National Level Science Talent Search Examination - 2012

Class: X

Mathematics

What is the value of 'sin θ ' if tan θ is $(-\frac{4}{3})$?

(A)
$$-\frac{4}{5}$$
 but not $\frac{4}{5}$

(B)
$$-\frac{4}{5}$$
 or $\frac{4}{5}$

(C)
$$\frac{4}{5}$$
 but not $-\frac{4}{5}$

(D)
$$\frac{5}{4}$$
 but not $-\frac{5}{4}$

2 Two isosceles triangles have their corresponding angles equal and their areas are in the ratio 25: 36. Find the ratio of their corresponding heights.

(D) 6:5

In an Arithmetic sequence of terms, S_n represents sum to n terms, then what is S_{n-1} ?

(A)
$$t_1 + t_2 + \underline{}_{n-1}$$

$$(B) S_{n-2}$$

(C)
$$\sum_{n=1}^{n-2} t_n$$

(D) t_n

4 Find the number X in the data given below.

I. The L.C.M of x and 18 is 36

II. The H.C.F of x and 18 is 2.

(A) 1

(B) 2

(C)3

(D) 4

What is the total number of integer pairs (x, y) satisfying the equation x + y = xy?

(A) 0

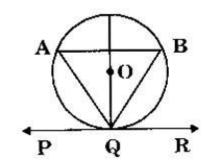
(B) 1

(C) 2

(D) 3



In the given figure, if PQR is the tangent to a circle at Q whose centre is O, AB is a chord parallel to PR and $\angle BQR = 70^{\circ}$, find the measure of $\angle AQB$.



(A) 70°

(B) 30°

 $(C) 35^{\circ}$

(D) 40°



If $x = 0.\overline{7}$, what is the value of 2x?

(A) 1.4

(B) $1.\bar{5}$

(C) $1.\overline{54}$

(D) 1.45



If the expression $x^2 - x + c$ when divided by (x + 1) leaves a remainder 3, then what is the value of c?

(A) 0

(B) 1

(C) 2

(D) 3



A well planned Lokhandwala complex in Mumbai has two straight roads perpendicular to each other. There are 5 lanes parallel to road 1. Each lane has 8 houses. Srinivas lives in the 6th house of the 5th lane and Alok lives in the 2nd house of the 2nd lane. What will be the shortest distance between their houses? (Take distance between each house as 1 unit.)

(A) 5 units

(B) 10 units (C) 15 units

(D) 20 units



If $\left(\frac{a}{3}, 4\right)$ is the midpoint of the line segment joining A (-6, 5) and B(-2, 3), then what is the value of 'a'?

(A) - 4

(B) - 12

(C) 12

(D) - 6



 \triangle ABC \approx \triangle DEF and the perimeters of \triangle ABC and \triangle DEF are 30 cm and 18 cm respectively. If BC = 9 cm, then measure of EF is:

(A) 6.3 cm

(B) 5.4 cm (C) 7.2 cm

(D) 4.5 cm

NOTES OF	NAMES INC.	0.023	320	
12	Find	the	value	0

$f = \frac{\sin(-660^{\circ})\tan(1050^{\circ})\sec(-420^{\circ})}{\cos(225^{\circ})\csc(315^{\circ})\cos(510^{\circ})}.$

$$(A) \frac{\sqrt{3}}{4}$$

(B)
$$\frac{\sqrt{3}}{2}$$

(C)
$$\frac{2}{\sqrt{3}}$$

(B)
$$\frac{\sqrt{3}}{2}$$
 (C) $\frac{2}{\sqrt{3}}$ (D) $\frac{4}{\sqrt{3}}$

13

What can you say about the graph of $y = x^2 - 12x + 40$?

- (A) Intersects X -axis at 1 point.
- (B) Intersects X-axis at 2 points.
- (C) intersects X-axis at 3 points.
- (D) Does not intersect at any point.

Find the sum of integers from 1 to 100 that are divisible by 2 or 5.

- (A) 3000
- (B) 3050
- (C) 4050
- (D) 5000



If there are n Arithmetic means between a & b then what is their common difference?

