

# MATHEMATICS

2007

Time: 3 hours

Max. Marks: 100

Note: Attempt Ten questions in all, selecting Five questions from Section 'A', Three questions from Section 'B' and One question from Section 'C' and the objective question No.1.

## OBJECTIVE (COMPULSORY)

- 1.(a) Fill in the following blanks with the correct answers:-
- (i) If a relation is given by  $R = \{(0,1), (1,2), (3,4)\}$ , then the range of R is  $\{1,2,4\}$ .
  - (ii) If  $\log_8 x = -\frac{3}{4}$ , then  $x = \frac{1}{27}$
  - (iii) The variance is the of square the standard deviation.
  - (iv) The additive inverse of  $\frac{1}{-a-b}$  is  $\frac{1}{a+b}$
  - (v)  $\frac{9}{4}$  should be added to  $a^2 - 3a$  to make it a perfect square
- 1.(b) Select the correct answer for each from the options given within brackets:
- (i)  $\left[ -(-1)^5 \right]^2 = \text{-----}$ . (1, -1, 2)
  - (ii) The angle inscribed in a major arc is a/an ----- angle. (acute, right, obtuse)
  - (iii)  $\operatorname{Cosec} 60^\circ = \frac{2}{\sqrt{3}} \cdot \left( \sqrt{3}, \frac{2}{\sqrt{3}}, \frac{1}{2} \right)$
  - (iv) The L.C.M. of  $4x^2$  and  $5x$  is -----. ( $4x^2$ ,  $5x$ ,  $20x^2$ )
  - (v) If the number of rows and columns is not equal, it is called a ----- matrix. (square, null, rectangular)

## SECTION 'A'

- 2.(a) If  $A = a, b, c$ , find  $p(A)$ . (05)
- 2.(b) If  $U = \{x \mid x \in N, x \leq 12\}$ ,  $A = \{2, 4, 6, 8, 10, 12\}$ ,  $B = \{3, 6, 9, 12\}$ , Prove that  $(A \cap B) = A \cup B$ . (05)
- 3.(a) If  $x = 2 + \sqrt{3}$ , find the value of  $x + 1/x$ . (05)
- 3.(b) Find the value of  $a^2 + b^2$  when  $a + b = 7$  and  $ab = 12$ . (05)
4. Factorize any four of the following:- (10)
- (i)  $12x^2 + 5x - 2$
  - (ii)  $x^4 + 64$
  - (iii)  $x^2 - yz + xy - xz$
  - (iv)  $x^3 - x^2 + 2$
  - (v)  $1 + 2ab - (a^2 + b^2)$
  - (vi)  $x^3 - 8y^3 + 1 + 6xy$
- 5.(a) If  $4x^4 + 12x^3 + 21x^2 + ax + 9$  is a perfect square, find the value of 'a'. (05+05)

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**Sebastian Brünink**



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Nuclear Chemistry - Lake Central High School Jul 12, 2015 — What is the change in atomic number after the alpha decay? It decreases by 2. b. ... answer the following questions. **Nuclear** ... 25.2 Nuclear Transformations | Lecture notes Chemistry These nuclei decay by turning a neutron into a proton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208  $^{208}_{87}\text{Fr} \rightarrow$  b ...