SYMBIOSIS INTERNAITONAL (DEEMED UNIVERSITY) Ph D ENTRANCE TEST

The Sample questions of Mechanical Engineering

Question No	Question Text	Option1	Option2	Option3	Option4	Correct Option
Q1.	Which of the following can be regarded as gas so that gas laws could be applicable, within the commonly encountered temperature limits?	O2, N2, Steam, C02	Oz, N2, Water Vapour	SO2, NH3, C02, moisture	O2, N2, H2, air	Option 4
Q2.	Which theory of failure is used for ductile materials?	Maximum normal stress theory	Maximum distortion energy theory	Maximum shear stress theory	Mohr theory	Option2
Q3.	At very high pressure, an ideal gas occupiesas compared to a real gas	More volume	Less volume	Same volume	Unpredictable behaviour	Option1
Q4.	Ratio of a force required to bend a hollow cylinder and force required to bend a solid cylinder of same outer diameter and length will be	Less than	Greater than 1	Equal to 1	Insufficient data	Option 2
Q5.	A compressor can have high Isothermal compression efficiency if the compressor runs at	Average speed	Very slow speed	Very high speed	Zero speed	Option2