

# NATIONAL TALENT SEARCH EXAMINATION (NTSE-2021) STAGE-1 STATE : GUJARAT PAPER : SAT

Date: 14/02/2021

Max	. Marks: 100	SOLUTI	ONS	Time allowed: 120 mins		
1.	Which of the following is not an irrational number?					
	(1) $\sqrt{2}$	(2) π	(3) 0.101101110	(4) $\frac{3}{5}$		
Ans. Sol.	(3, 4) Rational number:-A number:-A number $q \neq 0$ . therefore, option (3) and (	per is called rational if it can be 4) both are correct	expressed in the form p/q	where p and q are integers and		
2. Ans.	If $x = -1$ then find the rem (1) 6 (2)	nainder for the given polynomia (2) – 6	al $5x - 4x^2 = 3$ . (3) 2	(4) 4		
Sol.	Polynomial $5x - 4x^2$ 3 Put the value of $x = -1$	3				
3. Ans. Sol.	$5(-1) - 4(-1)^2$ 3 $-5$ A Greek mathematician w (1) Euclid (2) A Greek mathematician w	– 4 3 –9 3 –6 vas the first to give theorem is - (2) Pythagorus vas the first to give theorem is P	(3) Thales ythagorus.	(4) Ayrabhatt		
4.	What is the formula for to (1) $3\pi r^2$	tal surface area of hemisphere? (2) $2\pi r^2$	(3) $4\pi r^2$	(4) πr <sup>2</sup>		
Ans. Sol. 5.	(1) Total surface area of hemisphere is $3\pi r^2$ , The perimeter of a triangle is 32 cm and its two sides are 8 cm and 11 cm then find the area of the triangle.					
Ans. Sol.	(1) $16\sqrt{30}$ cm <sup>2</sup> (2) Let the sides of the given to Let a = 8cm, b = 11cm, 2s = 32cm $\Rightarrow s = 16$ cm $a + b + c = 2s \Rightarrow 8 + 1$	(2) $8\sqrt{30}$ cm <sup>2</sup> triangle are a, b and c and its per 1 + c = 32	(3) $4\sqrt{30}$ cm <sup>2</sup> erimeter be 2s.	(4) 2√30 cm²		
	c = 32 - 19 = 13  cm					

s - a = 16 - 8 = 8cms - b = 16 - 11 = 5 cms - c = 16 - 13 = 3 cmBy heron's formula area of  $\Delta = \sqrt{s(s-a)(s-b)(s-c)}$  $ar(\Delta) = \sqrt{16 \times 8 \times 5 \times 3} = \sqrt{8 \times 2 \times 8 \times 5 \times 3} = 8\sqrt{30} \text{ cm}^2$ 6. If H.C.F.(306,657) = 6 then L.C.M.(306,657)(1)22338(2) 33507(3) 32402 (4) 20512 Ans. (2) **Sol.** Given that HCF = 6 and the numbers are 306 and 657. LCM = ?We know that LCM  $\times$  HCF = product of two numbers  $\Rightarrow$  LCM  $\times 6 = 306 \times 657$  $\Rightarrow \text{LCM} = \frac{306 \times 657}{6} \quad \frac{201042}{6} \quad 33507 \; .$ If  $p(x) = 2x^3 - 5x^2 - 14x$  8 and its two zeroes are 4 and -2, then the third zero is \_\_\_\_. 7. (2)  $\frac{3}{2}$  $(1) \frac{1}{2}$ (4)-6 (3)2Ans. (1) **Sol.**  $p(x) = 2x^3 - 5x^2 - 14x = 8$ Let three zeroes be  $\alpha, \beta, \gamma$ Product of three zeroes =  $\frac{-d}{a} = \frac{-8}{2}$ Given Product of two zeroes = -8 $\alpha\beta\gamma = -4$  $-8 \times \gamma = -4$  $\gamma = \frac{-4}{-8} \quad \frac{1}{2}$ The sum and product of a quadratic polynomial are 0 and  $\sqrt{5}$  respectively, then quadratic polynomial is \_\_\_\_\_. 8. (1)  $x^2 - \sqrt{5}$  0 (2)  $\sqrt{5}x^2 \sqrt{5}$  0 (3)  $x^2 \sqrt{5}x$  0 (4)  $x^2 \sqrt{5}$  0 Ans. (4) **Sol.** If  $\alpha$   $\beta$  be the zeros of the quadratic polynomial ,then  $(x - \alpha)(x - \beta)$  is the quadratic polynomial. Thus,  $(x - \alpha)(x - \beta)$  is the polynomial.  $=x^2 - \alpha x - \beta x + \alpha \beta$  $=x^2-x(\alpha+\beta+\alpha\beta)$ (i) Given  $(\alpha + \beta) = 0$ ,  $\alpha\beta = \sqrt{5}$ Now putting the value of  $(\alpha + \beta)$ ,  $\alpha\beta$  in equation (i) we get,  $x^2 - x(0) + \sqrt{5} = x^2 + \sqrt{5} = 0$ 

