATA SAILESH — HT NO. 209950

All India 36th Rank — I. ETHIHASAN REDDY — HT NO. 437615

All India 38th Rank — J. SHRAVAN REDDY — HT NO. 209771

All India 40th Rank — S. AKHIL NANDAN — HT NO. 427589

All India 40th Rank — V. SAHITHI — HT NO. 177878

All India 41st Rank — B. NEERAJ — HT NO. 275410

All India 41st Rank — E. NIKHIL KUMAR REDDY — HT NO. 204449

All India 42nd Rank — M. MURALI KRISHNA — HT NO. 329960

All India 42nd Rank — M.KALYAN VAMSI — HT NO. 364594

All India 43rd Rank — GOYAL RIYA — HT NO. 427096

All India 44th Rank — P. VIJAYA LAKSHMI — HT NO. 142769

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All India 45th Rank — K. VAISHNAVI — HT NO. 445934

All India 45th Rank — CH. GANGADHAR — HT NO. 225258

All India 46th Rank — P.VIKAS — HT NO. 142398

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All India 48th Rank — YASWANTH — HT NO. 867236

All India 49th Rank — D. VIJAY KUMAR — HT NO. 178610

All India 49th Rank — K. RANJITH — HT NO. 445739

All India 49th Rank — K. MADHURIMA — HT NO. 505525

All India 50th Rank — S. AKHIL KUMAR — HT NO. 803560

9 ALL INDIA 1ST RANKS IN JUST 4 YEARS

(2020,2021, 2022 & 2023) CA & CMA RESULTS

ALL INDIA 1ST RANK

CMA INTER
ALL INDIA 1ST RANKER
SEP 2023 RESULTS

L. VAGDHEVA
H.T. No. 340910

CMA FINAL
ALL INDIA 1ST RANKER
SEP 2023 RESULTS

M. SREEKANTH KUMAR
H.T. No. 307705

CMA INTER
ALL INDIA 1ST RANKER
SEP 2022 RESULTS

RISHAB OSTWAL R
Reg.No. 02211116121

CA INTER (OLD SYLLABUS)
ALL INDIA 1ST RANKER
FEB 2022 RESULTS

CH. YASWANTH
HT NO. 433780

CMA FINAL
ALL INDIA 1ST RANKER
MAR 2021 RESULTS

NIKHIL KUMAR REDDY
HT NO. 101338

CMA FOUNDATION
ALL INDIA 1ST RANKER
DEC 2020 RESULTS

RISHAB OSTWAL R
Reg.No. SF2020065006

CMA FINAL
ALL INDIA 1ST RANKER
FEB 2020 RESULTS

D. GURU BASKAR REDDY
HT NO. 310860

CMA INTER
ALL INDIA 1ST RANKER
FEB 2020 RESULTS

K. DEEPAK JAIN
HT NO. 233277

CA FINAL
ALL INDIA 1ST RANKER
JAN 2020 RESULTS

G.N.S.K. PRANEETH
HT NO. 367788

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CA • CMA • CS • MEC • CEC
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HYDERABAD | VIJAYAWADA | TIRUPATHI

AP : 98851 25025/26
TG : 92487 33361/62