

$$T = 2\pi a^{3/2} / \sqrt{G(M+m)}$$

where  $a$  is the semi-major axis,  $M$  is the mass of the sun and  $m$  that of the planet. 10

- (b) State and prove Kepler's second law of planetary motion. 6

5. (a) Discuss how a two-body central force problem reduced into an equivalent one-body problem ? Hence explain the concept of reduced mass. Give its two examples. 10

- (b) Find the condition for closure and stability of circular orbit moving under the influence of a central force field with potential

$$V(r) = k r^{n+1}. \quad 6$$

### Unit-III

6. Explain modified Hamilton's principle. Deduce Hamilton's equations of motion by using this principle. 16

[P.T.O.]

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**M. Fliess**



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