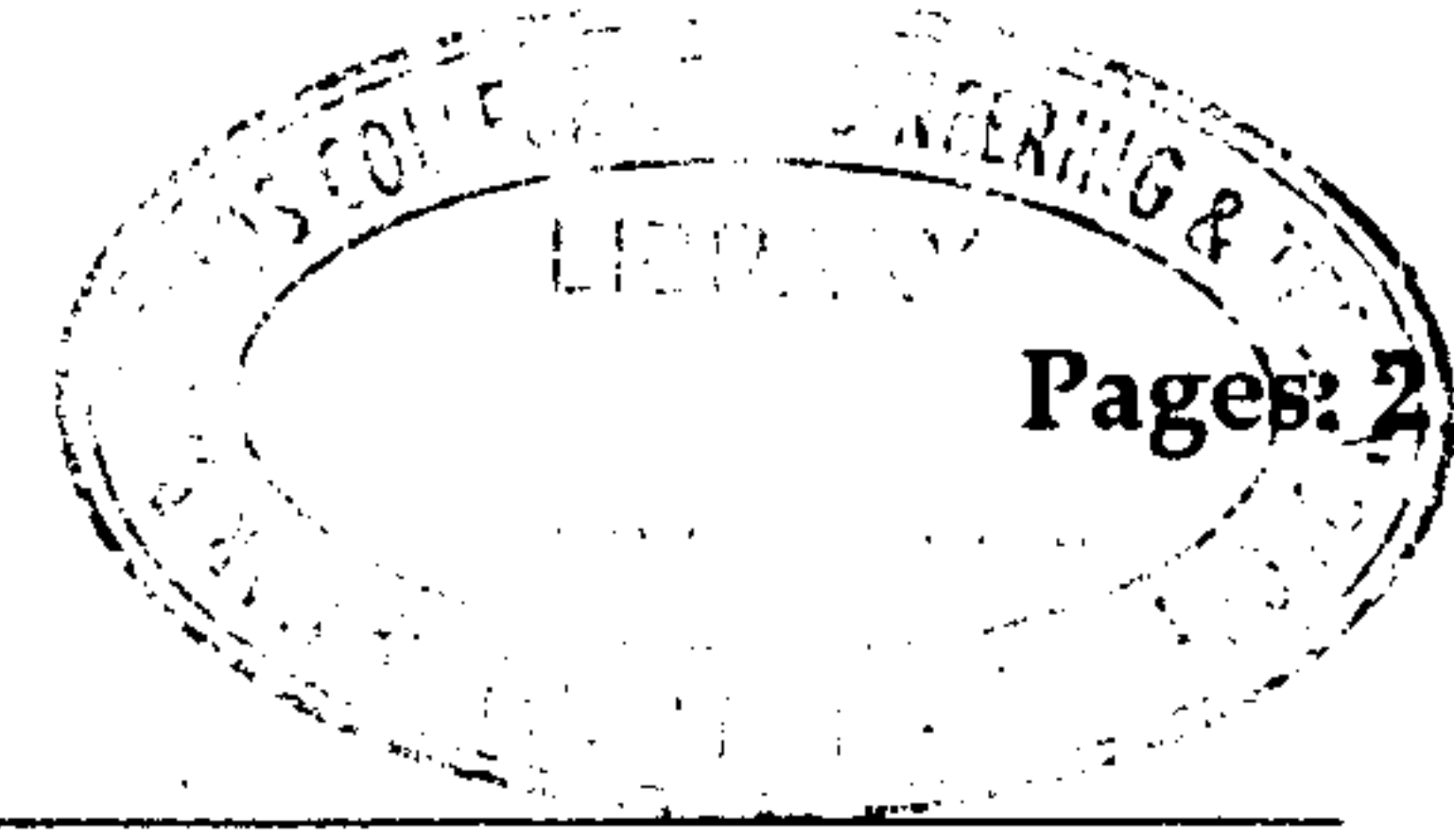


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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
THIRD/FOURTH SEMESTER B.TECH DEGREE EXAMINATION, APRIL 2018

