



# 18<sup>th</sup> NTST

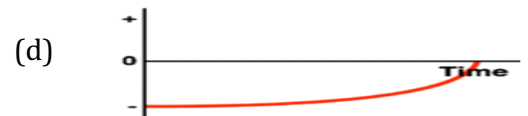
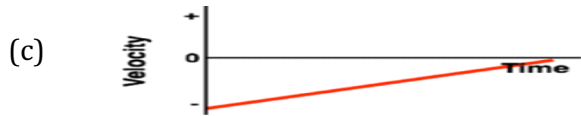
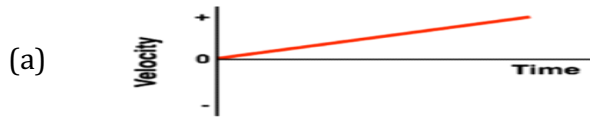
## NATIONAL TALENT SEARCH TEST (SAMPLE PAPER CLASS-9TH)



### SCIENCE

- Q.1 The law of definite proportions was given by:
- (a) John Dalton (b) Humphry Davy  
(c) Proust (d) Michael Faraday
- Q.2 Which of the following element has one electron in the K shell, but it is a non-metal
- (a) Lithium (b) Hydrogen  
(c) Carbon (d) Boron
- Q.3 Living cells were discovered by
- (a) Robert Hooke (b) Purkinje  
(c) Leeuwenhoek (d) Robert Brown
- Q.4 The process by which water moves through a semi-permeable membrane from a region of high concentration to a region of lower concentration, thereby equalizing water concentration is called:
- (a) Evaporation (b) Diffusion  
(c) Osmosis (d) All of the above
- Q.5 Complete the series  
Gasoline: homogeneous; \_\_\_\_\_: heterogeneous
- (a) Alcohol (b) Vinegar  
(c) Seawater (d) Steel
- Q.6 Out of the following which substance which does not go under sublimation?
- (a) Camphor (b) Iodine  
(c) Sand (d) Dry ice
- Q.7 Choose the correct option?
- (a) Distance is a scalar, velocity is a vector, and acceleration is a vector.  
(b) Distance is a vector, velocity is a scalar, and acceleration is a vector.  
(c) Distance is a vector, velocity is a vector, and acceleration is a vector.  
(d) Distance is a scalar, velocity is a vector, and acceleration is a scalar.

Q.8 The velocity-time graphs represent the motion of four different objects. Identify any object that is moving in the + direction and speeding up.



Q.9 Rishi has a cricket ball and a tennis ball .Both balls are thrown with the same velocity, which of the following statement is correct

- (a) Cricket ball has momentum equal to the momentum of a tennis ball
- (b) The force required to stop a cricket ball less than a tennis ball
- (c) Tennis ball has more momentum than a cricket ball
- (d) Cricket ball has more momentum than a tennis ball

Q.10 The Earth attracts the moon with a gravitational force of 10-20N. The moon attracts the earth with a gravitational force of

- (a) Less than 10-20N
- (b) 10-20N
- (c) Greater than 10-20N
- (d) None

## MATH

Q.1 Two sides of a triangle are of lengths 6 cm and 2.5 cm. The length of the third side of the triangle cannot be

- (a) 3.4 cm
- (b) 3.6 cm
- (c) 3.8 cm
- (d) 4.1 cm

Q.2 The angles of quadrilateral are in the ratio 15:10:8:3. The angles are:

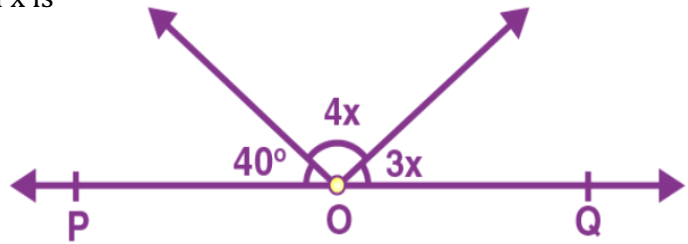
- (a)  $36^\circ, 60^\circ, 108^\circ, 156^\circ$
- (b)  $48^\circ, 60^\circ, 120^\circ, 132^\circ$
- (c)  $150^\circ, 100^\circ, 80^\circ, 30^\circ$
- (d)  $60^\circ, 60^\circ, 120^\circ, 120^\circ$

Q.3 Which of these statements do not satisfy Euclid's axiom?

- (a) Things which are equal to the same thing are equal to one another
- (b) If equals are added to equals, the wholes are equal.
- (c) If equals are subtracted from equals, the remainders are equal.
- (d) The whole is lesser than the part.

