

Load history of A fatigue loaded component made of 2014-T6 Aluminium is given below. Find the residual life of the component as per the table if it is subjected to 3000rpm. **(6 Marks)**

| Sl.No. | Stress Amplitude MPa | Number of cycles | |
|--------|-------------------------|------------------|--|
| 1 | 250 | 20000 | |
| 2 | 150 | 200000 | |
| 3 | 100 | ? | |

