

2. Attempt any **THREE** of the following : **12**
- (a) Explain steps involved in general design procedure.
 - (b) Draw neat sketch of knuckle joint & state its strength equation (any four).
 - (c) Prove that for a square key crushing stress is twice of shearing stress.
 - (d) State the strength equations of double parallel fillet weld and single transverse fillet weld with neat sketches.
3. Attempt any **THREE** of the following : **12**
- (a) Sketch S-N curve & explain the term endurance limit.
 - (b) Two steel plates 10 cm wide & 1.25 cm thick are to be connected together by double transverse fillet weld. For static & dynamic loading, take stress concentration factor 1.5 and tensile stress as 7000 N/cm^2 , find the length of weld.
 - (c) The spring of spring balance elongates by 150 mm, when subjected to load of 400 N. The spring index is 6. Take permissible shear stress for the spring material as 540 N/mm^2 . Consider the effect of direct shear & wire curvature. Take $G = 8.4 \times 10^4 \text{ N/mm}^2$.
 - (d) State the following material specifications :
 - (i) FeF230
 - (ii) FG200
 - (iii) 35C8
 - (iv) 10C8510
 - (e) Write strength equations for design of screw spindle of toggle jack.
4. Attempt any **TWO** of the following : **12**
- (a) Define stress concentration. List any four methods to reduce it with neat sketches.
 - (b) Draw a neat sketch of turn buckle. Explain its design procedure.
 - (c) A shaft is required to transmit 1 MW power at 240 rpm. The shaft must not twist more than 1° on a length of one metre. If the modulus of rigidity for the material of the shaft is 80 kN/mm^2 , find diameter of shaft and shear stress induced in it.

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Mechanical Engineer William Henry Fowler,1912 *Mechanical Engineering* American Society of Mechanical
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