

Council for Technical Education and Vocational Training  
Office of the Controller of Examinations  
Savitribi, Bhamburda  
Regular/Back Exam 2019, Patipundi/Chennai

Program: Diploma in Civil Hydraulics/Health  
Computer Engineering  
Year/Part: III (New Course)  
Subject: Engineering Mathematics III

Full Marks: 80  
Pass Marks: 32  
Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group 'A'  
Attempt All Questions

1. (a) Define trigonometric and Fourier series. Determine the Fourier coefficient an by Euler's Formula. (1+1+2)
- (b) Find the Fourier series of the function (4)  

$$f(x) = \begin{cases} 0 & 0 < x \leq \pi \\ x & \pi < x < 2\pi \end{cases}$$
2. (a) Define a group. In a group, prove that  $(a \cdot b)^{-1} = b^{-1} \cdot a^{-1}$ . Also prove that inverse of each element of a group is unique. (4)
- (b) Given a set  $G = \{1, 2, 3, 4\}$  and a binary operation addition modulo 5 ( $\oplus_5$ ) is defined on  $G$ . Prepare Cayley's table for  $\oplus_5$ . Find the identity and inverse element of 3 and 4. (4)
3. (a) By using definition of partial derivatives find  $F_x$  and  $F_y$  for  $F(x, y) = x^2y - xy^2$ . (4)
- (b) If  $z = \sqrt{x^2 + y^2 + z^2}$  then prove that  $\frac{\partial^2 z}{\partial x^2} + \frac{\partial^2 z}{\partial y^2} + \frac{\partial^2 z}{\partial z^2} = \frac{1}{z}$ . (4)

# CTEVT Diploma 2019 Question Paper of Mathematics III 3rd Semester

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**Lauren Gardner**



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