

I. Choose the correct synonym for the underlined word: 2x1=2

1. The teacher complimented the boy who had asked that absurd question.

- a) clever                      b) silly                      c) wise

2. Senior students used to go to his dingy house.

- a) dark and dirty place    b) bright place    c) attractive place

II. Choose the correct Antonym for the underlined word: 2x1=2

3. Unkempt and uncouth he would visit offices.

- a) bright                      b) neat                      c) not neat

4. His father was a significant clerk in a cloth shop.

- a) trivial                      b) important                      c) senior

III. Answer any three of the following questions in two or three sentences: 3x2=6

5. What did the Indian Mathematician Bhaskara prove?

6. What disappointed Ramanujan's father?

7. Where did Ramanujan do his mathematical problems?

8. Which university granted him a fellowship of ₹75 a month?

9. Why was Ramanujan sent back to India?

IV. Quote from Memory: 1x4=4

From: Faster.....

To: ..... strong.

V. Read the following lines and answer the questions that follow: 2x2=4

10. In the dust they leave behind,  
could have started life on the earth  
which resulted in mankind.

a) What does the word 'they' refer to?

b) According to scientists, how did life start on earth?

11. If one should come too close to earth

The atmosphere will shake,

With shockwave reaching to the ground

causing the land to quake

a) Pick out the rhyming words

b) Mention the rhyme scheme of the stanza

VI. Convert the following active sentences into passive sentences

by giving an appropriate passive verb form: 2x1=2

12. A friend of mine is repairing the car/The car \_\_\_\_\_

by a friend of mine.

a) is repairing                      b) is repaired    c) is being repaired

13. Begin the work tomorrow/Let the work \_\_\_\_\_ tomorrow.

a) be begun                      b) begin                      c) is beginning

VII. Complete the following sentences using appropriate connector from the bracket: 1X1=1

14. The man has much money \_\_\_\_\_ he isn't happy

at all (however, therefore, although)

VIII. Answer the following questions in a paragraph: 1x4=4

15. a) Describe the life of Srinivasa Ramanujan in India.

(or)

b) Narrate how the poet describes the Comet

I. Choose the correct answer: 4x1=4

1. SI unit of temperature is \_\_\_\_\_.  
a) Fahrenheit b) Joule c) Celsius d) Kelvin
2. Carbon forms large number of organic compounds due to \_\_\_\_\_.  
a) Allotropy b) Isomerism c) Tetravalency d) Catenation
3. One of the means of indirect transmission of a disease is \_\_\_\_\_.  
a) Sneezing b) Coughing c) Vectors d) Droplet infection
4. Diphtheria affects the \_\_\_\_\_.  
a) lungs b) throat c) blood d) liver

II. Answer the following: 2x3=6

Part - A (any one)

5. Define thermal capacity
6. An Iron ball requires 5000J heat energy to raise its temperature by 20K. Calculate the heat capacity of the Iron ball.

Part - B (answer any one)

7. Differentiate between graphite and diamond
8. Define Allotropy.

Part - C (answer any one)

Match the following:

9. a) Swine flu - Human Papilloma Virus  
b) Genital Warts - Human Immunodeficiency Virus  
c) AIDS - Mycobacterium  
d) Tuberculosis - Influenza Virus H,N

10. Distinguish between Virion and Viroid

III. Answer the following in detail: 3x5=15

Part - A

11. a) What are the changes of state in water? Explain  
(or)

b) Explain convection in daily life.

Part - B

12. a) What is catenation? How does carbon form catenated compounds?  
(or)

b) What are the chemical reactions of carbon?

Part - C

13. a) Give an account of classification of bacteria based on the shape.  
(or)

b) Explain the various types of viruses with examples.