



ASPIRE STUDY KANPUR

MCA Entrance Classes *By Shivam Gupta*

CET MAH MCA – 2017

ORIGINAL PAPER

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- Value of $\frac{\sin x}{\sin x \sec x}$ evaluates identical
(a) $\cot x + 1$ (c) $1 + \cos x$
(b) $\cos x + \cot x$ (d) $\cos^2 x + \cot^2 x$
 - On driving to Delhi to Noida a person will be stopped by each of three policeman who controls the traffic at three different place is 0.60. What is the probability that none of policeman will stop the person?
(a) .04 (b) 0.6
(c) 0.064 (d) 0.4
 - Two events are said to be a complementary if
(a) Joint probability of two events equals to 1
(b) Sum of probability is equals to 1
(c) They are disjoint and probability sums to 1
(d) They are independent events with equal probability
 - Graph of solution to $dy/dx = -x/y$
(a) Straight line (b) Circle
(c) Parabola (d) Hyperbola
 - $A = \{1, 3, 5\}$ $B = \{2, 3\}$, which relation is true
(a) $A \subseteq B$ (b) $A \times B = B \times A$
(c) $B \subseteq A$ (d) $A \times B \neq B \times A$
 - Standard deviation of 3, 5, 2, 7, 8
(a) 3.42 (b) 3.84
(c) 2.84 (d) 4.68
 - Upper part of the tree broken by wind makes an angle of 60° with ground and horizontal distance from root of the tree to the point where the top of the tree meets the ground is 10m. Height of the tree before breaking
(a) 43.20 (b) 20
(c) 39.50 (d) 37.30
 - Length of largest pencil that can be kept in a compass box of $12\text{cm} \times 9\text{cm} \times 8\text{cm}$
(a) 15cm (b) 13cm
(c) 27cm (d) 17cm
 - A square of area $x^2 - 10x + 25$ has perimeter
(a) $4x - 20$ (b) $2x - 10$
(c) $2x$ (d) $4x$
 - Value of x :- $\log_3 [\log_2 (\log_3 x)] = 1$
(a) 5678 (b) 6651
(c) 5768 (d) 6561
 - Length of major axis of ellipse $16x^2 + 5y^2 = 400$
(a) 10 (b) $8\sqrt{5}$ (c) 5 (d) $10\sqrt{5}$
 - Order and degree of differential equation $y'' + y^5 = 2x^3$
(a) Order 2, Degree 1
(b) Order 5, Degree 3
(c) Order 2, Degree 5
(d) Order 2, Degree 3
 - Equation of circle whose centre is at point $(-8, 2)$ and passes through a point $(4, -6)$
(a) $x^2 + y^2 + 8x - 12y - 156 = 0$
(b) $x^2 + y^2 + 8x + 12y - 156 = 0$
(c) $x^2 + y^2 + 16x - 4y - 140 = 0$
(d) $x^2 + y^2 - 16x + 4y - 140 = 0$
 - A is mother of F, F is married to G. K is the only brother of G. R is the father of K. L is married to S. P is only daughter of S. M is the daughter of G. If L is grandfather of M. How L is related to A?
(a) Husband (b) Son
(c) Brother-in-law (d) Wife
 - A is mother of F, F is married to G. K is the only brother of G. R is the father of K. L is married to S. P is only daughter of S. M is the daughter of G. How is F related to S?
(a) Daughter (b) Brother
(c) Daughter-in-law (d) Brother-in-law
 - Solution of differential equation $x + y \frac{dy}{dx} = \sec(x^2 + y^2)$
(a) $\sin(x^2 + y^2) = 2x + C$
(b) $\sec^2(x^2 + y^2) = 2x + C$
(c) $\sec(x^2 + y^2) = 2x + C$
(d) $\cos(x^2 + y^2) = 2x + C$
 - Dinesh made a 90 miles sales trip for the first half of distance he averaged 45 miles per hour for last half he droved at 60 miles per hour. What was the total time in hours for trip?
(a) $1\frac{3}{4}$ (b) $1\frac{1}{2}$ (c) $1\frac{1}{4}$ (d) 2
- (Question 18-20) A, B, C, D, E and F, lives on 6 different floors 1 to 6. Each of the work at different companies. Casio, Vogue, Dell, Puma, IBM, Lakme not necessary in same order. The one who works for Lakme lives on floor-3, only one person lives between A and one who works for Lakme. B lives immediately above E. Neither B nor one who works for Dell lives on floor no.4. The one works for Vogue lives immediately