Course Code: HS210
Course Name: LIFE SKILLS

Max. Marks: 50

Duration: 2 Hours

PART A*Answer all questions, each carries 6 marks.*

Marks

- | | | |
|---|---|-----|
| 1 | a) State the guidelines for ensuring success in job interviews. | (4) |
| | b) Compare Proxemics and Chronemics. | (2) |
| 2 | a) Discuss the steps involved in problem solving. | (5) |
| | b) What is lateral thinking? | (1) |
| 3 | a) Discuss the techniques of group dynamics. | (4) |
| | b) Differentiate a group and a team | (2) |
| 4 | a) Discuss the senses of Engineering Ethics. | (3) |
| | b) Explain the term engineering as experiment. | (3) |
| 5 | a) What is meant by leadership and discuss its types. | (5) |
| | b) What is VUCA leadership? | (1) |

PART B*(Read carefully the following case and answer the questions given below, it carries 20 marks.)***(Case study)**

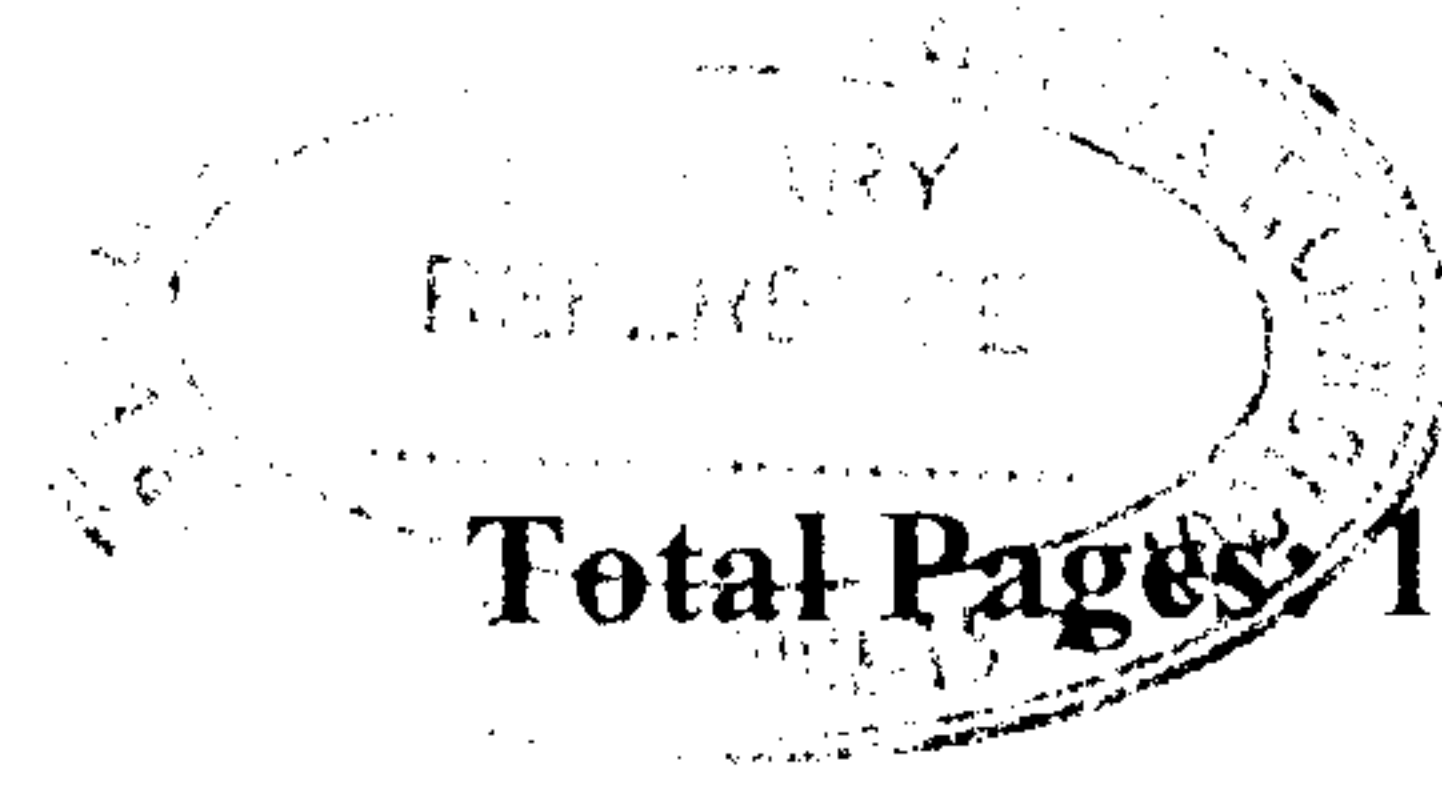
6. Ramanujan Shastri, secretary in the ministry of defense, is a respected and admired bureaucrat. Defense minister trusts Ramanujan and has given him a free hand in the ministry. Ramanujan, who is at the fag end of his career, recently lost his elder son and wife in an accident and ever since, he has kept a low profile and has grown more fond of his other son who now just finished his graduation from an ordinary institution in the capital. In a deal involving direct government to government contract with a major arms supplier, Ramanujan is tasked with speeding up the contract agreement and finalize the deal. The manufacturer, who will benefit immensely if the process is expedited, on many occasions has personally contacted Ramanujan and expressed his frustration in the slow movement of files in the ministry. Ramanujan's younger son wants to study in a world's most reputed university for which he needs a lot of money and good references. Son has his father's complete support and he himself is contemplating the idea of moving out with his son to a new place, but money is the constraint. The person from the company who is in touch with Ramanujan comes to know about this and in one of his meetings

