

R.E.D. Group of Schools

Entrance Test– (2017–18)

Class – XI

Time : 30 Min.

Subject - English

M.M. 20

General Instructions.

- *All the questions are compulsory.*
- *Use of calculator or mobile is not allowed in the exam.*

Section - A (Reading Skill)

Q.1 Read the following passage carefully and answer the questions that follow.

5×1=5

Health is Wealth ! People have been conscious of maintaining a healthy body and keeping fit. The present generation is going through a lot of stress, tension and competition in their personal and professional lives. Many of us try to follow a regular exercise regime, but sometimes diet is not taken care of or vice versa. And many of us are working in offices, which results in sitting and working for long hours. Thus it leads to lack of physical activity and thus we tend to put on weight. Also we travel by our own vehicles to our places of work. And most of the home makers also have the latest gadgets at home or they employ maids to do the routine house work. I have tried to plan my diet, eating at the right time. I eat non-vegetarian only once in a week, try to eat green vegetables, leafy vegetables, pulses, chappatis and very less rice. I try to avoid deeply fried foodstuffs and also too many snacks. Instead I try to drink fresh fruit juices, eat fresh fruits, salads and avoid sweets. Then I make it a point to avoid tea and coffee. Instead I try to drink milk and eat curd daily.

On the basis of your reading of the above text, complete the following statements by choosing the most appropriate option from the ones given against each :

- | | |
|--|------------------------|
| (a) The present generation has been going through | |
| (i) stress | (ii) tension |
| (iii) competition | (iv) all the above |
| (b) The main reason for putting on weight is | |
| (i) food | (ii) drinks |
| (iii) lack of exercise | (iv) lack of knowledge |
| (c) The author avoids in his diet | |
| (i) fresh fruit juice | (ii) deeply fried food |
| (iii) fresh fruit | (iv) salads |
| (d) The author has replaced tea and coffee with | |
| (i) milk and curd | (ii) beer and wine |
| (iii) water and lemon | (iv) leafy vegetables |
| (e) The word in the passage which means the same as strain or pressure is : | |
| (i) vice versa | (ii) stress |
| (iii) regime | (iv) gadgets |

Section - B (Writing Skill)

Q.2 You are Sakshi / Rajat. You want to take admission in one of the best schools in Shimla. You scored the highest marks in the entrance test yet were denied admission. The seat was offered to the candidate who paid ` one lakh as “Donation”. Write an article in about 120 words with the help of following clues : - corruption seen in every field - diminishing the moral traditional values - leads to frustration - encourage wrong cultural traits and bad habits.

Section - C (Grammar)

- Q. 3 **Change the voice :** 3×1=3
- (a) We admire him.
 - (b) They do not grow rice.
 - (c) They like you.
- Q.4 **Fill in the blanks with appropriate tense :** 3×1=3
- (a) The train had left before I the station. (reach)
 - (b) He (watch) T.V. since morning.
 - (c) My uncle (come) to meet me yesterday.
- Q.5 **Transform the following words into noun :** 2×1=2
- (a) Happy
 - (b) Admit

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-
- Q.1 For what value of k , -2 is a root of the equation $3x^2 + 4x + 2k = 0$? 2
- Q.2 If angle between two tangents drawn from a point P to a circle of radius ' a cm' and centre O is 60° , then find OP . 3
- Q.3 The wheels of a car are of diameter 80 cm each. How many complete revolutions does each wheel make in 10 minutes when the car is travelling at a speed of 66 km/h? 3
- Q.4 Three metallic solid cubes whose edges are 3 cm, 4 cm and 5 cm are melted and formed into a single cube. Find the surface area of the cube so formed. 3
- Q.5 If the points $A (-2, 1)$, $B (a, b)$ and $C (4, -1)$ are collinear and $a-b = 1$, find the value of a and b . 3
- Q.6 Two dice are thrown at the same time. Find the probability of getting:
(i) same number on both dice.
(ii) different numbers on both dice. 3
- Q.7 The shadow of a tower standing on a levelled plane is found to be 50 m longer when Sun's elevation is 30° than when it was 60° . Find the height of the tower. 3

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Entrance Test - (Session : 2017-18)

Class : XI

Time :30 Min.

Subject - Science & Technology

M.M. 20

Student Name _____

Roll No. _____

Sec. _____

1. Why are variations beneficial for the species not for an individual? 1
2. Draw electron dot structure of C_2H_6 . 1
3. What are soaps? 1
4. How would you differentiate between saturated and unsaturated hydrocarbons? 2
5. State the law of reflection of light. 2
6. What is shortsightedness? How it can be corrected? 2
7. Write down the characteristics of image formed by a plane mirror. 2
8. An object is placed at a distance of 20 cm in front of a convex lens of focal length 10 cm. What is the nature, position and size of the image formed? 3
9. Differentiate between Mendeleev's periodic table and modern periodic table. 3
10. State and explain any 3 reasons why carbon has a large number of compounds? 3

End of Paper

R.E.D. Group of Schools

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M.M. 20

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