(A)
$$\frac{n-1}{b+2}$$
 (B) $\frac{b-a}{n+1}$ (C) $\frac{a-b}{n-1}$ (D) $\frac{b+a}{n-1}$

$$(B) \frac{b-a}{n+1}$$

$$(C) \frac{a-b}{n-1}$$

(D)
$$\frac{b+a}{n-1}$$



If the roots of $x^2-px+q=0$ are two consecutive integers, then find the value of p^2-4q .

(A) 1

- (B) 2
- (C)3
- (D) 4

Which of the following will have a terminating decimal expansion?

- (A) $\frac{77}{210}$ (B) $\frac{23}{30}$ (C) $\frac{125}{441}$
- (D) $\frac{23}{9}$

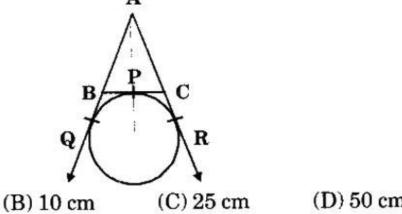
The sum of three non - zero prime numbers is 100. One of them exceeds the other by 36. Find the largest number.

(A) 73

- (B)91
- (C)67
- (D) 57

19	The string of a kite is 100 m long and it makes an angle of 60° with the horizontal. If there is no slack in the string, find the height of the kite from the ground.					
	(A) $50\sqrt{3}$ m	(B) $100\sqrt{3}$ m	(C) $50\sqrt{2}\mathrm{m}$	(D) 100 m		
20	A circle touc	hes the side BC	of ABC at I	and touches		

AB and AC produced at Q and R respectively. If AQ = 5 cm, then find the perimeter of $\triangle ABC$.



(A) 5 cm

(D) 50 cm

What is the maximum value of $2-4x-x^2$?

(A) 2

(B) 4

(C) 6

(D)8

Two poles of heights 6 metres and 11 metres stand vertically on a plane ground. If the distance between their feet is 12 metres, what will be the distance between their tops?

(A) 10 m

(B) 12 m

(C) 13 m

(D) 15 m

If p, q and r are the zeroes of the polynomial

 $f(x) = ax^3 + bx^2 + cx + d$, then the value of $\frac{1}{n} + \frac{1}{a} + \frac{1}{r}$ is

 $(A) = \frac{-b}{a}$

(B) $\frac{c}{a}$ (C) $-\frac{c}{d}$ (D) $\frac{c}{d}$

If $(\sin\alpha + \csc\alpha)^2 + (\cos\alpha + \sec\alpha)^2 = \tan^2\alpha + \cot^2\alpha + K$ then find K.

(A) 9

(B) 7

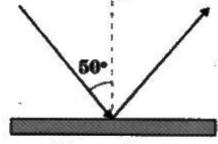
(C) 4

- E and F are points on the sides PQ and PR respectively of a \triangle PQR. In which of the following options is EF | | QR?
- (A) PE = 3.9 cm, EQ = 3 cm, PF = 3.6 cm, FR = 2.4 cm
- (B) PE = 4 cm, QE = 4.5 cm, PF = 8 cm, RF = 9 cm
- (C) PQ = 1.28 cm, PR = 2.56 cm, PE = 0.18 cm, PF = 0.52 cm
- (D) Both (B) and (C)

Class : X

Physics

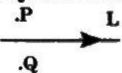
An incident ray strikes a plane mirror at an angle of incidence 26of 50°. What is the decrease in the angle of reflection, if the incident ray moves to an angle of incidence of 30°?



Plane mirror

- (A) 10°
- (B) 20°
- (C) 30°
- (D) 40°
- At sunset, how does the sun seem to be?
 - (A) Exactly where it really is. (B) Higher than it really is.

 - (C) Lower than it really is. (D) Lower than it would be at sunrise.
- If an electron revolves in the path of radius of 0.5×10^{-10} m at a frequency of 5×1015 cycles s1, then find the electric current in the circle.
 - (A) 0.4 mA
- (B) 0.8 mA (C) 1.2 mA
- (D) 1.6 mA
- Two compass needles are placed near a current carrying wire at points P and Q as shown in the figure below.



