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(b) Given the cast prior and selling prior, the

10. Explain the derivation of the formulae for deriver the area of a percellelogram draperium and iniciale

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B.Ed. DEGREE EXAMINATION - JANUARY, 2006.

First Year

(For AY-2004-05 batch candidates)

TEACHING OF MATHEMATICS

Time : 3 hours

Maximum marks: 75

ES-342

PART A — $(2 \times 15 = 30 \text{ marks})$

Answer any TWO questions not exceeding 750 words each.

1. Give the meaning of mathematics and discuss its nature with reference to its growth, application, logic and axioms.

2. Explain how a mathematics teacher can introduce effectively and give illustrations for Number Systems.

3. Explain with examples the construction of triangles, given

(a) three sides (S.S.S)

(b) two sides and included angle (SAS)

(c) two angles and one side (ASA).

http://www.howtoexam.com

PART B — $(5 \times 6 = 30 \text{ marks})$

Answer any FIVE questions not exceeding 300 words each.

4. Explain factorization of $ax^2 + bx + c$ by the method of splitting the middle term.

5. Explain how to solve the system of linear equations ax + by = c and dx + ey = f through

(a) the method of elimination and

(b) by using determinants.

6. Explain the importance and effectiveness of problem solving approach in teaching mathematics.

7. What is the significant role of evaluation in teaching-learning process of mathematics?

8. Describe with illustration how 'Relations' are represented as

2

- (a) Set of ordered pairs
- (b) Graph and
- (c) Venn diagram.

9. Write an algorithm and draw the flow char the following problems

(a) Find the nature of the roots $ax^2 + bx + c = 0$

(b) Given the cost price and selling price the gain/loss.

10. Explain the derivation of the formulae for den the area of a parallelogram, trapezium and triangle

11. Explain how to derive the Trigonometric rat the angles 30°, 60° and 90°.

PART C — $(5 \times 3 = 15 \text{ marks})$

Answer ALL questions not exceeding 150 words ϵ

12. Prove that $\log a \times b = \log a + \log b$ for any bas

13. Find the L.C.M and H.C.F. of 180 and 270 th division method.

14. Give a formula for finding Pythagorean ta and find three Pythagorean triplets using the form

15. Factorise $x^3 + 6x^2 + 11x + 6$ using rem theorem.

16. Construct a problem that may be solved usi set identity $n(A \cup B) = n(A) + n(B) - n(A \cap B)$ an its solution.

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