1. Necessity is indeed the mother of invention. When areas in and around Leh began to experience water shortages, life didn't grind to a halt. Why? Because Chewang Norphel, a retired civil engineer in the Jammu and Kashmir government came up with the idea of artificial glaciers.

2. Ladakh, a cold desert at an altitude of 3,000-3,500 metres above sea level, has a low average annual rainfall rate of 50mm. Glaciers have always been the only source of water. Agriculture is completely dependent on glacier melt unlike the rest of river/monsoon-fed India. But over the years with increasing effects of climate change, rainfall and snowfall patterns have been changing, resulting in severe shortage and drought situations. Given the severe winter conditions, the window for farming is usually limited to one harvest season.

3. It is located between the natural glacier above and the village below. The one closer to the village and lowest in altitude melts first, providing water during April/May, the crucial sowing season. Further layers of ice above melt with increasing temperature thus ensuring continuous supply to the fields. Thus, farmers have been able to manage two crops instead of one. It costs about Rs.1,50,000 and above to create one.

4. Fondly called the "glacier man", Mr. Norphel has designed over 15 artificial glaciers in and around Leh since 1987. In recognition of his
pioneering effort, he was conferred the Padma Shri by President Pranab Mukherjee, in 2015.

5. There are few basic steps followed in creating the artificial glacier.

6. River or stream water at higher altitude is diverted to a shaded area of the hill, facing north, where the winter sun is blocked by a ridge or a mountain range. At the start of winter/November, the diverted water is made to flow onto sloping hill face through distribution channels. Stone embankments are built at regular intervals which impede the flow of water, making shallow pools and freeze, forming a cascade of ice along the slope. Ice formation continues for 3-4 months resulting in a large accumulation of ice which is referred to as an "artificial glacier". (349 words)

1. Attempt any eight of the following questions on the basis of the passage: (1X8=8Marks)

   i. Who was Chewang Norphel?
   ii. What kind of land form is Ladakh?
   iii. Why have Glaciers been the only source of water for Ladakh?
   iv. Why has the pattern of snowfall and rainfall changed?
   v. How are Glaciers significant for irrigation?
   vi. How do farmers manage to grow two crops instead of one?
   vii. In which year did President Pranab Mukherjee confer Padma Shri to Mr. Norphel?
   viii. How many months does the ice formation continue for?
   ix. Find the word in the paragraph 6 which means the same as 'gathering'?

Q2. Read the passage given below and answer the questions that follow:

1. Have you ever failed at something so miserably that the thought of attempting to do it again was the last thing you wanted to do?

2. If your answer is yes, then you are "not a robot." Unlike robots, we human beings have feelings, emotions, and dreams. We are all meant to grow and stretch despite our circumstances and our limitations. Flourishing and trying to make our dreams come true is great when life is going our way. But what happens when it's not? What happens when you fail despite all of your hard work? Do you stay down and accept the defeat or do you get up again and again
until you are satisfied? If you have a tendency to persevere and keep going then you have what experts call, grit.

3. Falling down or failing is one of the most agonizing, embarrassing, and scariest human experiences. But it is also one of the most educational, empowering, and essential parts of living a successful and fulfilling life. Did you know that perseverance (grit) is one of the seven qualities that have been described as the keys to personal success and betterment in society? The other six are: curiosity, gratitude, optimism, self-control, social intelligence, and zest. Thomas Edison is a model for grit for trying 1,000 plus times to invent the light bulb. If you are reading this with the lights on in your room, you know well he succeeded. When asked why he kept going despite his hundreds of failures, he merely stated that what he had been not failures. They were hundreds of ways not to create a light bulb. This statement not only revealed his grit but also his optimism for looking at the bright side.

4. Grit can be learned to help you become more successful. One of the techniques that helps is mindfulness. Mindfulness is a practice that helps the individual stay in the moment by bringing awareness of his or her experience without judgement. This practice has been used to quiet the noise of their fears and doubts. Through this simple practice of mindfulness, individuals have the ability to stop the self-sabotaging downward spiral of hopelessness, despair, and frustration.

5. What did you do to overcome the negative and self-sabotaging feelings of failure? Reflect on what you did, and try to use those same powerful resources to help you today.

2.1 On the basis of your reading of the passage, answer the following questions in about 30-40 words each.

i. According to the passage, what are the attributes of a human?
ii. What is perceived as grit?
iii. How is ‘failing’ an educational and empowering part of human life?
iv. How does mindfulness help?

