Placement Papers: Crompton Paper 12 Jun 2005 Hyderabad

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SECTION I: TECHNICAL 50 QUESTIONS 30 MINS

1. Magnetic compass indicates

    a. true north pole

    b. alionic earth pole

    c. geographic north pole

    d. magnetic north pole.

2. For a cantilever beam with uniformly varying load, shape of bending moment curve is

    a. parabolic

    b. hyperbolic

    c. straightline

    d. cubic.

3. For perfectly elastic bodies, coeffecient of restitution is

    a. 0

    b. 0.5

    c. 1

    d. infinity.

4. For 1st order lever, mechanical advantage is

    a. < 1

    b. > 1

    c. = 1

    d. none.

5. 18: 4: 1 in H. S. S represent-18tu: 4vn: 1 cr. Other choices r just iin s represent nterchanged.

6. Due to intense braking of an automobile reaction of wheels on road Will be equally distributed to all 4 wheels. Will be more at rear wheels Inertia will be on the front wheels. Not remember. If u apply brakes on the weels of a bicycle then

    a. normal reaction on the wheel increases

    b. normal reaction on the wheel decreases

c. normal reaction remains same as there is no radial component of frictional force

7. thermal efiiciency of I. C engines will be

    a. 20 – 25%

    b. 30 – 35%

    c. 60 – 75%

    d. 45 – 55% .

8. when a mass is supportedby spring of spring constant k, which is cut in 4 equal pieces and the connected in parallel way the equilent spring constant is

    a. k/4

    b. 16k

    c. 64k

    d. k.

9. when a mass is supported on roof of a elevator and elevator moves with an acceleration of 4.9 m/s2 shows a spring reading of 15kg, then the weight of the body is

    a. 10

    b. 15

    c. 30

    d. 20.