**AKGEC/IAP/FM/02**

**Ajay Kumar Garg Engineering College, Ghaziabad**

**Department of Applied Sciences & Humanities**

**Sessional Test-2**

**Course:** B.Tech **Semester:** III

**Session:** 2017-18  **Sections:** CS-1, CS-3, IT-2, EN-1, EI-1

**Subject:** Space Science **Sub. Code:** ROE-034

**Max Marks:** 50 **Time:** 2 hour

**Section-A**

**A. Attempt all the parts. (5x2 = 10)**

**1.** Define distance modulus.

**2.** What do you mean by asteroid belt?

**3.** Write names of few natural satellites?

**4.** What is nebula?

**5.** What are comets?

**Section- B**

**B. Attempt all the parts. (5x5 = 25)**

**6.** What are the problems related to eye in space observation? Also mention its remedies.

**7.** What is Bode’s law? Which planet do not fit in Bode’s law and why?

**8**. Draw a neat and clean sketch of our solar system and show the relative position of planet.

**9.** Discuss apparent and absolute magnitude of stars.

**10.** How do scientists measure space weather? Mention technique.

**Section- C**

**C. Attempt all the parts. (7.5x2 = 15)**

**11.** State Kepler’s laws of planetary motion and show that how they can be deduced from

Newton’s law of gravitation?

**12.** Describe the achievements of Hubble Space Telescope. How radio telescopes are better than optical telescopes?