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- above C. The number of people between C and F is same asw that between the one who works for Vogue and one works for Dell. Only 3 person live between D and one who works for Casio. The one who works Puma does not lives on lowest floor.
18. Which company does E work?
(a) Dell (b) Vogue
(c) Casio (d) Puma
19. Who works for IBM?
(a) B (b) F
(c) C (d) E
20. How many people above F?
(a) 3 (b) 2
(c) 1 (d) none
21. Binary number system has power
(a) 2 (b) 10
(c) 4 (d) 252
22. Symbol for single line comment in C
(a) <!-- (b) !!
(c) # (d) //
23. Refer to the rules and guidelines that should be followed for using software
(a) Utility (b) Procedures
(c) programs (d) Rules
24. Hexadecimal letters A through F are used for decimal equivalent value of
(a) 11 through 17
(b) 10 through 15
(c) 1 through 6
(d) 9 through 14
25. Smallest unit of information of computer can understand and process is
(a) kb (b) digit
(c) bit (d) byte
26. Part of CPU that instruct the bus unit to read unit stored at certain memory address is
(a) Write Back
(b) Decode Unit
(c) Prefetch Unit
(d) Bus Device
27. Left most position with a given binary number
(a) LSB (b) MSB
(c) MSD (d) LSD
28. Multi-Programming of Computer increases
(a) Storage (b) Cost
(c) CPU utilization (d) Memory
29. Real time system are used in programming
(a) Program development
(b) Super Computer
(c) Used in main frame
(d) None of these
30. Unit that transforms input to output
(a) CPU (b) Bus Chip
(c) Ram Chip (d) Motherboard
31. Symbols represents a block of code in
(a) < ---code here>
(b) [---code here]
(c) (---code here)
(d) [---code here)
32. Bytes can represents any number between 0 and ____
(a) 255 (b) 1024
(c) 2 (d) 256
33. In which standard library file of C function printf() is defined
(a) stdlib.h
(b) stdio.h
(c) stdout.h
(d) stdout.h
34. Storage device include all except
(a) RAM (b) Recordable CD
(c) DVD drive (d) Hard drive
35. CPU's ALU contains
(a) Registers
(b) Secandry storage system
(c) RAM space
(d) Byte Space
36. Number of instructions CPU can fetch and process data and instructions in one second?
(a) Frequency rate (b) Cycle rate
(c) Bus rate (d) Clock cycle
37. _____ Chips holds the program (sequence of instructions) and data that CPU is processing
(a) RO (b) Card
(c) Flash (d) RAM
38. Memory that stores date , time and calendear is
(a) Flash memory (b) ROM
(c) CMOS (d) RAM
39. Group of wires that transfers data in system are
(a) System Bus (b) Clock
(c) CMOS (d) BUS
40. Devices that translate data and program that human can understand into from computer can process
(a) Output (b) Input
(c) Tablet (d) Solid State
41. Decimal equivalent of 111110



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- (a) 64 (b) 62
(c) 126 (d) 256
42. Primary use of operating system
(a) Managing Resources
(b) Provide Utilities
(c) Command Resources
(d) Be user friendly
43. Improves Hard disk performance of acting as temporary high speed holding area device and CPU
(a) Defile Decomposition
(b) RAID
(c) Disk Caching
(d) File Compression
44. Correct sequence of Mathematical Operators
(a) Modulus Multiplication Subtraction
(b) Addition Modulus Subtraction
(c) Modulus Multiplication Division
(d) Addition Modulus Division
45. Group of wires that transfers data in system are
(a) System Bus (b) Clock Speed
(c) CMOS (d) Bus
46. Word similar to – CRACK
(a) Broken (b) Split
(c) Sound (d) Lucid

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