

GUJARAT TECHNOLOGICAL UNIVERSITY**B.E. SEMESTER- III EXAMINATION – WINTER 2014****Subject Code: 2130003****Date: 26/12/2014****Subject Name: Mechanics of Solids****Time: 02.30p.m. – 05.00p.m.****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Draw neat and clean sketches, wherever required.

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|------------|-----|--|-----------|
| Q.1 | (a) | Enumerate various types of supports with neat symbolic sketches, showing possible reactions. | 03 |
| | (b) | Define (i) Poisson's ratio (ii) Volumetric Strain (iii) Modulus of rigidity (iv) Bulk modulus | 04 |
| | (c) | A cast iron water pipe of 500 mm inside diameter and 20 mm thick, is supported over a span of 10 meters. Find the maximum bending stress in the pipe metal, when the pipe is running full. Take density of cast iron = 70.6 kN/m^3 and water = 9.8 kN/m^3 . | 07 |
| Q.2 | (a) | State "Law of parallelogram of forces". Determine magnitude and direction of the resultant of the two forces shown in fig. (i) | 07 |
| | (b) | State pappus –Guldinus theorems. Using these theorems derive the formula for surface area (A) and volume (V) for sphere of radius 'r'. | 07 |
| | | OR | |
| | (b) | Derive relation between the rate of loading, shear force and bending moment with usual notations. | 07 |
| Q.3 | (a) | A stepped circular bar ABCD is axially loaded as shown in fig. (ii) is in equilibrium. Find unknown force P, and calculate stresses in each part and total change in length of the bar. Take $E_{\text{copper}} = 100 \text{ GPa}$, $E_{\text{brass}} = 80 \text{ GPa}$ and $E_{\text{steel}} = 200 \text{ GPa}$. | 07 |
| | (b) | For an element shown in fig. (iii), find (i) principal stresses and location of corresponding principal planes (ii) Maximum shear stress and location of planes containing it. | 07 |
| | | OR | |
| Q.3 | (a) | Determine the resultant of the forces 100 N, 200 N, 300 N, 400 N and 500 N are acting on one of the vertex of a regular hexagon, towards the other vertices, taken in order as shown in fig. (iv). | 07 |
| | (b) | A ladder AB is 4.5 m long and 450 N weight, rests on a rough horizontal floor at end B and vertical wall at A, making 60° with horizontal. The coefficient of static friction is 0.4 for all contact surfaces. A man of 800 N weight climbs on the ladder. Determine the minimum distance travelled on the ladder, when it is on the verge of slipping. | 07 |
| Q.4 | (a) | A beam is loaded as shown in fig. (v). Calculate shear force and bending moment at points A, B, C, D and E and draw shear force and bending moment diagrams. Also find point of contraflexure. | 07 |
| | (b) | A short concrete column 450mm x 450mm in section is axially loaded to 500 kN. The column is strengthened by four, 16mm diameter steel bars each one at corner. Calculate stresses in concrete and steel. Take $E_c = 14 \text{ GPa}$ and $E_s = 210 \text{ GPa}$ | 07 |
| | | OR | |
| Q.4 | (a) | A T – shaped cross section of a beam has flange = 200 x 50 mm and web = 50 x 200 mm in size, is subjected to a vertical shear force of 100 kN. Calculate the | 07 |

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