<b>9</b> .	0.2x + 0.3y = 1.3, 0.4	4x + 0.6y = 2.6 ha	IS	_solutions.		
	(1) No	(2) Unique		(3) Infinite	(4) Two	
Ans.	(3)					
Sol.	$\frac{a_{1}}{b_{1}}  \frac{a_{2}}{b_{2}}  \frac{c_{1}}{c_{2}} \text{ is the constraints} \\ \frac{0.2}{0.4}  \frac{0.3}{0.6}  \frac{1.3}{2.6} \\ \frac{1}{2}  \frac{1}{2}  \frac{1}{2} \\ \end{array}$	ondition for infinitely	y many solution	ns.		
10.	<b>0.</b> The semi perimeter of a rectangle garden is 36 m. Its length is 4 m more than its breadth. The length of the ga					
	(1) 20	(2) 16		(3) 18	(4) 36	
Ans.	(1) 20 (1)	(2) 10		(0) 10	(+) 00	
Sol.	Let the width of the gar	den =x metre				
	Then length $=$ (x+4) me	tre				
	Half perimeter $= 36 \text{ m}$					
	So perimeter of garden	$=(2 \times 36) = 72$ metr	es			
	According to the questi	on				
	$\Rightarrow 2(l + b) = 72$					
	$\Rightarrow 2(x + x + 4) = 72$					
	$\Rightarrow 2(2x + 4) = 72$					
	$\Rightarrow$ 4x + 8 = 72					
	$\Rightarrow$ 4x = 64					
	$\Rightarrow$ x =16 metres					
	Hence, the width of the	garden =16 metres	;			
	The length of the garde	n = (16+4) = 20 me	tres			
11.	Which term of A.P. 21	, 18, 15,	is81?			
	(1) 33	(2) 35		(3) 32	(4) 15	
Ans.	( <b>2</b> )					
501.	The series is $21,18,15,.$					
	a = 21, a = -3	).d				
	$a_n = -01, a_n = a + (n-1)$ -81 = 21 + (n - 1)(-3)	.)u				
	-81 - 21 = -3(n - 1)					
	102 = 3(n - 1)					
	n - 1 = 34					
	n = 34 + 1 = 35					
	therefore 35th term of	the A.P. is –81.				
12.	7 $10\frac{1}{2}$ 14	84				
	(1) $1046\frac{1}{2}$	(2) $1049 \frac{1}{2}$		(3) 523	(4) $625 \frac{1}{2}$	

Ans. (1)

In given series of AP first term a = 7, common difference d =  $10\frac{1}{2}-7=\frac{21}{2}-7$   $\frac{7}{2}$  and last term l = 84Sol. Since, l = a + (n-1)d $\Rightarrow$  84=7+(n-1)  $\frac{7}{2}$  $\Rightarrow$  84 - 7 = (n - 1)  $\frac{7}{2}$  $\Rightarrow$  77 = (n - 1)  $\frac{7}{2}$  $\Rightarrow 77 \times \frac{2}{7} = n - 1$  $\Rightarrow 22 = n - 1$  $\Rightarrow$ n = 23 Since,  $S_n = \frac{n}{2}(a = l)$  $S_n = \frac{23}{2}(7 = 84)$  $S_n = 91 \times \frac{23}{2}$  $S_n = \frac{2093}{2}$  $S_n = 1046 \frac{1}{2}$ 13. In  $\triangle ABC$ , DE || BC then AB = cm. (1) 1.2(2) 0.3(3) 2.4(4) 9.6Ans. (4) Sol. Let AD be x cm. By BPT AD AE EC DB 1 х 7.2 3 x 2.4 AB 2.4 7.2 9.6 14. Points (5, -6) and (-1, -4) joining the line segment is divided by points on Y axis in ratio\_\_\_\_\_. (According to gujarati medium paper in this question value of coordinates of point was asked)  $(3)\left(0,\frac{13}{3}\right)$  $(1)\left(0,\frac{-13}{3}\right)$ (4) (-9, 0) (2)(0, -9)

