

16. Suman and Nikita are studying about application of derivative and integration in a class. They ask each other the quiz questions as given below. On the basis of these questions answer the following.
- (a) $f'(x)$ and $g'(x)$ are derivatives of the functions $f(x)$ and $g(x)$. What is the expression equal to $\lim_{x \rightarrow a} \frac{f(x)}{g(x)}$ according to L'Hospital's rule for form ∞/∞ . 1
- (b) State Rolle's Theorem. 1
- (c) What is the expression equal to $\int \frac{1}{x^2 + a^2} dx$? 1
- (d) What does 'C' represent in the expression $\int \frac{dx}{3 \sin x + 4 \cos x} = \frac{1}{5} \ln \left| \tan \left(\frac{x}{2} + \frac{1}{2} \tan^{-1} \frac{4}{3} \right) \right| + C$? 1
- (e) Write a difference between derivative and antiderivative? 1
17. Integrate $\int \frac{1}{x^4 - 1} dx$ using the concept of partial fraction. Also give an example of proper rational fraction and improper rational fraction. 3 + 2
18. Use simplex method and maximize: $Z(x, y) = x + y$ subject to constraints $2x + 3y \geq 22$, $2x + y \geq 14$, $x \geq 0, y \geq 0$. 5
19. Write any one difference between like parallel forces and unlike parallel forces. A heavy uniform beam whose mass is 60 kg is suspended in a horizontal position by two vertical strings each of which can sustain a tension of 52.5 kg wt. How far from the centre of the beam must a body of mass 30 kg placed so that one of the strings may just break? 1 + 4
- OR
- If the demand function $P = 85 - 4Q - Q^2$, find the consumer's surplus at demand 4 units and price 64 units. Also make a revenue function for demand equation $P = 20 + 5Q - Q^2$. Obtain the standard quadratic equation for marginal revenue. Q represents the number of units demands and P represent the price. 2 + 1 + 1 + 1
- Group 'C'** [8 × 3 = 24]
20. A mixture is to be made of three foods, A, B and C which contain nutrients P, Q, R as shown in the table below. The quantity of P, Q, R is 45 units, 54 units and 45 units respectively.
- | Food | Units of nutrients per kg of the foods | | |
|------|--|---|---|
| | P | Q | R |
| A | 2 | 2 | 4 |
| B | 3 | 5 | 0 |
| C | 4 | 3 | 5 |
- (a) Express the information in equation form. 1
- (b) Solve the equations using matrix. 5
- (c) If the cost per kg of the foods A, B, C are Rs. 300, Rs. 240 and Rs. 180 respectively, find the total cost of the mixture by matrix method. 2
21. A line makes an angle $\alpha, \beta, \gamma, \delta$ with the four diagonals of a cube kept in a dining room.
- (a) Find the direction ratios of any two diagonals of the cube and express the diagonals in vector form. 3
- (b) Find the angle between the any two diagonals of the cube. 2
- (c) Prove that $\cos^2 \alpha + \cos^2 \beta + \cos^2 \gamma + \cos^2 \delta = \frac{4}{3}$. 3
22. A college hostel accommodating 1000 students; one of them came from abroad with infection of corona virus, then the hostel was isolated. If the rate at which the virus spreads is assumed to be proportional to the product of the number 'N' of infected students and number of non-infected students and the number of infected students is 50 after 4 days.
- (a) Express the above information in the form of differential equation. 2
- (b) Solve the differential equation. 2
- (c) Show that more than 95% students will be infected after 10 days. 4

Question Voctional Math 2013

Hussin A.Rothana



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