Timers used in Jmeter:

Timers are only processed in conjunction with a sampler. A timer which is not in the same scope as a sampler will not be processed at all. To apply a timer to a single sampler, add the timer as a child element of the sampler. The timer will be applied before the sampler is executed. To apply a timer after a sampler, either add it to the next sampler, or add it as the child of a Test Action Sampler.

There are five types of timers available in Jmeter those are as follows

1). Constant timer
   By using this timer, we can pause each thread for same amount of time between requests.
   Parameters of this timer is Name and Thread delay (These delay can be paused in milliseconds)

2). Gaussian Random Timer: Random amount of time is paused between each thread and most of the time intervals occurring near a particular value.

3). Uniform Random Timer: Random amount of time pause between each thread and each time interval having the same probability of occurring. Total dey will be calculated using the sum of random delay and constant delay offset

4). Constant Throughput Timer: These introduce variable pauses which will be calculated to keep total throughput as close as possible to a given figure. If the server is not capable of handling then throughput will be automatically given low.

5). Synchronizing Timer: These thread is useful for attempting all the threads at time, these can be done by blocking threads until X number of threads have been blocked. For creating large instant loads at different points of the test plan.

Out of these timers we are mostly used one is constant timer which will be added under the each request. In moodle testing we used constant timer as 5 seconds for every page after 5 seconds next page request will be generated until this time user will attempt the questions under the quiz module.