

EMD I en Anglais technique + Corrections

Question 1:

✓ Give the appropriate title to each definition:

Title 1 : are the external forces acting on a structure. : *Loads* ✓ (1)

Title 2 : are the internal forces that resist the external forces. : *Stresses* ✓ (1)

Title 3 : the relationship (σ - ϵ) may be written as $\sigma = E\epsilon$. : *Hooke's Law* ✓ (1)

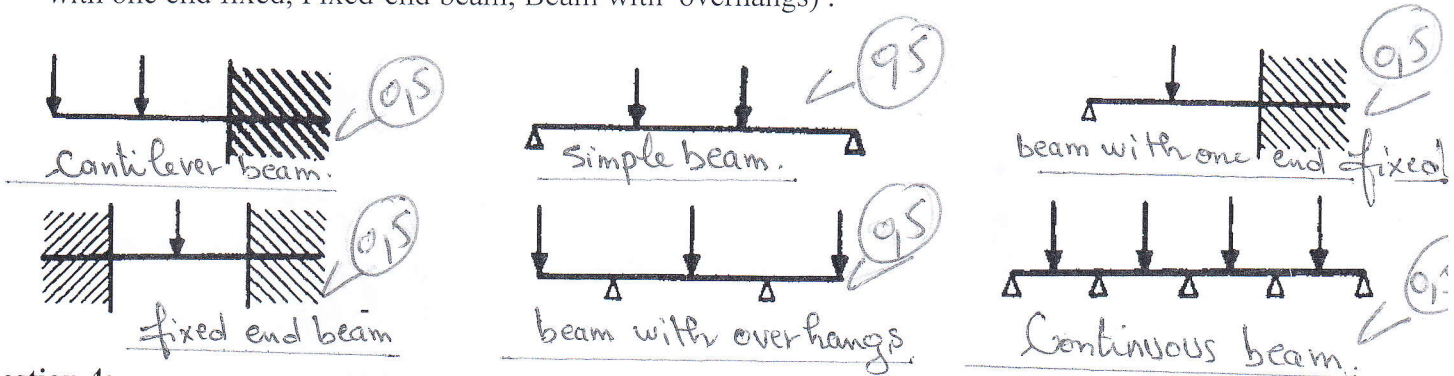
Question 2:

Building codes classify loads in accordance with the nature of the source :

✓ Give three examples of these loads. : *wind loads, Snow loads, Seismic loads* ✓ (1)

Question 3:

✓ Choose the appropriate title for each type of beam: (Simple beam, Continuous beam, Cantilever beam, Beam with one end fixed, Fixed-end beam, Beam with overhangs).



Question 4:

✓ Draw the appropriate shape for each type of foundation:

(Individual spread footing, wall footing, raft footing, pile foundation.)

Question 5:

✓ Give the appropriate use of each type of geosynthetics:

Geosynthetics	The appropriate use
Geogrids <i>pavements</i>	Reinforcement, Erosion Control, Stabilisation
Geotextiles	drainage, Reinforcement, Erosion Control, separation, filtration
Geomembranes	drainage (Reduce water migration).

Question 6:

✓ What are the basic components of concrete? : *Cement, aggregates (fine and coarse), Water.* ✓ (1)

Good luck

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