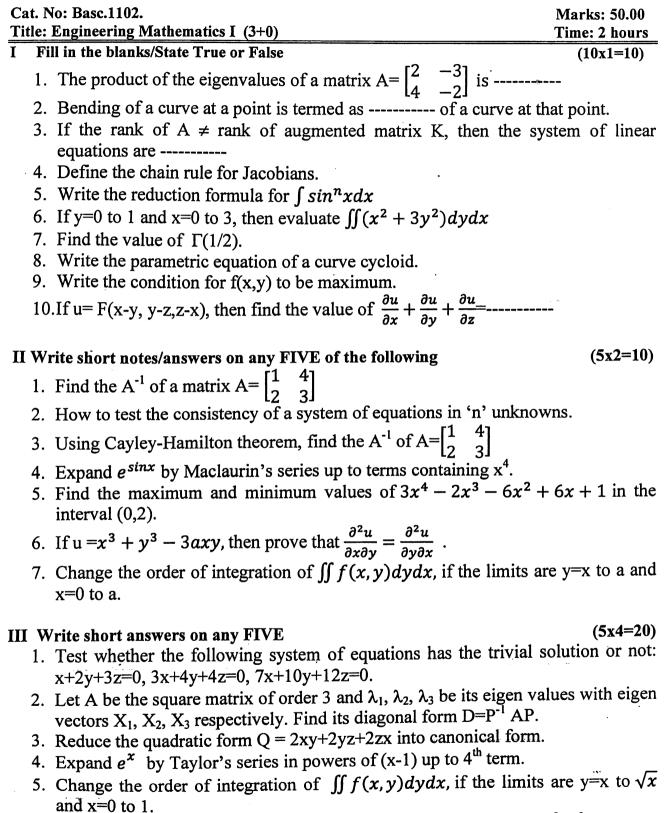
KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food.Engg.) 2016 Admission

Ist Semester Final Examination-February-2017



6. Find the radius of curvature at the point (3a/2, 3a/2) of the Folium $x^3+y^3=3axy$.

- 7. Verify Euler's theorem for $u = x^2yz 4y^2z^2 + 2xz^3$.
- IV Write essay on any ONE
 - 1. Reduce the quadratic form $Q=2x^2+2y^2+2z^2-2zx$ into canonical from by orthogonal transformation. (1x10=10)
 - 2. Change the order of integration and evaluate $\iint xydxdy$, if the limits are y=0 to 1 and x=x² to (2-x).

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