What can be concluded?

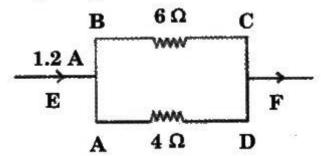
- (A) Their needles will not deflect.
- (B) Needle at P only will deflect.
- (C) Both the needles will deflect in the same direction.
- (D) The needles will deflect in opposite directions.

- The resistance of a metal wire of length 2 m is 40Ω at 20 °C. If the diameter of the wire is 1 mm, then what will be the resistivity of the metal at that temperature?
 - (A) $1.28 \times 10^{-8} \Omega \text{ m}$
- (B) $1.57 \times 10^{-9} \Omega \text{ m}$
- (C) $1.75 \times 10^{-9} \Omega \text{ m}$
- (D) $1.88 \times 10^{-8} \Omega \text{ m}$
- Which of the following is the best conductor of electricity?
 - (A) Distilled water

(B) Water

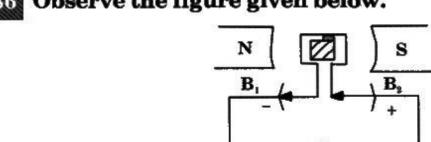
(C) Salt water

- (D) Hot water
- Which of the following does not belong to the group formed by the others?
 - (A) Generator (B) Dynamo (C) Motor
- (D) Windmill
- 33 If the far point of an eye is at 4 m, then identify the defect of eye and the lens needed to correct this.
 - (A) Hypermetropic and needs -1.25 D lens.
 - (B) Hypermetropic and needs +2.5 D lens.
 - (C) Myopic and needs +0.25 D lens.
 - (D) Myopic and needs -0.25 D lens.
- Observe the figure given below.



Find the current passing through 6 Ω resistor.

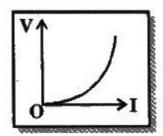
- (A) 0.72 A
- (B) 0.80 A
- (C) 0.48 A
- (D) Cannot be said
- Why does a red coloured object seem to be red?
 - (A) It absorbs red colour.
 - (B) It allows red colour to pass through.
 - (C) It scatters red colour.
 - (D) It reflects red colour.



230V 50 Hz

What is wrong with the DC motor connections shown in the above figure?

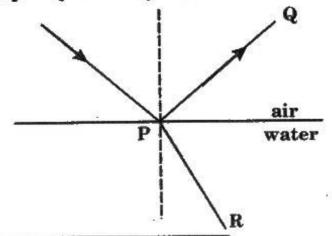
- (A) Nothing is wrong with it.
- (B) Polarity of the magnets are wrong.
- (C) Polarity of the brushes B, and B, are not correct.
- (D) Supply voltage is not correct.
- 37 The power of a lens is +2.5 D. What kind of lens is it and what is its focal length?
 - (A) Convex lens, 40 cm
- (B) Concave lens, 100 cm
- (C) Convex lens, 50 cm
- (D) Concave lens, 40 cm
- What is the least distance of distinct vision for a normal adult human being?
 - (A) 10 cm
- (B) 25 cm
- (C) 1 m
- (D) Infinity
- 39 The graph of the potential difference V against the current I for a device is as shown below.



Which of the following is the correct deduction?

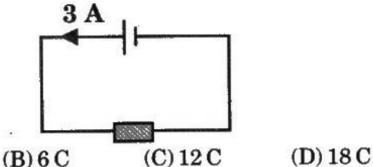
- (A) The device obeys Ohm's law.
- (B) The resistance of the device increases when the current increases.
- (C) The resistance of the device remains constant when the p.d. increases.
- (D) The resistance of the device remains constant when the current increases.

A ray of light travels from air to water as shown below. What are ray PQ and ray PR?



	Ray PQ Ray PR					
(A)	Reflected ray	Refracted ray				
(B)	Reflected ray	Reflected ray				
(C)	Refracted ray	Reflected ray				
(D)	Refracted ray	Refracted ray				

- If the forefinger shows the direction of the magnetic field and the thumb indicates the motion of the conductor, then, according to Fleming's left hand rule, what does the middle finger point at?
 - (A) The direction of e.m.f.
- (B) The direction of current.
- (C) The direction of flux.
- (D) The direction of lines of force.
- How much charge flows through the resistor in 4 s?



