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SECOND YEAR (NEP Version 1)
COURSE CODE: CHE-23102
COURSE NAME: CHEMISTRY IN ANCIENT INDIA
(Semester III)

Program: B.Sc. General
Program Specific: S.Y.B.Sc.
Course Type: INDIAN KNOWLEDGE SYSTEM
Paper: II

Credits: 2
Time: 2 Hours
Max. Marks: 30
SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

SECTION: A

Q1) Answer the following:

[5 x 1= 5]

1. Name the seven base metals used in ancient India.
2. Where were extensive copper ore deposits found in India?
3. Name any text related with extraction of gold metal.
4. What are Arista and Asava?
5. Which are five basic essential elements mention in Panchmabhuta?

SECTION: B

Q2) Answer the following: (Any 5)

[5 x 2 =10]

1. Name the two ancient fields of Chemistry which on combination evolved into the current day Chemistry.
2. Which method was used in extraction of zinc in ancient India? Why?
3. Give the composition of any two alloys used in Harrapan era.
4. Explain Rasa Rasayan in Ayurvedic medicines.
5. Write short note *Shodhana*.
6. Explain any one Herbo-mineral formulations of Ayurveda.
7. What is mixture of Bhasma form in gold?

SECTION: C

Q3) Answer the following: (Any 2)

[2 x 5 = 10]

1. Discuss any two areas involved with Chemistry in ancient India.
2. Explain the metallurgy of iron.
3. Explain different chemical process involved in preparation of Ayurvedic medicine.
4. How was Mercury used in herbal formation in Ayurvedic medicine?

SECTION: D

Q4) Answer the following: (Any 1)

[5 x 1 = 5]

1. Discuss the laboratory and apparatus used in ancient India.
2. Explain the theory of *Panchamahabhuta* at the atomic level.