**Sol.** Let the line segment joining points AB where coordinates of A(5, -6) and B(-1, -4) is divided at point P(0, Y) by y – axis in ratio m : n

$$\therefore x \quad \frac{mx_2 \quad nx_1}{m \quad n} \text{ and } y \quad \frac{my_2 \quad ny_1}{m \quad n}$$

Here,  $(x, y) = (0, y); (x_1, y_1) = (5, -6)$  and  $(x_2, y_2) = (-1, -4)$ 

So, 0 
$$\frac{m(-1) \quad n(5)}{m \quad n}$$
$$0 = -m \quad 5n$$
$$\Rightarrow m \quad 5n$$
$$m \quad 5$$

 $\Rightarrow \frac{1}{n}$   $\frac{1}{1}$ 

Hence, the ratio is 5 :1 and the division is internal. Now.

$$y \quad \frac{my_2 \quad ny_1}{m \quad n}$$
  
$$\Rightarrow y \quad \frac{5(-4) + 1(-6)}{5 \quad 1} \quad \frac{-20 - 6}{6} \quad \frac{-26}{6} \quad \frac{-13}{3}$$

Hence, the coordinates of the points of division is  $\left(0, \frac{-13}{3}\right)$ 

- **15.** (2, -5) and (-2, 9) are equidistant, then points on X axis are \_\_\_\_\_.

   (1) (-7, 0)
   (2) (0, -7)
   (3) (-9, 0)
   (4) (0, -9)
- Ans. (1)

**Sol.** Since point on x-axis, then coordinate of the point is (x, 0). According to the question this point (x, 0) is equidistant from the points (2, -5) and (-2, 9). That is, distance between (x, 0) and (2, -5) = distance between from (x, 0) and (-2, 9).

$$\sqrt{(2-x)^{2} + (-5-0)^{2}} = \sqrt{(-2-x)^{2} + (9-0)^{2}}$$
  

$$\Rightarrow (2-x)^{2} + (-5)^{2} = (-2-x)^{2} \quad 9^{2}$$
  

$$\Rightarrow 4 - 4x \quad x^{2} \quad 25 \quad 4 \quad 4x \quad x^{2} \quad 81$$
  

$$\Rightarrow 8x = 25 - 81$$
  

$$\Rightarrow 8x = -56$$
  

$$\Rightarrow x = -7$$
  
So, point is (-7, 0)

**16.** A girl is moving away with velocity of 1.2 m/s from the base of an electric pole. Height of the girl is 90 cm. If electric pole is 3.6 cm(3.6 m given in gujarati medium paper) high from the surface of earth then after 4 seconds the length of the shadow will be \_\_\_\_\_m.

(1) 2.8 (2) 4.4 (3) 1.6 (4) 4.2

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Ans. (3)
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**Sol.** Let the girl be at point D on the ground from the lamp post after 4 seconds. Therefore,

AD=1.2 m/sec  $\times$  4 sec = 4.8 m = 480 cm

Electric pole is 3.6m = 360 cm

Suppose the length of the shadow of the girl be x cm when she is at position D. Therefore,

BD = x cm

Now, In  $\triangle$ BDE and  $\triangle$ BAC,

 $\angle BDE = \angle BAC$  (Both are 90°)

 $\angle DBE = \angle ABC$  (Common)

