B.Sc 1st semester Examination 2021  
Sub: Physics Practical  
Paper : PHY-HG-RC1016  
Write the only theory/ working principle of any one practical from the following:  
Q. Measurements of length (or diameter) using vernier caliper, screw gauge, Spherometer and travelling microscope.  
Q. To determine the Young’s Modulus of the material of a wire by Searle’s apparatus.  
Q. To determine the value of g using Bar Pendulum.

Please answer the following questions as part of viva of your practical.

1. What is the least count of a normal measuring scale?
2. What is the least count of a vernier scale?
3. Define pitch?
4. Which instrument has better accuracy, slide calipers or Screw gauge?
5. What is the time period of a bar pendulum when oscillate with respect to centre of mass?
6. Give example of a compound pendulum.
7. Are centre of oscillation and centre of suspension same? Explain.

Upload the answer sheet in examinationbbkc@gmail.com and submit the hard copy in Physics Dept, BBK   
College.