Q.4 In the given figure, POQ is a line. The value of x is

- (a) 20
- (b) 25
- (c) 30
- (d) 35



Q.5 One angle of a triangle is  $75^\circ$ . If the difference of the other two angles of a triangle is  $35^\circ$ , then the biggest angle of the other two angles are

- (a)  $80^\circ$
- (b)  $75^\circ$
- (c)  $70^\circ$
- (d)  $135^\circ$

Q.6 The longest chord of the circle is:

- (a) Radius
- (b) Arc
- (c) Diameter
- (d) Segment

Q.7 In between any two numbers there are:

- (a) Only one rational number
- (b) five rational numbers
- (c) Infinite rational numbers
- (d) No rational number

Q.8 Which of the following is an example of the quadratic polynomial?

- (a)  $4X + 2$
- (b)  $5X^2 + 3X - 7$
- (c)  $X + 3X^3 - 9$
- (d) None of the above

Q.9 Which of the following is not a measure of central tendency?

- (a) Standard deviation
- (b) Mean
- (c) Median
- (d) Mode

Q.10 Three angles of a quadrilateral are  $60^\circ$ ,  $105^\circ$  and  $65^\circ$ . The fourth angle is

- (a)  $90^\circ$
- (b)  $105^\circ$
- (c)  $120^\circ$
- (d)  $130^\circ$

## English

**Question No. 1 to 4 are based on the given text. Read the text carefully and answer the questions:**

In our approach to life, be it pragmatic or otherwise a basic fact that confronts us squarely and unmistakably is the desire for peace, security and happiness. Different forms of life at different levels of existence make up the teeming denizens of this Earth of ours. And no matter whether they belong to the higher groups such as human beings or to the lower groups such as animals, all beings primarily seek peace, comfort and security. Life is as dear to a mute creature as it is to a man. Even the lowliest insect strives for protection against dangers that threaten its life. Just as each, one of us wants to live and not to die, so do all other creatures.

- Q.1 The author's main point is that  
 A) different forms of life are found on Earth  
 B) peace and security are the chief goals of all living beings  
 C) even the weakest creature struggles to preserve its life  
 D) different levels of existence are possible
- Q.2 How is life of a mute creature?  
 A) It is as dear as a man itself  
 B) Cannot be forecast  
 C) It is comfortable  
 D) They are ignorant
- Q.3 According to the passage, the higher groups are mentioned as  
 A) under threaten  
 B) all the animals  
 C) mute like insects  
 D) all human beings
- Q.4 Who does want to die?  
 A) Human beings  
 B) Happiness, peace  
 C) Lower groups of animals  
 D) None of us and all other creature
- Q.5 Choose correct option.  
 Neither Hannah nor her sisters \_\_\_\_\_ been to the movie.  
 A) have  
 B) having  
 C) has  
 D) are
- Q.6 When he heard that he had once again not been selected he lost heart.  
 Choose correct option.  
 A) become desperate  
 B) become angry  
 C) felt sad  
 D) become discouraged
- Q.7 Choose the correct meaning of the following.  
 To cry wolf  
 A) to listen eagerly  
 B) to turn pale  
 C) to give false alarm  
 D) to keep off starvation
- Q.8 Choose the correct option.  
 How many cups of tea \_\_\_\_\_ yesterday?  
 A) did you drink  
 B) you have drank  
 C) do you drink  
 D) you were drinking
- Q.9 Choose the correct option.  
 The boy laughed at the beggar.  
 A) The beggar was being laughed by the boy.  
 B) The beggar was laughed by the boy.  
 C) The beggar was being laughed at by the boy.  
 D) The beggar was laughed at by the boy.
- Q.10 Choose the correct option for the jumbled words.  
 the class/ at once/ ordered/ you/ are/ to leave.  
 A) The clan at once ordered you are to leave.  
 B) You at once are to leave the class ordered.  
 C) At once you are ordered to leave the clan.  
 D) You are ordered to leave the class at once.

# Computer Science

- Q1) Which of the following is Microsoft office package in DBMS?  
A) MS-Word  
B) MS-Excel  
C) MS-Powerpoint  
D) MS-Access
- Q2) Wired Media is also known as  
A) Target Media  
B) Directed Media  
C) Guided Media  
D) Unaided Media
- Q3) The files that are created with Spreadsheet software are called  
A) Package  
B) Program  
C) Worksheet  
D) Spreadsheet
- Q4) Servers are computers that provide resources to other computers connected to a  
A) Client  
B) Mainframe  
C) Supercomputer  
D) Network
- Q5) Computers connected to central device hub is called \_\_\_\_\_ topology.  
A) Bus  
B) Ring  
C) Star  
D) Tree