SECTION A-READING (20 Marks)

Read the passage given below and answer the questions that follow: 12 marks

1. The defense mechanism of human body is a gift of nature provided to human beings. The power of our body to fight against various disease-producing agents is known as defensive mechanism. This defensive mechanism depends upon various factors which can be categorized mainly into two types: common factors and special factors.

2. Amongst the common factors, the most important is the health of human beings. We all know if we are having a good health, our body automatically remains protected against diseases. For keeping good health one should have nutritious balanced diet. A balanced diet is that which contains carbohydrates, fat, proteins, vitamins in proportionate amount.

3. The skin of our body saves us against many micro-organisms producing diseases, provided that it is intact. In case there are cuts or abrasions on it, the micro organisms penetrate the body through those cuts and abrasions and can cause diseases. Therefore, a cut or an abrasion should never be left open. In case there is no bandage, etc available, it may be covered with a clean cloth.

4. Some bacteria are residing on and inside the human body. They are our friends and are useful for us. They do not cause any disease and by their presence they do not allow disease-causing organisms to settle on these places. For example, the micro-organisms, present in human saliva secrete a chemical which does not allow diphtheria causing bacteria to grow inside the oral cavity.
5. The human body secretes a variety of fluids, which are killers for disease causing micro-organisms. For example, gastric juice (acidic in nature) secreted by our intestinal tract kills all organisms which enter our body through food.

6. There are a few automatic activities of body known as ‘reflex phenomenon’ which protect the body against many infections. This reflex phenomenon includes sneezing, coughing and vomiting.

7. Fever is one of the most important constituents of the defensive mechanism of our body. The organ which regulates the temperature of our body is known as hypothalamus and it is situated in the brain. When microorganisms after entering the body release toxic products and these reach the brain through blood, the hypothalamus starts increasing the temperature of the body. The person then gets fever. This fever is very useful for the human body because by the increase of temperature the micro-organisms which are the root cause of the problem get killed.

8. We are living in an environment which is full of bacteria. Many of these bacteria can produce serious diseases, but all of us do not suffer from such diseases. It is due to a special power present in our body to fight these diseases. A part of this special power of our body is known as innate immunity. This is inherited by us. The other part of this special power is called acquired immunity. This we gain during our lifetime.

9. In a nutshell, we can say that since nature has provided us with defensive mechanism to fight against so many diseases, let us maintain it and increase it by the way of immunization.

(I) On the basis of your understanding the passage, answer the following questions by choosing the most appropriate option: (1x4=4Marks)

1. One should have nutritious balanced diet because

a. it has food items of various tastes  
b. it is recommended by a dietician  
c. it keeps one healthy  
d. it has all essential items

2. The defense mechanism of a body is important as

a. it protects us from diseases  
b. it checks deterioration of body  
c. it saves us from depression  
d. it builds up the wear and tear
3. In order to check the micro-organisms penetration in the human body
   a. we must cover the whole body
   b. we must rub insect repelling oil
   c. we must use antiseptic solutions
   d. we should keep cuts and abrasions covered

4. Gastric juice secreted by our intestinal tract kills all extraneous organisms as
   a. it flows very fast
   b. it is acidic in nature
   c. it prevents their multiplication
   d. it is a natural stimulant

(II) Answer the questions briefly. (1x6=6Marks)

5. Why should a cut or abrasion never be left open?
6. What is defense mechanism?
7. What is reflex phenomenon? Name a few reflex phenomenon.
8. Why is fever one of the most important constituent of the defensive mechanism of our body?
9. What is innate immunity?
10. How can we increase our defensive mechanism?

(III) Pick out word from the passage which are similar in meaning to the following: (2 Marks)

a. A scraped spot or area (para 3)
b. Poisonous (para 7)

2. Read the following passage very carefully: 8 marks

Every living creature has a time machine that regulates activities. It tells man or animal when to wake up, when to sleep, when to slow down physiological activities; regulating the body temperature and release of specific hormones at the proper time. A few call it biological clock while others refer to it as circadian (circa, about, dian, day) clock. ITS study is known as chronobiology.
The human body clock completes its cycle over a period of about 24 hours. In the normal circumstances activities of nerve cells drive the clock. In day-to-day life, one never experiences the rhythms of this state because the clock is always influenced by time cues in the environment.

These cues called “zeitgebers” (a German word meaning “time givers”), synchronise the clock with the solar cycle. Daylight, physical activity, diet and social behaviours are the well known zeitgebers. How they influence the clock is still unknown, but it is certain that all cues are interdependent. For example, regular cycle of sleep and activity affects the time we eat, social interaction and even exposure to day light.