with Ramanujan, he assures him to look after his son's entire higher education costs — from admission to placement to a well paying job — provided he speeds up the finalization of the deal. Because of unexpected political circumstances, the defense minister now wants to scrap the deal. From his experience Ramanujan senses that the present controversy is temporary and somehow the deal will be inked later. Ramanujan who has few months of service left with him is in a dilemma. He doesn't want to disappoint his son and at the same time he wants to be in good terms with the minister. The deal, if signed, doesn't harm anyone's interests. The products are of world class and are sure to add value to the country's defense arsenal.

- a) Identify the key players in this case. (3)
- b) What should be Ramanujan's course of action in this situation? (7)
- c) How Ramanujan deal with his son and manufacturer? (6)
- d) Discuss the ethical issues in private life versus public relation. (4)

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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
THIRD SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2017

Course Code: HS210

Course Name: LIFE SKILLS

Max. Marks: 50

Duration: 2 Hours

PART A

Answer all questions, each carries 6 marks.

- | | | Marks |
|---|---|-------|
| 1 | a) What are the different levels of communication? | (3) |
| | b) List and explain the different types of barriers in communication. | (3) |
| 2 | a) How does six thinking hat method help in decision making? | (3) |
| | b) Differentiate lateral thinking from vertical thinking. What are the four kinds of thinking tools used in lateral thinking? | (3) |
| 3 | a) "A group focuses on individual contribution, while a team must focus on synergy." Explain. | (3) |
| | b) Identify the type of group formed / constituted in each of the situations given below | (3) |
| | (i) An enquiry committee constituted to investigate a specific incident. | |
| | (ii) The Engineering Department of a company. | |
| | (iii) A group of members of a movie fans club. | |
| 4 | a) Compare and contrast Kohlberg theory and Gilligan's theory. | (4) |
| | b) What ethical responsibilities does an engineer have towards the environment? | (2) |
| 5 | Explain the six styles of leadership. | (6) |