Thus,  $\triangle BDE \sim \triangle BAC$  (AA similarity)

	c			
	360 cm			
		90 cm		
	A D	) B		
	$\frac{BE}{BC}  \frac{DE}{AC}  \frac{BD}{AB}$			
	(Corresponding sides are p	roportional)		
	<u>90 x</u>			
	360 480 x			
	$\Rightarrow \frac{1}{4}  \frac{x}{480  x}$			
	$\Rightarrow 480 \text{ x} 4x$			
	$\Rightarrow 4x - x  480$			
	$\Rightarrow 3x  480$			
	$\Rightarrow$ x 160		1.0	
17	Hence length of her shado	watter 4 seconds is 160 cm	$1 = 1.0 \mathrm{m}.$	
17.	(1) Mean	(2) Renge	(2) Median	(1) Mode
Ans	(1) Mean (2)	(2) hange	(3) Median	(4) Mode
Sol	(2) Mean Median and Mode	are measure of central tendenc	y So answer is Range	
18.	If median is 15.5 and mea	and is $10.2$ then mode is	y. 00 answer is hange.	
107	(1) 66.9	(2) 46.5	(3) 20.4	(4) 26.1
Ans.	( <b>4</b> )	(=)	(-)	(-)
Sol.	Mode = $3$ Median – $2$ me	an		
	Mode = $3 \times 15.5 - 2 \times 10^{-10}$	0.2		
	Mode = 46.5 - 20.4			
	Mode = $26.1$			
19.	If a dice is thrown once, th	ne probability of getting an indi	ivisible number is	·
	(1) $\frac{1}{2}$	(2) $\frac{2}{3}$	(3) $\frac{5}{6}$	(4) $\frac{1}{6}$
Ans.	(1)			
Sol.	A dice total outcomes is 6			
	maivisiole number(Prime)	$\operatorname{number}_{j} = 2, 3, 3$		
	Probability = $\frac{3}{6} = \frac{1}{2}$			

<b>20</b> .	If $P(\overline{E}) = 0.95$ , then $P(E) = $					
	(1) 0.15	(2) 0.05	(3) 0.25	(4) 0.01		
Ans.	(2)					
Sol.	$P(E) + P(\overline{E}) = 1$					
	P(E) + 0.95 = 1					
	P(E) = 1 - 0.05 = 0.05					
01	P(E) = 1 = 0.95 = 0.05		1 1 , 111 , 1			
21.	If solid carbon dioxide is k	ept at 1 atmospheric pressure t	nen what will be its physical	(4) Liquid and Cas		
4.00	(1) Liquia (2)	(2) 5010	(3) Gas	(4) Liquid and Gas		
Alis.	(J)	O aviata in gazagua atata				
301. 99	Which technique is used in	O <sub>2</sub> exists in gaseous state.	nd uring complex ?			
LL.	(1) Contribution	(2) Sublimation	(2) Filtration	(1) Europoration		
4.00		(2) Sublimation	(3) FIIII alloli	(4) Evaporation		
Alis.	(1) Contribution is used in r	athology to avaming blood an	during complex			
301. 92	Latin name (Kalium' is der	wind from the origin of which a	lamont 2			
23.	(1) Sodium	(2) Data asiura		(4) Incu		
<b>A</b>	(1) Sodium	(2) Potassium	(3) Copper	(4) Iron		
Ans.		uiter al forme the second size of Determining				
301. 94	Latin name Kallum is de	erived from the origin of Potassi	um			
Z4.	(1) Droton	(2) Electron	(2) Nucleus	(1) Noutron		
<b>A</b>	(1) Proton (2)	(Z) Electron	(3) Nucleus	(4) Neutron		
Ans.	( <b>J</b> )	concentrated mass of an atom	a as it contains both protons	and neutrons		
301. 25	Which of the following me	l'concentraleu mass or an atom	rash comains oom protons	and neurons.		
20.	(1) DNA	(2) ATP	(3) RNA	(4) Amino acid		
Ans.	(2)			(1)1		
Sol.	ATP (Adenosine triphosph	ate) is called energy currency o	f the cell.			
<b>26</b> .	What connects two succes	sive bones?				
	(1) Tendon	(2) Cartilage	(3) Ligaments	(4) Nucleus		
Ans.	(3)					
Sol.	Ligament is the fibrous con	nnective tissue that connects tw	o successive bones.			
27.	Which of the following bel	ongs to phylum coelentrata?				
	(1) Spongilla	(2)Planaria	(3) Hydra	(4) Sycon		
Ans.	(3)					
Sol.	Hydra belongs to phylum (	Joelenterata.		h - h - d - J		
Zð.	A body travels 10m in 4s, (1) $5.33 \text{ ms}^{-1}$	$(2) 5.2 \text{ ms}^{-1}$	(3) 5 33 ms	$(A) 12 \text{ ms}^{-1}$		
Ane	(1) 0.00 IIIS - (1)	(2) J.2 III5 -	(0) 0.00 IIIS	(+) 12 1115 -		
<i>nus.</i>	(*/					

