

**I B. Tech I Semester Regular Examinations, July/August-2021**  
**MATHEMATICS-I**  
 (Com. to All Branches)

Time: 3 hours

Max. Marks: 70

**Answer any five Questions one Question from Each Unit**  
**All Questions Carry Equal Marks**

1. a) Examine the convergence of  $\sum \frac{[(n+1)!]^2 x^{n+1}}{n}$ ,  $(x > 0)$  (7M)  
 b) Find Maclaurin's series expansion of the  $f(x, y) = \sin^2 x$  and hence find the approximate value of  $\sin^2 16^\circ$ . (7M)
- Or**
2. a) Prove using mean value theorem  $|\sin u - \sin v| \leq |u - v|$ . (7M)  
 b) Examine the convergence of  $x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} + \dots (x > 0)$ . (7M)
3. a) Solve  $(x + 2y^3) \frac{dy}{dx} = y$ . (7M)  
 b) Solve  $(5x^4 + 3x^2y^2 - 2xy^3)dx + (2x^3y - 3x^2y^2 - 5y^4)dy = 0$  (7M)
- Or**
4. a) Find the orthogonal trajectories of  $r^2 = a \sin 2\theta$ . (7M)  
 b) Solve  $(xysinx + \cos xy) ydx + (xysinx - \cos xy) xdy = 0$ . (7M)
5. a) Solve  $(D^2 - D)y = 2x + 1 + 4\cos x + 2e^x$  (7M)  
 b) In an L-C-R circuit, the charge  $q$  on a plate of a condenser is given by (7M)

6. a) Find  $\int \frac{1}{x^2 + 1} dx$  (7M)  
 b) Find  $\int \frac{1}{x^2 + 4} dx$  (7M)
7. a) Find  $\int \frac{1}{x^2 + 1} dx$  (7M)  
 b) Find  $\int \frac{1}{x^2 + 4} dx$  (7M)

# Mathematics Question Paper March 2grade1

**Padhraic Smyth**



## Mathematics Question Paper March 2grade1:

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