Q.1. A) Read the extract and do the activities given below: (12)

Contaminated or polluted soil affects human health through direct contact with soil or via inhalation of soil contaminants which have vaporized. Potentially greater threats are posed by the infiltration of soil contamination into groundwater aquifers. This tends to result in the development of pollution-related diseases.

Health hazards cause due to soil contamination very greatly depending on the pollutant type and vulnerability of the exposed population. Constant exposure to chromium, lead, petroleum, many pesticides and herbicide formulations can be carcinogenic and can cause congenital disorders or other chronic health conditions. Industrial or man-made concentrations of naturally occurring substances, such as nitrate and ammonia associated with livestock manure has also been identified as health hazards in soil and groundwater.

Chronic exposure to benzene at sufficient concentration is known to be associated with higher incidences of leukemia. Mercury and cyclodines are known to induce higher incidences of kidney damage and some irreversible diseases. Organophosphates and carbonates can induce a chain of responses leading to neuromuscular blockage. Many chlorinated solvents induce liver changes, kidney changes and depression of the central nervous system. There is an entire spectrum of further health effects such as headache, nausea, fatigue, eye-irritation and skin rash for the above cited and other chemicals. At sufficient dosages a large number of soil contaminants can cause death by exposure via direct contact, inhalation or ingestion of contaminants in groundwater contaminated through soil.

A1) State whether the statements are true or false. (2)
   i. Animal manure does not have any evil effect on groundwater.
   ii. Pollution related health consequences depend on the immunity of the exposed population.
   iii. Only mercury is to be blamed for kidney damage.
   iv. Soil contamination is a potential health hazard.

A2) Complete:
   Match the pairs of the words in column A with their meanings in column B (2)

<table>
<thead>
<tr>
<th>Column “A”</th>
<th>Column “B”</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Infiltration</td>
<td>a) process of eating, drinking or using</td>
</tr>
<tr>
<td>ii) Inhalation</td>
<td>b) action of increasing strength of solution</td>
</tr>
<tr>
<td>iii) Consumption</td>
<td>c) passing of liquid through</td>
</tr>
<tr>
<td>iv) Concentration</td>
<td>d) breathing air in</td>
</tr>
</tbody>
</table>

A3) Explain from the given extract how soil pollution affects drinking water. (2)
A4) Personal Response:  
Suggest two steps to keep away from the use of chemicals in home.

A5) Grammar: Do as directed  
1) Organophosphates and carbonates can induce a chain of responses leading to neuromuscular blockage. (Rewrite using ‘Not only….. but also’.)
2) This tends to result in the development of pollution-related diseases.  
(Make a Rhetorical question)

A6) Vocabulary  
Give one word for the following.
(i) The quality or state of being exposed to the possibility of being attacked or harmed, either physically or emotionally.
(ii) Not able to be undone or altered.
(iii) Danger/risk
(iv) The state of having no protection from something harmful.

B) Write a Summary of the above unseen extract.  
Summarize the above extract with the help of the points given and suggest a suitable title:  
(Health and groundwater problem – bad effects of chemicals – industrial and man-made concentration – pollutants related diseases.)

C) Note Making:  
Read the following extract and complete the table given below “Types of Diseases”:

Sudha Murthy was born on 19th August, 1950; in Shiggaon in Karnataka. She and her siblings were raised by her parents and maternal grandparents. She completed B.E. in Electrical Engineering from B. V. B. College of Engineering and Technology, standing first in her class and receiving a gold medal from the Chief Minister of Karnataka. She completed M.E. in Computer Science from the Indian Institute of Science, standing first in her class and receiving a gold medal from the Indian Institute of Engineering.

Sudha Murthy became the first female engineer hired at India’s largest auto manufacturer TATA Engineering and Locomotive Company (TELCO) as a Development Engineer. She later joined Walchand Group of Industries at Pune as a Senior System Analyst. In 1996, she started Infosys Foundation and has been a Visiting Professor at the P.G. centre of Bangalore University.

Sudha Murthy’s work covers the healthcare, education, empowerment of women and public hygiene at the grass root level. Her vision of a library for each school has resulted in the setting of 50,000 libraries so far. She is helping out rural areas by building 10,000 public toilets and several hundred toilets in the city of Bangalore. Infosys Foundation is a public charitable trust founded in 1996 and Sudha Murthy is one of the trustees. Through the foundation she has built 2,300 houses in the flood affected areas.
Sudha Murthy

B1. Early life and education

Birthplace: ____________________

Education: B.E. from B.V.B. College of Engineering, with gold medal:

_______________________________________________

B2. Career:

Senior System Analyst in Walchand Group of Industries, Pune.

_______________________________________________

B3. Social activities: Set of 50,000 libraries

________________________________________________

Several hundred toilets in Bangalore

________________________________________________

Q.2. A) Unseen Grammar: Do as directed:

1) The police Monday arrested five men cheating city businessmen. (Rewrite the sentence using appropriate preposition)

2) Can I have the pencil that I gave you this morning? (Identify the relative clause)

3) Father said to me, “Do you want this bike?” (Change it into reported speech)

B) Identify the figure of speech from the given lines.

1) Where not a frost has been.

2) Creeping like a snail.

Q.3. Writing Skills

A) Appeal:

In the horrible flood situation, the Kerala state suffered a huge loss. Your organisation has arranged a rally to raise funds to help the flood-affected people in Kerala. Prepare an appeal for the people to contribute to the funds with the help of the following points:

- Purpose of the rally
- Time & place of the rally
- Leading personalities
- Request for donation
- Add your own points

B) Film review:

‘Super 30’ Bollywood/ Hindi Film is about IIT aspirants from Patna. Write a film review with the help of the following points in about 100 to 150 words.

- Headlines
- Genre
- Plot
- Story lines
- Characters /casting (major & minor)
- Setting/location
- Conflict
- Message