- (A) 3 C

- Which of the following cannot be deflected by a magnetic field?
 - (A) Alpha rays

(B) Beta rays

(C) Gamma rays

(D) Cosmic rays

Which of the following statements are true?

- (i) The principal focus of a converging lens is real.
- (ii) The principal focus of a diverging lens is virtual.
- (iii) The principal focus of a lens is always along the principal axis.
- (A) (i) and (ii) only
- (B) (ii) and (iii) only
- (C) (i) and (iii) only
- (D) (i), (ii) and (iii)

45 Assertion: There is no dispersion of light refracted through a rectangular glass slab.

Reason: Dispersion of light is the phenomenon of splitting of a beam of white light into its constituent colours.

- (A) Both Assertion and Reason are true. Reason is the correct explanation of Assertion.
- (B) Both Assertion and Reason are true. Reason is not the correct explanation of Assertion.
- (C) Assertion is true and Reason is false
- (D) Both Assertion and Reason are false.

Which of the following statements are always true?

- When the object is placed nearer to the focal point of a converging lens the image gets bigger.
- (ii) When the object is placed farther away from the converging lens, the image gets smaller.
- (iii) When the object is placed very far away from the converging lens, the image distance approaches focal length.
- (A) (i) and (ii) only
- (B) (ii) and (iii) only
- (C) (i) and (iii) only
- (D) (i), (ii) and (iii)

A 220 V, 100 W bulb is connected to a 110 V source. Calculate the power consumed by the bulb.

- (A) 10 W
- (B) 15 W.
- (C) 20 W
- (D) 25 W

- If the index finger points towards the north and the middle finger towards the east, when using Fleming's left-hand rule, what will be the direction of motion or that of the force acting on the conductor?
 - (A) South
- (B) West
- (C) Top
- (D) Bottom
- Which of the following can produce a virtual image for any position of the object?
 - (A) Plane mirror

(B) Concave mirror

(C) Convex lens

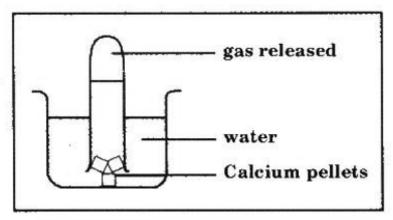
- (D) All of the above
- A concave mirror is made by cutting a portion of a hollow glass sphere of radius 24 cm. Find the focal length of the mirror.
 - (A) 24 cm
- (B) 12 cm
- (C) 6 cm
- (D) 18 cm

Class: X

Chemistry



Observe the given reaction of Calcium with water.



What happens when pellets of calcium are added to the water?

- (i) The solution produced turns red litmus into blue.
- (ii) The gas released produces a 'pop' sound when tested with a lighted splinter.
- (iii) The calcium pellets burn with a brick-redflame.
- (A) (i) and (ii) only

- (B) (ii) and (iii) only
- (C) (i) and (iii) only
- (D) (i), (ii) and (iii)

Study the following statements about dilute sulphuric acid.

- (i) A white precipitate is formed when aqueous barium chloride is added.
- (ii) The solution turns anhydrous copper(II) sulphate from white to blue.
- (iii) Addition of a Universal Indicator shows that the solution has a pH value of less than 7.0.
- (iv) The solution reacts with copper(II) oxide, forming a blue solution.

Which two statements confirm the acidic nature of the solution?

(A) (i) and (ii) only

- (B) (i) and (iii) only
- (C) (ii) and (iv) only
- (D) (iii) and (iv) only

Which of the following is not a decomposition reaction?

- (A) $CaCO_3 \rightarrow CaO + CO_2$ (B) $2KClO_3 \rightarrow 2KCl + 3O_2$
- (C) $2\text{NaNO}_3 \rightarrow 2\text{NaNO}_2 + \text{O}_2$ (D) $\text{H}_2 + \text{C}l_2 \rightarrow 2\text{HC}l$

54 Study the given reaction below.

 $2Pb(NO_3)_2 \rightarrow 2PbO + nA + O_2$

In the above reaction, what is nA?

