



18th NTST

NATIONAL TALENT SEARCH TEST (SAMPLE PAPER CLASS-10TH)



SCIENCE

- Q.1 A white salt on heating decomposes to give brown fumes and a residue is left behind. This white salt is a
- (a) Magnesium (b) Zinc
(c) Lead nitrate (d) Sodium chloride
- Q.2 In a double displacement reaction such as the reaction between sodium sulphate solution and barium chloride solution:
- (i) Exchange of atoms takes place (ii) Exchange of ions takes place
(iii) A precipitate is produced (iv) An insoluble salt is produced
- The correct option is
- (a) (ii) and (iv) (b) (i) and (iii)
(c) Only (i) (d) (ii), (iii) and (iv)
- Q.3 In the list of organisms given below, those that reproduce by the asexual method
- (i) Banana (ii) Dog (iii) Yeast (iv) Amoeba
- (a) (ii) and (iv) (b) (i), (iii) and (iv)
(c) (i) and (iv) (d) (ii), (iii) and (iv)
- Q.4 Which organ enables the developing foetus to obtain nourishment from the mother's blood?
- (a) Fallopian tube (b) Placenta
(c) Graffian follicles (d) Leydig cells
- Q.5 Which one of the following human organs is often called the "graveyard of RBCs"?
- (a) Kidney (b) spleen
(c) Liver (d) Gall bladder
- Q.6 Madhav is undergoing prolonged fasting; his urine will be found to contain abnormal quantities of
- (a) Fats (b) Amino acids
(c) Glucose (d) Ketones
- Q.7 The normal range of blood pressure in a human being is –
- (a) 120/80 mm Hg (b) 120/90 mm Hg
(c) 160/80 mm Hg (d) 130/90 mm Hg
- Q.8 Which of the following is correct?
- (a) Lymph = Plasma + RBC + WBC (b) Plasma = Blood – Lymphocytes
(c) Blood = Plasma + RBC + WB (d) Serum = Blood + Fibrinogen

- Q.9 William Harvey is credited with the discovery of
- (a) Blood clotting (b) Blood circulation
(c) Process of digestion (d) Mechanism of respiration
- Q.10 Extraction of zinc from zinc blende is achieved by
- (a) Electrolytic reduction
(b) Roasting followed by reduction with carbon
(c) Roasting followed by reduction with another metal
(d) Roasting followed by self-reduction

MATH

- Q.1 The zeroes of the quadratic polynomial $x^2 + 10x + 24$ are
- (a) -4, -5 (b) 4, 6
(c) -4, -6 (d) -4, 6
- Q.2 The degree of the polynomial, $x^{10} - x^8 + 2x$ is
- (a) 8 (b) 10
(c) 1 (d) 0
- Q.3 Quadratic equation, graphically is represented by a
- (a) Parabola (b) Hyperbola
(c) Linear (d) Zig-Zag
- Q.4 If $-\frac{2}{3}$ is a root of the equation $kx^2 - 13x - 10 = 0$, the value of k is
- (a) 1 (b) 2
(c) 3 (d) 4
- Q.5 The midpoint of a line segment joining two points A (5, 8) and B (-5, -8) is
- (a) (-2, 4) (b) (2, -4)
(c) (0, 0) (d) (-2, -4)
- Q.6 The distance of a point from the Y axis is called
- (a) Ordinate (b) Abscissa
(c) Both (a) and (b) (d) None

- Q.7 An event is very unlikely to happen. Its probability is closest to
 (a) 0.0001 (b) 0.001
 (c) 0.01 (d) 0.1
- Q.8 The largest number that divides 90 and 120, which leaves the remainders 10 and 8, is:
 (a) 16 (b) 15
 (c) 13 (d) 25
- Q.9 If $\text{HCF}(18, 52) = 2$, then $\text{LCM}(18, 52) =$
 (a) 26 (b) 52
 (c) 468 (d) 13
- Q.10 The value of $\tan 45^\circ / \cot 90^\circ$ is equal to:
 (a) $\cos 0^\circ$ (b) $\sin 90^\circ$
 (c) $\text{cosec } 30^\circ$ (d) $\tan 90^\circ$

English

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

One of the major crises facing the country is the looming water shortage. A recent report of the UN has named India among the worst countries for poor quality of water. The report ranks 122 countries according to the quality of their water as well as their ability and commitment to improve the situation. Belgium is considered the worst basically because of the quality of its ground water. Rains failed in most parts of India last year and the vast areas of Rajasthan, Madhya Pradesh, Andhra and Odisha were in the grip of devastating drought. People without water turn desperate and violent. Villagers in Rajasthan last year attacked the Food Corporation godowns. Worse may be coming. With man refusing to control pollution (America, the world's greatest polluter, refuses to co - operate with, other countries) the world's getting hotter. This means that the great ice shelves (weighing billions of tonnes) of the Antarctic are collapsing. We cannot even conceptualise the dangerous consequences.

- Q. 1 Belgium is suffering acutely because
 A) the discharge of industrial effluents
 B) the sluggish pace of its economy
 C) quality of its ground water
 D) rising cost of living
- Q.2 Villagers in Rajasthan attacked Food Corporation godowns because of
 A) low prices offered to them for wheat
 B) no financial help from the government bodies
 C) shortage of water
 D) refusal of Food Corporation to buy wheat from the local farmers
- Q.3 What major crisis is the country facing today?
 A) Violent (b) Water shortage
 C) Rainfall (d) Drought
- Q.4 The world's greatest polluter country is
 A) America (b) Russia
 C) India (d) Belgium

- Q.5 The doctor advised me to _____ drinking.
- A) give out
B) give up
C) give back
D) give over
- Q.6 Which of the following is relative pronoun?
- A) his
B) which
C) whether
D) myself
- Q.7 Which of the following word is an adverb?
- A) anxious
B) authority
C) well
D) none of the following
- Q.8 Choose the correct option.
In _____ afternoon _____ wind increased and they soon found themselves in _____ difficulties.
- A) the / the/ no article
B) an/ a/ the
C) no article/ the/ no article
D) the/ the/ a
- Q.9 Identify the sentence with correct punctuation.
- (A) She said, "I can't come today".
(B) She said "I can't come today."
(C) She said 'I can't come today'.
(D) She said, 'I can't come today.'
- Q.10 Select the synonym for the given word. "avert"
- A) face
B) permit
C) confront
D) prevent

Computer Science

- Q1) The origin of the internet was developed from the concept of
- a) Microsoft
b) IBM
c) ARPANET
d) Web
- Q2) What is an operating system?
- a) interface between the hardware and application programs
b) collection of programs that manages hardware resources
c) system service provider to the application programs
d) all of the mentioned
- Q3) A hardware device that is capable of executing sequence of instruction is called:
- a) CU
b) CPU
c) Processor
d) ALU
- Q4) A computer cannot "boot" if it does not have the _____
- a) Compiler
b) Loader
c) Operating system
d) Assembler
- Q5) Storage capacity of magnetic disk depends on
- a) Disk pack in disk surface
b) Track per inch of surface
c) Bits per inch of track
d) All of above