

# Gokhale Institute of Politics and Economics

(Deemed to be University u/s 3 of the UGC Act, 1956)

Pune – 411 004

## Entrance Examination for Masters Programme

### Section A

- Q. 1 The power set of  $S = \{a, b, c\}$  is given by
- A.  $P = \{\}$
  - B.  $P = \{a, b, c, ab, ac, bc, abc\}$
  - C.  $P = \{\{a, b, c\}, \{a\}, \{b\}, \{c\}, \{a, b\}, \{a, c\}, \{b, c\}, \phi\}$
  - D.  $P = \{\{a, b, c\}, \{a\}, \{b\}, \{c\}, \{a, b\}, \{a, c\}, \{b, c\}, \{\phi\}\}$
- Q. 2 The sum of the first six terms of a Geometric Progression is nine times the sum of first three terms, then the common ratio is
- A. 2                                      B.3                                      C.4                                      D.5
- Q. 3 Rank of matrix  $A = \begin{bmatrix} -3 & 6 & 2 \\ 1 & 5 & 4 \\ 4 & -8 & 2 \end{bmatrix}$
- A. Information provided is insufficient
  - B. 2
  - C. 1
  - D. 3

### Section B

- Q. 1 Pointing to a man in a photograph, a woman said “His brother’s father is the only son of my grandfather”. How is the woman related to the man in the photograph?
- A. Mother                                      B. Aunt                                      C. Sister                                      D. Daughter
- Q. 2 Find the wrong number in the series 7, 28, 63, 124, 215, 342
- A. 7                                      B. 28                                      C.124                                      D. 215
- Q. 3 If 100 cats catch 100 mice in 100 minutes, then how long will it take for 7 cats to catch 7 mice?
- A.  $100/7$  minutes
  - B.  $49/100$  minutes
  - C. 100 minutes
  - D. 7 minutes

## Section C

- Q. 1 The value of the slope of a production isoquant is equal to the
- A. Ratio of the prices of the two inputs
  - B. Amount of one input used divided by the amount of the other input
  - C. Ratio of the marginal utilities of the two inputs
  - D. Ratio of the marginal products of the two inputs
- Q. 2 Two soft-drink firms, Fizzle & Sizzle, operate on a river. Fizzle is farther upstream, and gets cleaner water, so its cost of purifying water for use in the soft drinks is lower than Sizzle's by Rs. 5, 00,000 yearly. According to this scenario, Fizzle and Sizzle
- A. would be perfectly competitive if their purification costs were equal; otherwise, not.
  - B. would be perfectly competitive if it costs Fizzle \$500,000 yearly to keep that land.
  - C. may or may not be perfect competitors, but their position on the river has nothing to do with it.
  - D. cannot be perfect competitors because they are not identical firms.
- Q. 3 The Natural Rate of Unemployment is
- A. The rate at which workers will choose
  - B. The rate that is over and above other types of unemployment
  - C. The rate that will prevail when government budget is balanced
  - D. The rate that will prevail when the labour market is in equilibrium

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