

# Mechanical Engineering - 2006

## Full Paper

1. Match the items in columns I and II.

	Column I		Column II
P	Gauss-Seidel method	1	Interpolation
Q	Forward Newton-Gauss method	2	Non-linear differential equations
R	Runge-Kutta method	3	Numerical integration
S	Trapezoidal Rule	4	Linear algebraic equations

- 1) P-1, Q-4, R-3, S-2
- 2) P-1, Q-4, R-2, S-3
- 3) P-1, Q-3, R-2, S-4
- 4) P-4, Q-1, R-2, S-3

2. The solution of the differential equation

$(dy/dx) + 2xy = e^{-x^2}$  with  $y(0) = 1$  is

- 1)  $(1 + x) e^{-x^2}$
- 2)  $(1 + x) e^{-x^2}$
- 3)  $(1 - x) e^{-x^2}$
- 4)  $(1 - x) e^{x^2}$

3. Let  $x$  denote a real number. Find out the INCORRECT statement.

- 1)  $S = \{x : x > 3\}$  represents the set of all real numbers greater than 3
- 2)  $S = \{x : x^2 < 0\}$  represents the empty set
- 3)  $S = \{x : x \in A \text{ and } x \in B\}$  represents the union of set A and set B
- 4)  $S = \{x : a < x < b\}$  represents the set of all real numbers between  $a$  and  $b$ , where  $a$  and  $b$  are real numbers

4. A box contains 20 defective items and 80 non-defective items. If two items are selected at random without replacement, what will be the probability that both items are defective?

- 1) 1/5
- 2) 1/25
- 3) 20/99
- 4) 19/495

5. For a circular shaft of diameter  $d$  subjected to torque  $T$ , the maximum value of the shear stress is

# Mechanical Engineering Past Paper

**Patrick Vollmar**



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