Week 6: Assignment 2

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2021-09-08, 23:59 IST.

**Mechanical Assignment**

1) To stop swelling, retention plates are required in:
   - a) Cylindrical Cell  
   - b) Prismatic cell  
   - c) Pouch cell 

   - Only a
   - Only c
   - Both b and c
   - All a, b, and c

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Both b and c

For the below battery pack, End plates and Side strips are required to be designed. Material selected for this purpose is Aluminum 6061 T6.

![End Plate Diagram]

**Picture 1**

The dimensions of Endplate are 138mmx128mmx32mm. Pressure applied (p) on it is 0.14N/mm² and boundary conditions are as defined in the picture 2. Calculate the stress generated at (x = 0, z = b) of End plate in Mpa.

2) Stress generated is __________ Mpa

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   (Type: Range) 100, 130

3) 4 Battery packs of mass 10Kg, 15Kg, 20Kg and 25Kg, having overall stiffness of 12.5N/m, 18N/m, 15N/m and 45N/m respectively. The pack with least natural frequency is:

   - a) Pack 1
   - b) Pack 2
   - c) Pack 3
   - d) Pack 4

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   (Type: Range) 0.125, 0.180, 0.150, 0.450

2) Stress generated is __________ Mpa

   No, the answer is incorrect.