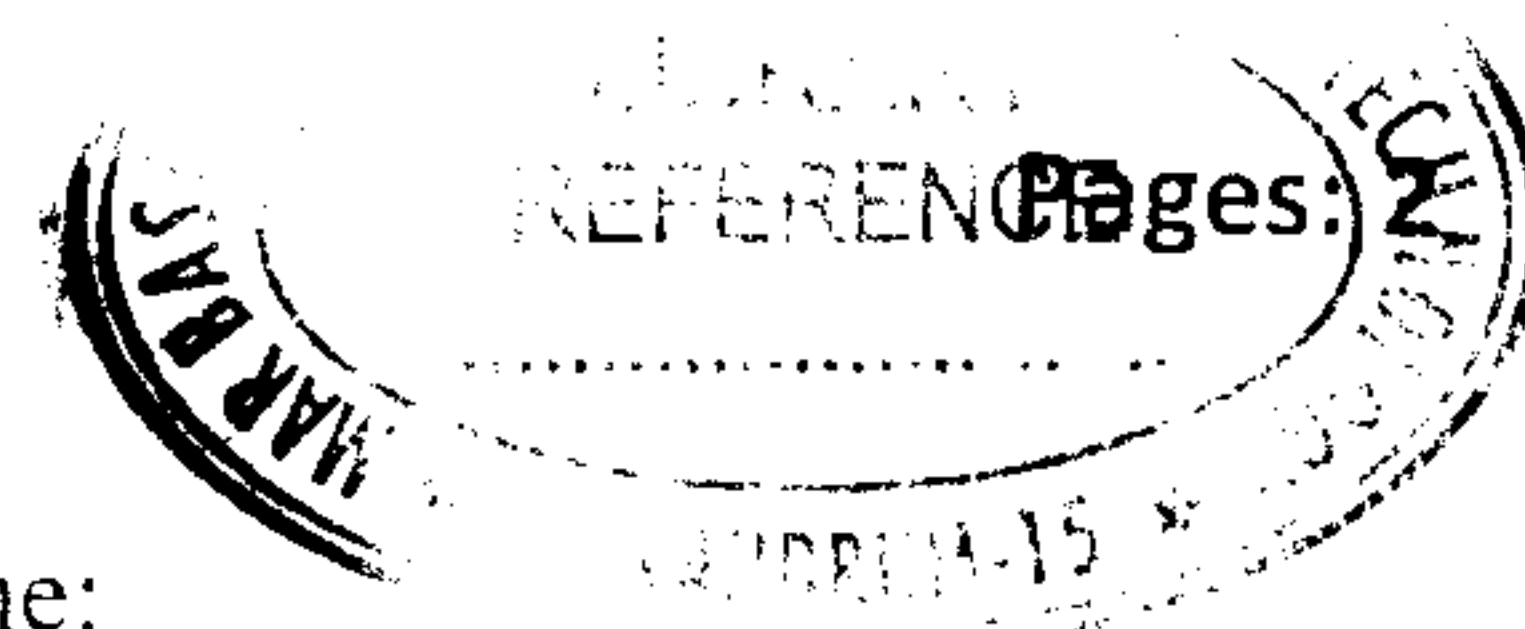
PART B

Read carefully the following case and answer the questions given below, it carries 20 marks.

(Case study)

You are a trainee accountant in your second year of training within a small company. A more senior trainee has been on sick leave, and you are due to go on study leave. You have been told by your manager that, before you go on leave, you must complete some complicated reconciliation work. The deadline suggested appears unrealistic, given the complexity of the work. You feel that you are not sufficiently experienced to complete the work alone. You would need additional supervision to complete it to the required standard, and your manager appears unable to offer the necessary support. If you try to complete the work within the proposed timeframe but fail to meet the expected quality, you could face repercussions on your return from study leave. You feel slightly intimidated by your manager, and also feel pressure to do what you can for the practice in what are challenging times.

- | | | |
|---|---|-----|
| 6 | a) Who are the affected parties in the above passage? | (1) |
| | b) Identify relevant facts in the above situation. | (3) |
| | c) Who should be involved in coming up with a solution to this problem? | (4) |
| | d) Would it be right to attempt to complete work that is technically beyond your abilities, without proper supervision? | (4) |
| | e) Can you refuse to perform the work without damaging your reputation within the practice? | (4) |
| | f) What is the possible course of action that could be taken in this situation? | (4) |



Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
THIRD SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018

Course Code: HS210

Course Name: LIFE SKILLS

Max. Marks: 50

Duration: 2 Hours

PART A

Answer all questions, each carries 6 marks.

Marks

- | | | |
|---|--|-----|
| 1 | Your college recently organised a seminar on 'Say No to Tobacco'. The speakers included well known educationists and doctors. Write a report on the same for your college magazine in not more than 100 words. | (6) |
| 2 | a) You were asked to give a speech on global warming for the Environment Day celebration in your college. Prepare the data needed by the method of mind mapping. | (3) |
| | b) Give 3 differences between critical thinking and creative thinking. | (3) |
| 3 | What are the different steps taken in group problem solving? | (6) |
| 4 | a) Explain the meaning and need of work ethics. | (3) |
| | b) What is environmental ethics and comment on environmental ethics and engineers? | (3) |
| 5 | Give a short note on leadership styles. | (6) |

PART B

Read carefully the following case and answer the questions given below, it carries 20 marks.

6

(Case study)

The Exxon Valdez oil spill occurred in Prince William Sound, Alaska, March 24, 1989, when Exxon Valdez, an oil tanker owned by Exxon Shipping Company, bound for Long Beach, California, struck Prince William Sound's Bligh Reef, 1.5 miles west of Tatitlek, Alaska at 12:04 am local time and spilled 10.8 million US gallons (or a mass of 35,000 metric tonnes) of crude oil over the next few days. It is considered to be one of the most devastating human-caused environmental disasters. Prince William Sound's remote location, accessible only by helicopter, plane, or boat, made government and industry response efforts difficult and severely taxed existing response plans. The region is a habitat for salmon, sea otters, seals and seabirds. The oil, originally extracted at the Prudhoe Bay oil field, eventually covered 1,300 miles (2,100 km) of coastline, and 11,000 square

miles (28,000 km²) of ocean.

