



**ELIZADE UNIVERSITY**

**ILARA-MOKIN**

**ONDO STATE**

**FACULTY: Basic and Applied Sciences**  
**DEPARTMENT: Physical and Chemical Sciences**  
**FIRST SEMESTER EXAMINATIONS**  
**2018/2019 ACADEMIC SESSION**

**COURSE CODE: PHY 209**

**COURSE TITLE: INTRODUCTION TO SPACE SCIENCE**

**DURATION: 2 HOURS**

**HOD's SIGNATURE**

**TOTAL MARKS:**

**Matriculation Number:** \_\_\_\_\_

**INSTRUCTIONS:**

1. Write your 'matriculation number in the space provided above and also on the cover page of the exam booklet.
2. This question paper consists of 2 pages with printing on both sides.
3. Answer all questions in the examination booklet provided.
4. More marks are awarded for problem solving method used to solving problems than for the final numerical answer.
5. Box your final answers.
6. Attempt any 4 of the 5 questions



#### Question one

What is the difference between astronomy and astrophysics. Hence, describe three types of astronomy.

#### Question two

- (a) Explain the following – Satellite constellation, medium earth orbit and geostationary orbit.
- (b) Describe five applications of communication satellites

#### Question three

- (a) How do we communicate with satellite ?
- (b) What is a satellite transmission ?
- (c) How does a satellite work in space ?
- (d) Why do satellite don't fall and stay in orbit ?

#### Question four

- (a) Describe space law and early development ?
- (b) With diagram, explain Van Allens's radiation belts ?

#### QUESTION FIVE

Discuss two international principles and declarations adopted by the United Nations General Assembly on space law ?