1. Stress invariant depends upon frame of reference.   (True/False)

2. If three principal stresses are unequal then principal planes will be distinct and mutually perpendicular.   (True/ False)

3. Decompose the given stress tensor into hydrostatic and pure shear tensor.

$$\begin{matrix} 2 & 1 & 2 \\ 1 & 4 & 3 \\ 2 & 3 & 6 \end{matrix}$$

4. Is given stress tensor a case of pure shear?   (True/False)

$$\begin{matrix} 3x - 2p + p2 & y & z \\ y & -2x + p - 2p2 & a \\ z & a & -x + p + p2 \end{matrix}$$

5. If all three principal stresses are equal then Mohr circle reduces to a point and this case will be known as hydrostatic case.   (True/False)