Sol.	Distance = $16 \text{ m} + 16 \text{ m} = 32 \text{ m}$						
	Time = $6 s$						
	Speed = distance / time =	= 32 / 6 = 5.33 m/s					
<b>29</b> .	What is the S.I. unit of momentum?						
	(1) kg ms <sup>-2</sup>	(2) kg ms	(3) kg ms <sup>-1</sup>	(4) kg m			
Ans.	(3)						
Sol.	Momentum, p = mv. So,	its SI unit is kg ms <sup>-1</sup> .					
<b>30</b> .	Who has discovered value	e of G with the help of sensitivity	y balance?				
	(1) Henry Cavendish	(2) Newton	(3) Archimedes	(4) Purkinje			
Ans.	(1)						
Sol.	Henry Cavendish has disc	covered value of G with the help	o of sensitivity balance.				
31.	$E_{\rm K} = \frac{1}{2}  {\rm mv}^2$ shows which	type of energy of a body?					
	(1) Potential energy	(2) Nuclear energy	(3) Mechanical energy	(4) Kinetic energy			
Ans.	(4)						
Sal	$E = \frac{1}{2}$ mu <sup>2</sup> is the formul	a of kinatic anargy					
301.	$L_{\rm K} = \frac{1}{2}$ more is the formula	a of kinetic energy.					
32.	Which part of human ear	converts vibrations into electric	al signal?				
	(1) Hammer	(2) Cochlea	(3) Anvil	(4) Auditory nerve			
Ans.	(2)						
Sol.	Cochlea converts vibratio	ns of sound into electrical signa	l in human ear.				
33.	Which organism causes sle	eeping sickness?					
	(1) SARS	(2)Trypanosoma	(3) Roundworm	(4) Leishmania			
Ans.	(2)						
Sol.	Sleeping sickness is caused	d by Trypanosoma genus which	n is a protozoan.				
34.	What is the range of temp	erature on moon?					
	(1) – 180 °C to 100 °C	(2) – 190 °C to 110 °C	(3) – 90 °C to 110 °C	(4) – 180 °C to 110 °C			
Ans.	(2)						
Sol.	Range of temperature on	moon is – 190 °C to 110 °C.					
35.	Which of the following is r	not used as a fodder in animal l	nusbandry?				
	(1) Barseem	(2) Sudan	(3) Oat	(4) Sugarcane			
Ans.	(4)						
Sol.	Sugarcane is mainly not u	ised as a fodder in animal husb	andry.				
36.	Which one of the followin	g steps is not seen during a che	mical reaction?				
	(1) Change in physical sta	te	(2) Evolution of a gas				
	(3) Change in total mass of	of reactants and products	(4) Change in temperatur	е			
Ans.	(3)						
Sol.	In any chemical reaction to products.	the mass is always conserved i.	e. the total mass of reactan	ts is equal to the total mass of			
37.	Thermal decomposition of	of a compound X gives a produc	ct which is used in manufac	turing of cement. What is X?			
	(1) CaO	(2) Ca(OH) <sub>2</sub>	$(3) \operatorname{Ca}(\operatorname{HCO}_3)_2$	(4) CaCO <sub>3</sub>			