(A) 4NO,

(B) 2NO.

(C) 2PbNO₂

(D) NO.



Which statement about an homologous series is incorrect?

- (A) All the members of the series have similar chemical reactions.
- (B) All the members of the series have the same functional group.
- (C) All the members of the series have the same general formula.
- (D) All the members of the series have similar physical properties.



In which reaction do two compounds exchange their ions or radicals mutually to form two new compounds?

- (A) Displacement reaction.
- (B) Double displacement reaction.
- (C) Synthesis reaction.
- (D) Decomposition reaction.



Which calcium compound does not increase the pH of acidic soils?

(A) Calcium carbonate

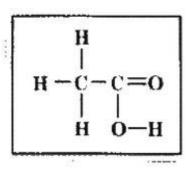
(B) Calcium hydroxide

(C) Calcium oxide

(D) Calcium sulphate



The diagram shows the structure of ethanoic acid.



How many moles of ethanoic acid react with one mole of magnesium?

(A) 1

(B) 2

(C)3

(D) 4

Why is roasting carried out?

- To convert sulphide ore to oxide. (i)
- (ii) To remove water of hydration.
- (iii) To remove water of crystallisation and volatile impurities.
- (A) (i) and (ii) only

- (B) (ii) and (iii) only
- (C) (i) and (iii) only
- (D) (i), (ii) and (iii)

60 Which observation most strongly suggests that a solid element X is a non-metal?

- (A) X forms an acidic oxide.
- (B) X has a high melting point.
- (C) X is a conductor of electricity.
- (D) X reacts vigorously with chlorine.

The gases X and Y, have the following properties.

- X dissolves in aqueous sodium hydroxide but Y is insoluble.
- Y burns in excess oxygen to give X and water only.
- Y does not decolourise aqueous bromine.

What are gases X and Y?

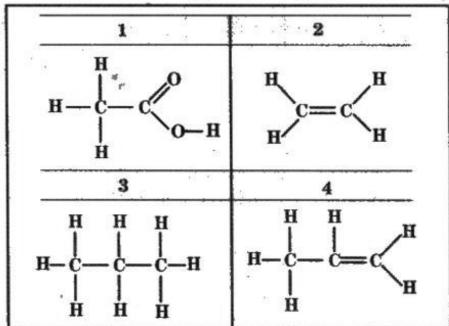
	X	Y
(A)	Carbon monoxide	ethene
(B)	Carbon monoxide	ethane
(C)	Carbon dioxide	ethane
(D)	Carbon dioxide	ethene

62	Which physical property of the alkanes <i>does not</i> increase as relative molecular mass increases?							
	(A) Boiling point	(B) Flammabi	lity					
	(C) Melting point	(D) Viscosity						
63	Why is aluminium a suitable material for building air crafts?							
	(A) It is a good conductor of l	neat.						
	(B) It has a high melting poin	nt.						
	(C) It is shiny.							
	(D) It is light and does not ru	ist easily.						
64	Study the equation given	below.						
	$2Al + (X)H_2SO_4$	$\rightarrow Al_2 (SO_4)$	+3H ₂					
	In the given equation, wh	at does 'X' sta	and for?					
	(A) 2 (B) 3	(C)1	(D) 5					
65	Which of the following meta	als cannot be r	reduced by carbon?					
	(A) Magnesium	(B) Iron						
	(C) Zinc	(D) Lead						
66	Same acid solution is taken in two test tubes. Zinc is introduced in the first test tube and magnesium in the second. A gas is evolved in the second test tube which burns with a pop sound while no gas is evolved from the first. Identify the acid solution taken in the two test tubes.							
	(A) HCl	$(B) HNO_3$						
	$(C) H_2SO_4$	(D) H_3PO_4						

Which of the following reactions involves oxidation and reduction?

