

ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD
(Department of Science Education)

WARNING

1. **PLAGIARISM OR HIRING OF GHOST WRITER(S) FOR SOLVING THE ASSIGNMENT(S) WILL DEBAR THE STUDENT FROM AWARD OF DEGREE/CERTIFICATE, IF FOUND AT ANY STAGE.**
2. **SUBMITTING ASSIGNMENTS BORROWED OR STOLEN FROM OTHER(S) AS ONE'S OWN WILL BE PENALIZED AS DEFINED IN "AIOU PLAGIARISM POLICY".**

Course: Teaching of Physics

Course Code: 6516

Level: M.A (Teacher Education)

Semester: Autumn, 2013

Total Marks: 100

Pass Marks: 40

ASSIGNMENT No. 1

(Units: 1-4)

- Q.1 a) What is the relationship of Physics with other science subjects? (10)
b) Describe in detail the role of Physics in daily life. (10)
- Q.2 Describe the merits and demerits of demonstration method for Teaching Physics. In what way this method of Teaching is different from simple lecture method?(10+10)
- Q.3 How can a Physics laboratory be managed? Describe in detail all important aspects regarding management of Physics laboratory. (20)
- Q.4 Write down a detailed note on the role of assessment and evaluation in Teaching Physics. (20)
- Q.5 Discuss in detail the Facility Index and Discriminatory Factor regarding test analysis. (20)

ASSIGNMENT No. 2

(Units: 5-9)

Total Marks: 100

Pass Marks: 40

- Q.1 "Instructional media can make teaching and learning of physics more effective and meaningful". Support this argument with concrete examples. (20)
- Q.2 How would you teach the concepts of Scalar and Vectors to your students in simple terms? Also suggest some activities and methods for teaching the concept of addition of vectors. (20)
- Q.3 a) How would you explain the concept of waves and types of waves to your students? Suggest some simple experiments to demonstrate the concept of waves. (10)
b) Describe the different types of waves and the role of particles of the medium through which waves pass on. (10)
- Q.4 Differentiate between reflection of light and refraction of light. Support your answer with suitable examples as well as diagrams. (20)
- Q.5 What is the nature and composition of light? Describe in detail different theories of light. (20)