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Roll No

MVSE-205**M.E./M.Tech. II Semester**

Examination, June 2017

Theory of Plates and Shells**Time : Three Hours****Maximum Marks : 70**

- Note :** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Explain pure bending of plates.
b) Explain differential equations of equilibrium.
2. a) Explain moment curvature relationship.
b) Write a note on theory of small deflection with laterally load plates.
3. a) Write a brief note on naviers solution.
b) Explain levy solution.
4. a) Explain symmetrical bending of circular plates.
b) Explain strain energy methods.

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5. a) Write a brief note on classification of shells.
b) Explain Gaussian curvature.

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6. a) Explain member theory of cylindrical shells.
b) Explain binding theory of cylindrical shells.
7. a) Explain Fourier loading.
b) Explain Hyperbolic-parabolic shells.
8. a) Explain funicular shells.
b) Explain spherical shells.

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