#### Ans. (4)

Sol.	X is CaCO <sub>3</sub> .CaCO <sub>3</sub> on thermal decomposition produces CaO and CO <sub>2</sub> .CaO(quick lime) is used in manufacturing or cement.					
	$CaCO_3 \xrightarrow{\Lambda} CaO + CO_2$					
<b>38</b> .	Which compound canno	t be used by a farmer to mainta	ain neutrality of acidic soil?			
	(1) Quick lime	(2) Gypsum	(3) Slaked lime	(4) Chalk		
Ans.	(2)					
Sol.	To maintain the neutrality of acidic soil, a basic substance must be used. Quick lime(CaO), slaked lime(Ca(OH) <sub>2</sub> ), chalk (CaCO <sub>3</sub> ) are basic in nature. Gypsum is neutral . Hence it can't be used to neutralize the acidic soil.					
<b>39</b> .	Which indicator will be us	sed by a visually impaired child	l to distinguish between an a	acid or a base ?		
	(1) Turmeric powder	(2) Petunia leaves	(3) Vanilla essence	(4) Litmus paper		
Ans.	(3)					
Sol.	Vanilla essence is an olface vanilla essence to disting	ctory indicator while others are uish between an acid or a base	e visual indicators.Hence a v e.	visually impaired child can use		
<b>40</b> .	Which of the following is	not a true statement?				
	<ul><li>(i) If pH of the mouth exe</li><li>(ii) Milk of magnesia is an</li></ul>	ceeds than 5.5 it leads to the fo n antacid	ormation of cavity in teeth.			
	(iii) The sting of ant conta	ains methanoic acid.				
	(iv) If pH of rain water is	less than 5.6 it is termed as ac	id rain.			
	(1) Only statement (i)	(2) Statement (i) and (iv)	(3)Only statement (iii)	(4) Only statement (iv)		
Ans.	(1)					
Sol.	If pH of the mouth falls be Rest all are correct statem	elow 5.5, it leads to the formati nents.	ion of cavity in teeth. Hence	only statement (i) is incorrect.		
41.	Which is poor conductor	of heat?				
	(1) Silver and copper	(2) Lead and copper	(3) Gallium and silver	(4) Lead and mercury		
Ans.	(4)					
Sol.	Lead and mercury are po	or conductors of heat				
<b>42</b> .	Sulphide ore is heated str	ongly in the presence of air. It	is converted into This	technique is called		
	(1) Oxide, calcination		(2) Oxide, reduction			
	(3) Carbonate, calcinatio	ns	(4) Carbonate, reduction			
Ans.	(2)					
Sol.	Sulphide ore is heated str	ongly in the presence of air. It is	s converted into oxide. This	technique is called roasting.		
<b>43</b> .	Which of the following is	not a true statement regarding	purification through electro	lysis ?		
	(i) Pure metal is deposited	d on cathode.				
	(ii) Basic metallic compo	und is used as electrolyte for ele	ectrolytic decomposition.			
	(iii) Solid impurities are se	ettled down as cathode mud.				
	(iv) Pure metal is deposite	ed on anode				
	(1) Only statement (i)		(2) Only statement (iii) ar	nd (iv)		
	(3) Statement (ii) and sta	tement (iii)	(4) Only statement (iv)			
Ans.	(2)					
6-1	During the process of electrolytic refining, pure motel is deposited at the esthede and the insoluble impurities settle					

**Sol.** During the process of electrolytic refining, pure metal is deposited at the cathode and the insoluble impurities settle down as anode mud . Therefore statements (iii) and (iv) are incorrect.