To prove that humans possess an internal, self-sustaining clock and do not simply adjust their behaviour in response to environmental time cues, it was essential to create a “time-free” environment. The first experiments of this kind were carried out in late 1970s and early 1980s by groups in Europe and the US. During the experiment, which continued for months, the person chooses when he or she eats and sleeps, but no information is given about time – no TV, no social contacts and no clock. It soon emerged that people placed in such an environment do not slip into random habits but maintain a routine, powerful evidence for the existence of an internal body clock in men. All the subjects in the experiments, regardless of whether they were interested in what they were doing, tended to wake up at regular intervals.

Every person has an alarm clock fitted in the mind. Give it a try. Think and set a time in your brain before you go off to sleep. To your assignment brain will transmit signals and you will wake up at the required time. Our biological clock is set accordingly and that’s the reason that counselors suggest students not to disturb their clock during exams as it disturbs the whole metabolism. The 24-hr body clock should start at the regular time to have optimum performance during exams. If we are regular and keep our routine under check we hardly need reminders for day-to-day activities. We need not see the clock for our lunch, dinner or other times.

A. On the basis of your reading of the above passage make notes on it, using headings and sub-headings. Use abbreviations (wherever necessary-minimum 4) and a format you consider suitable. Also supply an appropriate title to it. (5 Marks)

B. Make a summary of the above passage in not more than 80 words using the notes made. (3 MARKS)

C. SECTION B WRITING SKILLS AND GRAMMAR (30 MARKS)

3. As the librarian of Happy Public School, New Delhi, draft a notice informing students of the penalty for losing or damaging the books issued to them. (4 Marks)

4. You are Supriya Mathur of 26/18 Moti Bagh-1, New Delhi. Write a letter to the editor of Times of India, New Delhi about the misuse and poor maintenance of the public parks in your area. (6MARKS)

5. Write an article in about 200 words on “The Role of Youth in National Development". You are Shivan/Shalini. (10 Marks)
6. The following passage has not been edited. There is an error in each line. Locate the error and write it. (1/2*6=3 MARKS)
Most people thinks that dieting
means eat duel, bland monotonous
foods like boil vegetables, porridge
soup etc. And it is not so.
There are a wide range of lower
calorie dishes who are delicious
and healthy at the same time.

7. Fill in the blanks using only one word in each blank. Write your answers in the answer sheet against the correct blank number. (1/2 *6=3 MARKS)
Exercise is (a) ______________ key to good health. Most people think (b) ____________
that they must go to fashionable gyms (c) ________________ work out to remain fit and healthy.(d) ________________ follow strict diet to keep a check on (e) ____________
weight. But in reality walking (f) ________________ yoga are the best ways to remain fit and healthy.

8. Rearrange the following sentences to form meaningful sentences. (1*4=4 Marks)
   a) high/ blood/ many/ pressure/ be/ there/ can/ causes/ for.
   b) to/ consult/determine/doctor/ important/ is/ the /it/ to /cause/a.
   c) advice/ his/ seek/ and/ required/ medication/ on/ lifestyle/ in /change
   d) too/ diet/ balanced/ a/ essential/ very/ is.

SECTION C: TEXT BOOKS AND LONG READING TEXT (30 MARKS)

9. Read the following lines and answer the questions that follow:(3*1=3 MARKS)
They talked of love and preached of love,
But did not act so lovingly,
Was that the day?
   a) Who are they?
      i) Adults
      ii) Children
      iii) Geography teacher
      iv) God
   b) Name the poet
      i Elizebeth Jennings
      ii) Vikram Seth
      iii) Marcus Natten
      iv) Shirely Toulson
c) Which is the “day” that the poet talks of?
   i) The day he started learning geography
   ii) The day he started thinking independently
   iii) The day he lost his childhood
   iv) None of the above

**Answer the following in about 30-40 words (3*3=6 Marks)**

10. Why has Amenhotep IV’s reign been described as one of the strangest periods in the history of ancient Egypt?

11. Describe the homecoming of Ranga. Why was it a ‘great event’ in the village?

12. How did the sparrows express their sorrow when the author’s grandmother died?

13. In the words of the captain of ‘Wavewalker’, the crew was ‘cheerful and optimistic under direst stress’ and was able to bring the ship out of crisis. James Branch Cabell, the American novelist and essayist, says, “The optimist proclaims that we live in the best of worlds; and the pessimist fears this is true.

   Write an article in about 100 words showing how optimism is infinitely preferable to pessimism. (6 Marks)

14. Describe the first encounter of the ghost with the Otis family. (6 MARKS)

15. Describe the Otis family (6 MARKS)