- (A) NaBr + $HCl \rightarrow NaCl + HBr$
- (B) HBr + AgNO₃ → AgBr + HNO₃
- (C) $H_2 + Br_2 \rightarrow 2HBr$
- (D) $Na_2O + H_2SO_4 \rightarrow Na_2SO_4 + H_2O$
- 68 N, P, As and Sb react with O_2 to form N_2O_5 , P_4O_{10} , As O_{10} and Sb₄O₁₀ respectively. Among all these, identify the most acidic oxide.
 - $(A) N_o O_E$
- (B) P_4O_{10} (C) As_4O_{10}
- (D) Sb,O,
- One mole of hydrocarbon 'X' reacted completely with one 69 mole of hydrogen gas in the presence of a heated catalyst. What could be the formula of 'X'?
 - $(A) C_2H_6$

- (B) C_4H_{10} (C) C_5H_{10} (D) C_7H_{16}
- The structures of four organic compounds are shown below.



Which compounds decolourise bromine water?

(A) 1 and 2 only

(B) 1, 2 and 4 only

(C) 2 and 4 only

(D) 3 and 4 only

Proteins are digested in which of the following parts of the alimentary canal?

- (A) Mouth, stomach and duodenum
- (B) Stomach, duodenum and intestine
- (C) Stomach, pancreas and intestine
- (D) Duodenum, ileum and liver
- Which of the following organisms reproduces by budding?
 - (A) Plasmodium

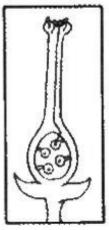
(B) Planaria

(C) Paramecium

- (D) Hydra
- Which of the following is the seat of intelligence and control voluntary actions in the brain?
 - (A) Pons (B) Cerebellum (C) Cerebrum (D) Medullaoblongata
- Which of the following is a plant hormone?
 - (A) Insulin
- (B) Thyroxine (C) Oestrogen (D) Cytokinin



Observe the diagram given below.



What happens after the above stage?

- (A) The ovary splits open.
- (B) Ovary develops into a fruit and ovules into seeds.
- (C) The ovules are dispersed.
- (D) Germination of seeds takes place.
- Which of the following is a primary sex organ that produces gametes in a mammal?
 - (A) Uterus
- (B) Vagina
- (C) Ovary (D) Mammary glands

- Which of the following systems is responsible for producing enzymes that aid in breaking down of complex substances to be absorbed for the body's growth and repair?
 - (A) Respiratory system
- (B) Digestive system
- (C) Circulatory system
- (D) Nervous system
- Which the following processes takes place in the figure given below?

 - (A) Selective reabsorption
- (B) Filtration of blood

(C) Stores urine

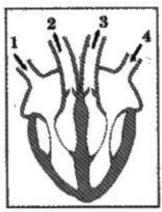
- (D) Conducts urine
- Which of the following methods is used to produce new rose plants?
 - (A) Layering

(B) Bud grafting

(C) Budding

- (D) Stem cutting
- Which of the following set represents homologous organs?
 - (A) Fore limb of a bird, the wing of a bat.
 - (B) Fore limb of a frog, a lizard and a bird.
 - (C) The wing of a bat and the wing of a bird.
 - (D) Fore limb of a lizard and the wing of a insect.
- 81 Which of the following is the function of stomata?
 - (A) It controls the loss of food material from the plant.
 - (B) It helps in transpiration.
 - (C) It prevents exchange of gases.
 - (D) It controls the loss of energy from the plant.

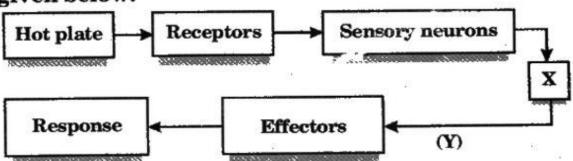
- Which of the following set of chromosomes represents male chromosomes? (C) XY (D) OX (B) YY (A) XX Which of the following processes cause the movement of water in a plant against gravity? (B) Diffusion (A) Osmosis (D) Transpiration (C) Photosynthesis Which of the following statements refers to parthenocarpy? (A) The development of fruit after fertilisation. (B) The development of fruit before the union of male nucleus with antipodals. (C) The development of fruit from petals. (D) The development of fruit without fertilisation. 85 Which of the following glands is lost as the age advances? (B) Thymus (C) Pancreas (D) Adrenal (A) Thyroid Which of the following is the correct sequence?
 - (A) Gametogenesis → syngamy → embryogenesis → zygote
 - (B) Gametogenesis → syngamy → zygote → embryogenesis
 - (C) Syngamy \rightarrow gametogenesis \rightarrow embryogenesis \rightarrow zygote
 - (D) Zygote \rightarrow embryogenesis \rightarrow syngamy \rightarrow gametogenesis
- The diagram shows a section through the human heart.