11.	What is the correct sequence of excretion of urine in our body?					
	(1) Kidney tubule $\rightarrow$ Uret	er $ ightarrow$ Urinary bladder $ ightarrow$ Urethi	a			
	(2) Kidney tubule $\rightarrow$ Uret	er $\rightarrow$ Urethra $\rightarrow$ Urinary bladde	er			
	(3) Urinary bladder $\rightarrow$ Ki	dney tubule $\rightarrow$ Ureter $\rightarrow$ Urethi	a			
	(4) Kidney tubule $\rightarrow$ Urin	ary bladder $\rightarrow$ Urethra $\rightarrow$ Urete	er			
Ans.	s. (1)					
Sol.	The correct sequence of excretion of urine in our body is Kidney tubule $\rightarrow$ Ureter $\rightarrow$ Urinary bladder $\rightarrow$ Urethra					
<b>45</b> .	Which liquid compound acts as a respiratory pigment in human body?					
	(1) Haemocyanin	(2) Lymphocytes	(3) Haemoglobin	(4) Thrombocytes		
Ans.	(3)					
Sol.	Hemoglobin is the respira	atory pigment in human body th	nat carries respiratory gases.			
<b>46</b> .	The part of your diet that	is converted into energy is stor	red in which form?			
	(1) Glycogen	(2) Protein	(3) Starch	(4) Fatty acid		
Ans.	(1)					
Sol.	Glucose which is the par	t of our diet , is stored in the for	m of Glycogen in liver in hu	ıman body.		
47.	Which endocrine gland s	ecretes a hormone to control bl	ood sugar level in human bo	ody?		
	(1) Pituitary gland	(2) Thyroid gland	(3) Adrenal gland	(4) Pancreas		
Ans.	(4)					
Sol.	Pancreas is the gland that body	t secretes hormones, insulin and	l glucagon. These hormones	controls the sugar level in our		
	oody.					
<b>48</b> .	Involuntary activities like	blood-pressure, secretion of sali	va and vomiting are controll	ed by which part of hindbrain?		
<b>48</b> .	Involuntary activities like (1) Pons Varolii	blood-pressure, secretion of sali (2) Cerebellum	va and vomiting are controll (3) Medulla	ed by which part of hindbrain? (4) Spinal cord		
48. Ans.	Involuntary activities like (1) Pons Varolii ( <b>3</b> )	blood-pressure, secretion of sali (2) Cerebellum	va and vomiting are controll (3) Medulla	ed by which part of hindbrain? (4) Spinal cord		
48. Ans. Sol.	Involuntary activities like (1) Pons Varolii (3) Medulla oblongata which secretion of saliva and vo	blood-pressure, secretion of sali (2) Cerebellum the part of hind brain is respons omiting.	va and vomiting are controll (3) Medulla ible for controlling involuntar	ed by which part of hindbrain? (4) Spinal cord ry activities like blood-pressure,		
48. Ans. Sol. 49.	Involuntary activities like (1) Pons Varolii (3) Medulla oblongata which secretion of saliva and vo Which of the following st	blood-pressure, secretion of sali (2) Cerebellum the part of hind brain is respons omiting. atement is not true?	va and vomiting are controll (3) Medulla ible for controlling involuntar	ed by which part of hindbrain? (4) Spinal cord ry activities like blood-pressure,		
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51.	51. What is the correct formula to calculate the magnification (m) of lens and mirror?					
	height of the object			Object distance		
	<sup>(1)</sup> height of the image			(2) image distance		
	(3) $\frac{\text{height of the image}}{\text{height of the object}}$			(4) height of the object :	x height of the image	
Ans.	(3)					
Sol.	Magnification (m) of lens	and mirro	$or = \frac{\text{height of the is}}{height of the of th$	image object		
<b>52</b> .	Where is an object kept is	n front of a	a convex lens to obt	ain a virtual and erect imag	je?	
	(1) Between F and O	(2) Infin	ity	(3) Between F and 2F	(4) On 2F	
Ans.	(1)					
Sol.	Object should be kept between O and F in front of a convex lens to obtain a virtual and erect image.					
53.	<b>3.</b> Which of the following is not a correct formula?					
	(1) $I = \frac{Q}{t}$	(2) V =	$\frac{W}{Q}$	(3) V = IR	$(4) H = IR^{2}t$	
Ans.	(4)		~			
Sol.	The correct formula to fir	nd heat en	ergy is $H = I^2 Rt$			
54.	In which of the following	device con	version of electrical	energy into heat energy is r	not required?	
	(1) Electric iron	(2) Elec	tric oven	(3) Electric motor	(4) Electric toaster	
Ans.	(3)					
Sol.	In electric iron, electric or electrical energy is conver	ven and el rted into m	ectric toaster, electr echanical energy.	ical energy is converted int	o heat energy. In electric motor,	
55.	What is correct about a t	rigonal pri	sm of glass?			
	(1) Three square bases as	nd two rect	angular lateral side	s		
	(2) Two triangular bases a	and three r	ectangular lateral si	ides		
	(3) Two square bases and	l three tria	ngular lateral sides			
	(4) Three triangular bases	s and two i	ectangular lateral si	ides		
Ans.	(2)					
Sol.	Trigonal prism of glass ha	as two squa	are bases and three	triangular lateral sides.		
<b>56</b> .	Which of the following or	ccurs due t	o atmospheric refra	ction?		
	(1) (i) Twinkling of stars			(ii) Advance sunrise and	l late sunset	
	(2) (i) Brown colour of cle	ear sky		(ii) Persistence of red co	lour during sunrise and sunset	
	(3) (i) Formation of rainbe	ow		(ii) Tyndall effect		
	(4) (i) Twinkling of stars			(ii) Brown colour of clea	nr sky	
Ans.	(1)					
Sol.	Twinkling of stars and ad	vance sun	rise and late sunset	occur due to atmospheric re	efraction.	
57.	What generates ocean the	ermal ener	gy?			
	(1) accumulation of energy	gy due to c	ocean currents	(2) difference in pressur	e of various levels of sea	
	(3) difference in tempera	ture of var	ious levels of sea	(4) occurrence of waves	in sea (tides)	
Ans.	(3)					
Sol.	Difference in temperature	e of various	s levels of sea genera	ates ocean thermal energy.		