According to official reports, the ship was carrying 53,094,510 gallons (1,264,155 barrels) of oil, of which about 10.8 million US gallons were spilled into the Prince William Sound. During the first few days of the spill, heavy sheens of oil covered large areas of the surface of Prince William Sound.

Multiple factors have been identified as contributing to the incident: Beginning three days after the vessel grounded, a storm pushed large quantities of fresh oil on to the rocky shores of many of the beaches in the Knight Island chain. Exxon Shipping Company failed to supervise the master and provide a rested and sufficient crew for Exxon Valdez. The third mate failed to properly maneuver the vessel, possibly due to fatigue or excessive workload.

Exxon Shipping Company failed to properly maintain the Raytheon Collision Avoidance System (RAYCAS) radar, which, if functional, would have indicated to the third mate an impending collision with the Bligh Reef. Captain Joseph Hazelwood, who was widely reported to have been drinking heavily that night, was not at the controls when the ship struck the reef.

Other factors, included: Ships were not informed that the previous practice of the Coast Guard tracking ships out to Bligh Reef had ceased. The oil industry promised, but never installed, state-of-the-art iceberg monitoring equipment. Exxon Valdez was sailing outside the normal sea lane to avoid small icebergs thought to be in the area. (Source: Wikipedia).

- a) Identify the key players in the case (4)
- b) What are the professional responsibilities neglected by each of the key players in the case? (4)
- c) What are the ethical issues attached to the case? (4)
- d) How do you think that the disaster management team of the Exxon reacted to the accident? (4)
- e) What are the lessons learned from the Exxon Valdez oil spill? (4)

Reg. No _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
THIRD SEMESTER B.TECH DEGREE EXAMINATION, JANUARY 2017

Course Code: **HS210**Course Name: **LIFE SKILLS**

Max. Marks: 50

Duration: 2 Hours

PART A

Answer all questions

1. a. Interpret the following body language cues
 - i) Showing open palms
 - ii) Tapping fingers
 - iii) Spread legs with hands on hips
 - iv) Biting nails (2)
- b. Differentiate between a group discussion and a debate. (4)
2. a. List the main differences between the cognitive functions of the left and right brain. (3)
- b. Match the statements to the hats, and explain the significance of each colour.

(a) Green	(1) What will be the marketing plan for our chapathi makers?
(b) Black	(2) Since everyone love chappathies, it is bound to be popular.
(c) White	(3) The low price will increase volume of sales and hence profit
(d) Blue	(4) If we put a low price, we will not make any profit.
(e) Red	(5) Why don't we add bluetooth to the Chapati maker?!
(f) Yellow	(6) The manufacturing unit will cost Rs. 60 lakhs. (3)
3. List and explain the steps in group problem solving (6)
4. a. What is meant by moral autonomy? Do engineers need moral autonomy?
Substantiate your answer (3)
- b) List six ethical responsibilities that an engineer has towards the environment. (3)
5. a. Differentiate between transactional and transformational leadership. (3)
- b. List the different styles of leadership. (3)

PART B

Read carefully the following case and answer the questions given below

6. Geetha, a junior member of the staff has just returned to work after taking special leave to care for her elderly mother. For financial reasons she needs to work full-time. She has been having difficulties with her mother's home care arrangements, causing her to miss a number of team meetings (which usually take place at the beginning of

each day) and to leave work early. She is very competent in her work but her absences are putting pressure on her and her overworked colleagues. Bhathra, Geetha's manager, is aware that the flow of work through the section is coming under pressure. Kumar, one of Geetha's male colleagues, is beginning to make comments such as "a woman's place is in the home", and is undermining her at every opportunity, putting her under even greater stress.

Questions:

- a. Identify the key players in this case (3)
- b. How should Bhathra deal with Kumar ? (4)
- c. Name the people that may need to be involved in the resolution of this problem? (4)
- d. If you are Bhathra, what are the possible strategies that you can consider to solve this problem? (6)
- e. Are there any moral/ ethical issues involved? If yes, enumerate. (3)

Reg. No. _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FOURTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2017

HS 210: LIFE SKILLS

Max. Marks: 50

Duration: 2 Hours

PART A

Answer all questions.