2.2 On the basis of your reading of the passage, answer the following:

i. While inventing the light bulb, Thomas Edison had failed
   a. 1000 times    b. 10000 plus times
   c. 1000 plus times d. 10000 times
ii. Failure is a part of ______ life.
   a. normal b. common c. human d. ordinary

iii. In paragraph 2, ______ means continue.
   a. robots b. satisfied c. persevere d. flourishing

iv. ______ helps in preventing individuals from going down the lines of despair.
   a. success b. fear c. doubt d. mindfulness

SECTION B : (WRITING AND GRAMMAR) 30 MARKS

Q3 The climate throughout the world is changing. It has already disturbed weather patterns by increasing rainfall in some areas and decreasing it in others. The temperature is increasing day by day. It results as frequent hurricanes, tornadoes, floods, tsunamis, etc. Write an article in about 100-120 words for your school magazine on the topic ‘Global Warming: A Threat to the Life’. 8 marks

(Hints: Global warming; Rise in avg. temperature, Melting of glaciers, Due to pollution & human activities)

Q4 Develop a short story with the help of the given Starting line. Give a suitable title to your story. (150-200 words) 10 marks

It was an amazing day, full of fun and frolic. We all stood amazed to see a strange flying object over our heads. We started guessing....

Q5 Fill in the blanks choosing the most appropriate option from the ones given in the box. (1 x 4 = 4 marks)

1. Butterflies are abundant (a) ______ the Central African Republic
   2. It (b) ______ home to nearly 600 identified species.
   3. Many butterflies are brilliantly coloured and small ______ (c) some are as big as saucers.
   4. My favourite hobby, since my childhood, is ______ (d) butterflies.

1. (a) (i) in (ii) from (iii) for (iv) into
2. (b) (i) has (ii) is (iii) was (iv) are
3. (c) (i) if (ii) therefore (iii) so (iv) while
4. (d) (i) catch (ii) caught (iii) catching (iv) has been catching

Q 6. In the following passage one word has not been edited in each line. Write the incorrect word along with the correct word in the space provided.

In Himalayas, the desert is turning green. e.g. the a
Climate change in a Indian region of Ladakh has shrunk glaciers or has made rainfall
and temperature unpredictable. Water has needed to irrigating the fields.

Farmers may require aid from the government.

Q 7. Rearrange the following word or phrases to make meaningful sentences.

i. enters / millions tons / the / every year / of / ocean / plastic
ii. population / middle-class / increasing / is / coastlines / along
iii. trash / increase / has led / waste management / lack / of / in / to
iv. close / like / others / helping / my / friends

SECTION C LITERATURE (30 MARKS)

Q8 Read the extracts given below and answer the questions that follow.

Her mother remembers noticing something was wrong when the eight-year old Evelyn was waiting to play the piano. They called her name and she didn't move.

A. What was wrong with Evelyn?
B. Who noticed something wrong with Evelyn?
C. How was the wrong noticed?
D. Explain this line: 'They called her name and she didn't move.'

OR
So the swallow plucked out the Prince's eye, and flew away to the young man's garret. It was easy enough to get in, as there was a hole in the roof. Through this he darted, and came into the room. The young man had his head buried in his hands, so he did not hear the flutter of the bird's wings, and when he looked up he found the beautiful sapphire lying on the withered violets.

i. Why did the swallow pluck the Prince's eye?  
ii. Why could the young man not hear the flutter of the bird's wings?  
iii. What did the young man find after waking up?  
iv. What is meant by the word 'withered'?  

Q9. **Answer the following questions in about 30-40 words:**  
(2x5 =10 marks)  
I. Who decided to improve on the quality of the 'Pungi'? Did he succeed in his endeavour?  
II. What pleasure does one gain from the rain falling on the roof?  
III. When the Swallow died, what unusual thing happened?  
IV. When does the disciple remember the words of his Guru?  
V. How did Santosh develop a liking for climbing?  

Q10. **Answer one of the questions in about (100-150) words)**  
(8 Marks)  
A fearful situation makes us lose our senses. Express your views with reference to 'The Snake and the Mirror' on the doctor's reaction in not more than 80-100 words.

**OR**  
How did Maria Sharapova overcome the challenges, humiliations and insults to become number 1 in women's tennis?  

Q11. **Attempt any one out of two long answer type questions in (100-150 words)**  
(8 marks)  
Johnsy could not get better despite the doctor and her friend Sue's ministrations. Describe the negative feeling that keep one ailing and also the values which remove such feelings and Infuse a person with a desire to live.  

**OR**  
How does the behaviour of the child before and after his separation from the parents show that he has great love for his parents?
General Instructions:
1. The Marking Scheme provides general guidelines to reduce subjectivity and maintain uniformity. The answer given in the marking scheme are the best suggested answers.
2. Marking be done as per the instructions provided in the marking scheme. (It should not be done according to one's own interpretation or any other consideration).
3. Alternative methods be accepted. Proportional marks be awarded.
4. If a question is attempted twice and the candidate has not crossed any answer, only first attempt be evaluated and 'EXTRA' be written with the second attempt.
5. In case where no answers are given or answers are found wrong in this Marking Scheme, correct answers may be found and used for valuation purpose.