Which blood vessels carry blood to and from the lungs?

В	lood to lungs Blood from lungs			
(A)	1	3		
(B)	1	4		
(C)	2	3		
(D)	2	4		

Observe the reflex arc pathway shown in the flow chart given below.



Which of the following is represented by X and Y?

1000						
15	X	γ.				
(A)	Brain	Sensory neuron				
(B)	Spinal cord	Motor neuron				
(C)	Brain	Motor neuron				
(D)	Sensory neuron	Spinal cord				

89 The root of a plant is said to be:

- (A) Positively geotropic
- (B) Positively phototropic
- (C) Negatively geotropic
- (D) Positively thigmotropic

Which of the following is the part of female reproductive system?

(A) Epididymis

(B) Vas deferens

(C) Fallopian tube

(D) Seminal vesicle

(C) Copyright

What is ergatocracy? (A) Government run by workers. (B) Government run by priests. (C) Government run by rich people. (D) Government run by old people. Which of these is a type of relay race? (A) $4 \times 100 \text{ m}$ (B) $2 \times 400 \text{ m}$ (C) $3 \times 400 \text{ m}$ (D) $4 \times 150 \text{ m}$ 93 What is the study of earthquakes called? (A) Morphology (B) Graphology (C) Toxicology (D) Seismology Which of these books was written by Sri Krishna Devaraya? (A) Vasucharitra (B) Manucharitra (C) Parijathapaharanam (D) Amukta Malyada 95 Which of the following is also called 'Hansen's disease'? (A) Syphilis (B) Mumps (C) Leprosy (D) Plague 96 What is the full form of e-mail? (A) English mail (B) Elaborate mail (C) Electronic mail (D) Elongated mail Which of these tells us how much a vehicle has travelled? (A) Odometer (B) Ammeter (C) Voltmeter (D) Speedometer What do you call an excessive rise in the general level of prices? (A) Demand (B) Inflation (C) Price level (D) Increased price Who invented DNA finger printing? (A) Hanson Crockett (B) Sir Alec Jeffrey (C) Gerhard Fisher (D) Othmar Zeidler What is a set of exclusive rights that regulate the use of a particular expression of an idea or information called? (A) Fundamental right (B) Basic right

(D) Birth right

- Key for NSTSE-2012 -

						-			
8	В	В	A	В	A	J	8	V	Ų.
0.	20.	30.	40.	50.	.09	70.	80.	90.	100
A	A	0	8	٧	U	C	D	A	В
6	19.	29.	39.	49.	59.	69	.62	89.	86
8	c	В	8	C	В	A	В	В	В
ಹ	18	28.	38	48.	28	68	78.	88	86
В	D	8	A	٥	٥	C	8	D	A
7.	17.	27.	37.	47.	57.	.79	77.	87.	97.
٥	A	8	D		В	8	C	8	5
9	16.	26.	36.	46.	.99	.99	76.	86.	96
C	В	В	D	8	D	A	8	В	C
ķ	15.	25.	35.	45.	55.	65	75.	85	95
D	В	8	Ç	D	A	8	D	D	۵
4	14.	24.	34.	4	54.	4.	74.	8.	8,
٥	٥.	Ç.	. D	٠.	D.	. D	٠.	D.	٥.
ų	13	23	33	43	53	63	73	83	93
U	U	J	J	J	٥	В	٥	U	A
2	12.	22.	32.	42.	52.	62	72.	82.	92.
В	В	C	C	В	A	C	В	В	A
-	11.	21.	31.	41.	51.	61.	71.	81.	91.