

Register No:



KUMARAGURU
college of technology
character is life

B.E/B.TECH DEGREE EXAMINATIONS: MAY 2018

(Regulation 2015)

Sixth Semester

U15MAOE03/ P15MAOE03: VEDIC MATHEMATICS

(Common to all Branches)

Time: Two Hours

Maximum Marks: 100

Answer all the Questions

PART A (20 x 1 = 20 Marks)

- 1 Find the square of 83
- 2 Find $10000-76$
- 3 Find 122×128
- 4 Find $1/39$
- 5 Find square of 113
- 6 Find $100-55.398$
- 7 Find the digit sum of the number 67548074433
- 8 Multiply 421 by 13
- 9 Find the complement of 4356.
- 10 Add : $756+67+124 +243$
- 11 Multiply 1844 x 12
- 12 Find the cube root of 636056
- 13 Add: $54365+23456 +34587$
- 14 Verify whether 4736982 is divisible by 3 and 9.
- 15 Subtract : $3342 - 2852$
- 16 Find 10012×10076
- 17 Find square root of 7569
- 18 What number should be added or subtracted from 537629, so that the number is divisible by 9.
- 19 Find 87465×11
- 20 Add: $643762 + 346976$

Answer all the Questions
PART B (25 x 2 = 50 Marks)

- 21 Find the cube of 109
- 22 Find 9997×99.93
- 23 Divide 69879 by 87
- 24 A total land of 887406 sq. ft. is to be distributed among 93 people. How much area would each person get?
- 25 Factorize $3x^2 - 8xy + 4y^2 + 4y - 3$
- 26 If the marked price of an article is Rs. 3154 and discount of 34% is given on it, what is the selling price?
- 27 Find the area of the circle with radius 65.
- 28 Find the total surface area of the cube whose volume is 17576 cm^3 .
- 29 Find the cube of 9996.
- 30 Find quotient and remainder when 16743 is divided by 111.
- 31 Multiply: (i) 37×99 (ii) 6543×999
- 32 Convert $\frac{5}{41}$ into its decimal form.
- 33 Divide 5934 by 96
- 34 Convert the fraction $\frac{4}{17}$ to its decimal form.
- 35 Find 32456×31111
- 36 Find the zeros of $12x^2 - 23x + 10$
- 37 Find the area of square field with each side 76m.
- 38 Find the volume of a cube with side 47 cm.
- 39 Multiply 111114×111113
- 40 Find (i) 32419×11 (ii) 56789×12
- 41 Find the perimeter of square garden with area 8464 sq m.
- 42 Factorize $3x^2 + 4y^2 + 6z^2 + 7xy + 14yz + 11zx$
- 43 Find 24569×1111
- 44 (i) Add: $8738798 + 7582104$ (ii) Find $50000 - 567.34$
- 45 Find (i) 254×248 (ii) 467×511

Answer all the Questions

PART C (10 x 3 = 30 Marks)

- 46 (i) Find cube of 97 (ii) Find the roots of $15x^2 - 14x - 8 = 0$.
- 47 Find (i) 77×9988 (ii) $6887 \times$
- 48 Factorize $3x^2 + 2y^2 + 6z^2 + 11xz + 7yz + 7xy + 14x + 8y + 14z + 8$
- 49 7105A plane travels at a speed of 6856 miles per hour. How far will it travel in 53 hours?
- 50 (i) Find the largest 8 digit number which is exactly divisible by 10012.
(ii) Multiply : 317456×99999999
- 51 Find (i) 563763×12 (ii) 136×134 (iii) 45876529×111
- 52 Multiply the following: (i) 999997×879655 (ii) 1189×99999999
- 53 Find the area of a rectangle with sides 123415 m and 98654 m.
- 54 Which is the greatest 9 digit number, which is a perfect cube?
- 55 Find the length of the side of a cube whose volume is equal to the area of a rectangle with length and breadth as 344 cm and 1849 cm.
