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: General Science (6404/8256) Semester: Spring, 2025

**Level: ADE/BEd/BS Credit Hours: 3**

## Please read the following instructions for writing your assignments. (AD, BS, Bed, MA/MSc, MEd) (ODL Mode).

1. All questions are compulsory and carry equal marks but within a question the marks are distributed according to its requirements.

2. Read the question carefully and then answer it according to the requirements of the questions.

3. Avoid irrelevant discussion/information and reproducing from books, study guides, or allied material.

4. Handwritten scanned assignments are not acceptable. However, the students who attempt their assignments in Urdu/Arabic may upload a scanned copy of their handwritten assignments (in PDF format) on University LMS. The size of the file should not exceed 5MB.

5. Upload your typed (in Word or PDF format) assignments on or before the due date.

6. Your own analysis and synthesis will be appreciated.

7. Late assignments can’t be uploaded at LMS.

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## Total Marks: 100 Pass Marks: 50

**ASSIGNMENT No. 1**

**(Units 1–4)**

Q.1 Classify science. Explain all kinds of sciences with the help of examples. (20)

Q.2  A Balance the chemical equations

 i. NaOH + H2 SO4 --------------------- Na2 SO4 + H2 O

 ii. Al + S ----------------------------Al 2S3

 iii. O2 + H2  ------------------------- H2 O

 iv. Cu2 S +O2 ------------------------Cu2 O + SO2

v. Cu2 S + O2 -------------------------Cu2 O + SO2

B) Define the following: Valency, atomic number, force, inertia, and galaxy. (20)

Q.3 Write a note on Earth and its structure. Explain what the results of the rotation and revolution of the Earth are. (20)

Q.4 Define the third law of motion. Give at least five examples from our daily life. (20)

Q.5 Identify pushes and pulls in your daily routines. Write units of pressure. (20)

## Total Marks: 100 Pass Marks: 50

**ASSIGNMENT No. 2**

**(Units 5–9)**

Q.1  Give reasons (20)

 i. How step-up transformer work?

ii. Why salamander belong to the class amphibian?

iii. Why are convex mirrors installed on road edges in hilly areas?

iv. Why dietary fibrous foods are recommended for good health?

v. Why phylum Echinodermata considered nearest to the phylum Chordata?

Q.2 Draw labelled diagrams of the Human heart and digestive system. (20)

Q.3 Describe the law of conservation of energy. Also write its importance (20)

Q.4 Define Coulombs Law. Derive the relation of charges with the charged force. (20)

Q.5 Elaborate components of Abiotic factors of the environment. (20)