SECTION - A (Reading : 20 Marks)

Q.1. i. a retired civil engineer 1X8=8
   ii. cold desert
   iii. Ladakh is a cold desert at 3000-3500 meters, annual rainfall rate of 50mm
   iv. climate change
   v. Glaciers provide water in the months of April/May which is crucial for irrigation
   vi. Glaciers and their layers close to the village melt and provide water
   vii. 2015
   viii. 3-4 months
   ix. Accumulation

Q2

2.1 2X4=8
   i. feelings, emotions, and dreams; meant to grow; flourishing and trying to make our dreams come true is great when life is going our way
   ii. If you have a tendency to persevere and keep going then you have what experts call grit.
iii. Failing teaches how to be perseverant and keep going for one's goals. Each failure makes one understand what to do and what not to do.

iv. Do not accept defeat; effort to overcome limitations; not to stay down.

v. Mindfulness is a practice that helps the individual stay in the moment by bringing awareness of his or her experience without judgement. This practice is a technique that many have used to quiet the noise of their fears and doubts.

2.2

i. 1000 plus

ii. human

iii. Persevere

iv. agonising

v. Mindfulness

SECTION C WRITING AND GRAMMAR SECTION (30 MARKS)

Q. 3 LETTER WRITING 8 MARKS

FORMAT 1 Mark

CONTENT 4 Marks

ACCURACY 1.5 Marks

FLUENCY 1.5 Marks

Q. 4 STORY WRITING 10 Marks

TITLE

CONTENT 4 Marks

ACCURACY 2.5 Marks

FLUENCY 2.5 Marks

Q. 5 GAP FILLING 1 x 4 = 4 Marks

a) (i) in

b) (ii) is

c) (iv) but

d) (iv) finds

e) (iii) catching

Q6. EDITING 4 marks

Incorrect Correct

(a) a the

(b) or and
Q7  SENTENCE RE-ORDERING  4 MARKS
a) Millions tons of plastic enters the ocean every year.
b) Sightings of junk filled waters are common.
c) Middle — class population is increasing along coastlines.
d) Lack of waste management has led to increase in trash.
e) My close friends like helping others.

SECTION-C LITERATURE (30 Marks)

Q8  1X4=4MARKS
A. Evelyn was deaf and dumb
B. Her mother
C. When her mother called she did not move.
D. This line means that when Evelyn was called, she didn't respond

OR

i. The Swallow did what he was told to by the Prince. It was to help the young playwright.
ii. He was so tired of hunger and cold that he was unconscious of the bird's presence.
iii. Beautiful sapphire lying on the withered violets.
iv. Faded

Q9.  (1 for content)
(1 for grammatical accuracy)
I. A barber decided to improve the tonal quality of the 'pungi'. After improving the body of the pipe he played the instrument before royalty and everyone was impressed.  (2)
II. One enjoys a blissful warmth of a cozy bed and listen to the rain's music.  (2)
III. Leaden heart of the Prince broke with dreadful curious cracking sound due to grief and shock.  (2)
IV. When arrested by servants of the king to be executed as he fitted the new stake.
V. Santosh got to spend some time witnessing the wonderful nature around the Aravali Hills. she used to watch the villagers going up the hills and then suddenly vanishing. it inspired her to explore the
hills. She met the Mountaineering group. The mountaineers allowed her to join them and encourage her to take up climbing.

Q.10

8marks

(4 for Content + 2 for Fluency + 2 for Grammatical Accuracy)

– Live a contented life,
– Best quoted phrase is 'Honesty is the best policy'
– Simple living and high thinking,
– we should not run after materialistic world
– we must not think beyond our limits.

OR

– Maria Sharapova had to pay a price to reach the to reach the top
– The Tennis excellence came only at a price the world of tennis was highly competitive
– Little Mario was not even 10 when she was packed off to a train in the United States
– That trip to Florida with her father Uri put her on the path to success and stardom
– She also got a heart wrenching separation from her mother for 2 years
– Her senior pupils insulted her and make her work hard
– She learnt how to take care of herself
– She continued pursuing her dream she won the women’s single Crown at Wimbledon in 2004
– The greatest honour came to her in 2005 she goes to the world number one in the following year

Q.11.

8MARKS

(4 for Content + 2 for Fluency + 2 for Grammatical Accuracy)

– Johnsy was suffering from pneumonia went into depression
– Her long treatment made her think that she would not survive
– From the window of a room she could see a creeper which was gradually shedding its leaves
– Despair set in making her imagine the worst
– She started associating her life with the leaves
– each day she counted the leaves and decided that the day the last leaf would shed, she too would die
– She lost her will to recover and stopped responding to the treatment
– She became convinced for an impending death
It reveals how a negative state of mind can block hope and recovery

When German painted relief of the creeper which did not fall in spite of the storm its give her hope

Hope replaced negative thoughts by positive ones. It revived her will to live. She started responding to the treatment

OR

The child look happy when I entered th the fair.

He was fascinated by all the things he saw, like garland of gulmohar, balloons, sweets

The child key to keen interest in the music played by the snake charmer

When he was separated from his parents, his mood was totally different.

He was filled with fear and restlessness. Tears started rolling down his cheeks. A kind hearted man lifted him up.

He took him to the roundabout and offered him other things but the child had no interest in all these things.

He wanted to go back to his parents

Thus, his behaviour shows that he had great love for his parents