



W1-2-60-1-6

**JOMO KENYATTA UNIVERSITY  
OF  
AGRICULTURE AND TECHNOLOGY**

**University Examinations 2019/2020**

**THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF  
BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING,  
TELECOMMUNICATION ENGINEERING AND MARINE ENGINEERING  
SMA 2371 : PARTIAL DIFFERENTIAL EQUATIONS**

**DATE: FEBRUARY, 2020**

**TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS**

**QUESTION ONE-30 MARKS-COMPUSORY**

- a) Define a P.D.E. and hence form a partial differential equation arising from  $z = (x^2 + a^2)(y^2 + b^2)$  where  $a$  and  $b$  are arbitrary constants (4 Marks)
- b) Define general and complete integrals of a partial differential equation. (2 Marks)
- c) Find the complete integral of the partial differential equation  $z = px + qy + p^2 + q^2$ . (3 Marks)
- d) Determine the Laplace transform of the Partial derivative  $\frac{\partial U(x,t)}{\partial t}$ . (3 Marks)
- e) Solve the Lagrange equation  $\frac{y^2 z}{x} p + xzq = y^2$ . (5 Marks)
- f) Show that the direction cosines of the tangent at point  $p(x, y, z)$  to the conic  $ax^2 + by^2 + cz^2 = 1$  and  $x + y + z = 1$  are proportional to  $(by - cz, cz - ax, ax - by)$ . (5 Marks)
- g) Solve the partial differential equation  $3 \frac{\partial u}{\partial x} + 2 \frac{\partial u}{\partial y} = 0$  for  $u(x,0) = 4e^{-x}$  using the method of separation of variables. (5 Marks)
- h) Show that the equation  $(x+z)dx + x^2 y dy + (x^2 y - x)dz = 0$ , is integrable. (3 Marks)

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