1. (a) Suppose you are working in a well-reputed aerospace company at Industry-University Relation Department and you are in charge of internship offerings to college students. A student has sent you a request to change the internship dates allotted for them due to the schedule of their internal exams at college.
Compose an e-mail to the student informing the difficulty to change the dates and to do arrangements in their college itself. (4)
- (b) Identify the communication network related to each of the following situations.
 - (i) A film star interviewed by an interviewer
 - (ii) Teachers, conveying instructions to students, discussed in Principal's meeting.
 - (iii) Software Engineers' discussion to select a website layout.
 - (iv) Communication between a boss and his/ her subordinate. (2)
2. (a) Identify which of the following problems on solving require convergent thinking and which require divergent thinking.
 - (i) What happens when the air we breathe is green in colour?
 - (ii) Solve $(x^2 + x^3 + x^4)(x^4 + 2x^3 + 3x^4 + 4x^5) = 0$.
 - (iii) What about the computers in year 2080?
 - (iv) Possibility of a World War for food. (2)
- (b) You were asked to collect details about any one of your friend using mind mapping technique, so that you will be able to remember the details. Prepare a mind map drawing for the requirement. (4)
3. Two Professors initiated to give an engineering design task based on their course and decided to team students based on their CGPA. Professor A teamed his students such that students having same CGPA form one team. Professor B teamed his students as each team contains students having different range of CGPA values.
 - (i) Out of these teams identify heterogeneous & homogeneous teams.
 - (ii) By which teaming, a better outcome is expected.
 - (iii) How heterogeneous & homogeneous teams differ from each other? (6)
4. Explain moral reasoning development over different stages according to Kohlberg's theory. (6)
5. (a) Match the given phrases to the correct leadership styles. (3)

Affiliative	<i>Try to do this</i>
Authoritative	<i>People come first</i>
Coaching	<i>Do what I know</i>
Coercive	<i>What do you think?</i>
Democratic	<i>Come with me</i>
Pace Setting	<i>Do what I tell</i>

- (b) How transactional leadership and transformational leadership differs each other? (3)

PART B

6. *Read the article and answer the questions given below.*

It occurred on the night of 2–3 December 1984 at the Union Carbide India Limited (UCIL) pesticide plant in Bhopal, Madhya Pradesh. Over 500,000 people were exposed to Methyl Isocyanate (MIC) gas and other chemicals. A runaway reaction had occurred in a storage tank of Methyl Isocyanate (MIC), which was used to manufacture a pesticide. The valves of the tank had burst, and a cloud of poisonous gas had escaped. The winds carried it to nearby shanty towns and the populous city of Bhopal, where thousands of people either died in their sleep or woke and died while fleeing. Those who survived suffered from burning eyes and lungs. Local medical facilities were not equipped for the disaster, and over the next few weeks thousands more died.

The killer gas spread through the city, sending residents scurrying through the dark streets. No alarm ever sounded a warning, so that local people were not informed the situation, and no evacuation plan was prepared. When victims arrived at hospitals breathless and blind, doctors did not know how to treat them, as UCIL had not provided emergency information.

Perhaps most importantly at the time of the tragedy, the staff did not realize the gravity of the situation and even took a break for tea after the leak had been noticed, thinking they would have plenty of time to fix it. The operator in the control room did not notify his supervisor when the temperature began to rise inside the tank and the entire situation remained unattended for at least an hour.

The disaster raised some serious ethical issues. The pesticide factory was built in the midst of densely populated settlements. UCIL chose to store and produce MIC, one of the most deadly chemicals (permitted exposure levels in USA and Britain are 0.02 parts per million), in an area where nearly 120,000 people lived. The MIC plant was not designed to handle a runaway reaction. When the uncontrolled reaction started, MIC was flowing through the scrubber (meant to neutralize MIC emissions) at more than 200 times its designed capacity.

- (i) Do you think UCIL is responsible for the disaster? Why? (4)
- (ii) Discuss the communication failures occurred in the case resulting in the tragedy. (4)
- (iii) As an engineer, comment on the drawback of the design which may have the reason for the tragedy. (4)
- (iv) What are all the ethical issues involved in the case? (4)
- (v) “The pesticide factory was built in the midst of densely populated settlements”. Analyze and comment on this statement. (2)
- (vi) Imagine you were in the engineering design team of this plant. What could you have altered the design in concern with safety? (2)
