

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: Foundations of Science Education (695)

Level: M.Ed

Semester: Autumn, 2012

Total Marks: 100

Pass Marks: 40

ASSIGNMENT No. 1

(Units 1–4)

- Q.1 “There is no conflict between science and Islam”, debate giving evidence from the Quran and Ahadiths. (20)
- Q.2 Write an essay on contributions of Muslims in the field of science. (20)
- Q.3 Compare and contrast the nature of science and philosophy. (20)
- Q.4 Describe the salient characteristics of philosophy of logical positivism. (20)
- Q.5 Write brief notes on following: (10+10)
- a) Francis Bacon’s method of science
 - b) Aristotle’s inductive – deductive method

ASSIGNMENT No. 2

(Units 5–9)

Total Marks: 100

- Q.1 What is the role of learning theories in teaching science? Also explain programmed learning and its limitations. (20)
- Q.2 Describe the origins of “constructivism” as philosophy of science education. (20)
- Q.3 Discuss in detail the positive and negative impact of developments in science and society. (20)
- Q.4 “There is a causal link between science and national development”, debate giving evidence. (20)
- Q.5 Give a critical analysis of state of science education in Pakistan at secondary level with reference to teacher training, curricula, textbooks and practical work in science. Also suggest the changes which should be made in science education to bring it at par with developed countries. (20)