<b>58</b> .	For manufacture of solar	cell and solar panel which eler	ments are used in sequence	to join internal parts of cell?	
	(1) Copper and silver	(2) Silver and silicon	(3) Silicon and silver	(4) Silicon and aluminium	
Ans.	(1)				
Sol.	For manufacture of solar	cell and solar panel, Copper a	nd silver are used in sequer	nce to join internal parts of cell.	
<b>59</b> .	Which of the following gr	oups is biodegradable?			
	(1) Grass, wood, and pla	astic	(2) Grass, flowers and le	eather	
	(3) Fruit peels, bleaching	powder and PVC	(4) Cake, polythene and	glass	
Ans.	(2)				
Sol.	Grass, flowers and leathe	r are biodegradable substance	S.		
60.	Two ends of an unknown resistor are connected to 12 V battery, 2.5 mA current flows in the circuit. Calculate the resistance of unknown resistor.				
	<ol> <li>1200 Ω</li> </ol>	(2) 2400 Ω	(3) 3600 Ω	$(4)4800\Omega$	
Ans.	(4)				
Sol.	V = 12 V				
$I = 2.5 \text{ mA} = 2.5 \times 10^{-3} \text{ A}$					
	$R = 12 / 2.5 \times 10^{-3} = 4.3$	$8 \times 10^3 = 4800 \Omega$			
61.	Through which battle, Br	ritish East India Company was	established in India?		
	(1) Battle of Buxar	(2) First Maratha revolt	(3) Battle of Plassey	(4) Second Mysore revolt	
Ans.	(3)				
Sol.	Through Battle of Plasse	y, British East India Company	was established in India		
<b>62</b> .	Who has given specific co	ontribution in the formation of	United Nations?		
	(1) American Chief Wood	drow Wilson	(2) British Prime Minister	r Lord George	
	(3) Head/President of Fra	nce Fulmenso	(4) OrLando from Italy		
Ans.	(1)				
Sol.	American Chief Woodro	w Wilson has given specific cor	ntribution in the formation o	f United Nations	
63.	How many maximum pa	articipants can be sent by every	country to attend General .	Assembly of United Nations?	
	(1) Two	(2) Five	(3) Four	(4) Three	
Ans.	(2)				
Sol.	Maximum five participar	its can be sent by every countr	y to attend General Assemb	ly of United Nations	
<b>64</b> .	When did Indian Nationa	l Congress demanded for com	plete independence (Poorna	Swaraj)?	
	(1) Karachi Session (1930	D)	(2) Kolkata Session (1933)		
	(3) Mumbai Session (193	34)	(4) Lahore Session (1929	9)	
Ans.	(4)				
Sol.	Indian National Congress	demanded for complete indep	pendence (PoornaSwaraj) ir	Lahore Session (1929)	
<b>65</b> .	Who was appointed as fin	rst Indian Governor General?			
	(1) Chakravarti C. Rajgoj	palachari	(2) MotiLal Nehru		
	(3) JawaharLal Nehru		(4) KanhaiyaLalMunshi		
Ans.	(1)				
Sol.	Chakravarti C. Rajgopala	achari was appointed as first In	dian Governor General.		

66.	Who was the president of constitutional drafting committee?				
	(1) Dr. Rajendra Prasad	(2) Motilal Nehru			
	(3) Dr. BhimraoAmbedkar	(4) KanhaiyaLalMunshi			
Ans.	(3)				
Sol.	Dr. Bhimrao Ambedkar was the President of constitutiona	al drafting committee.			
<b>67</b> .	Which right is considered as "Soul of the constitution" by I	Dr. BhimraoAmbedkar?			
	(1) Right to Freedom	(2) Right to follow any religion			
	(3) Educational and cultural right	(4) Right to constitutional remedies			
Ans.	(4)				
Sol.	Right to constitutional remedies is considered as "Soul of	the constitution" by Dr. BhimraoAmbedkar			
<b>68</b> .	When did chairman of Loksabha can excise casting vote	?			
	(1) If Prime Minister is absent in House (Parliament).				
	(2) If equal votes are dropped in favour or against in the h	nouse.			
	(3) If bill is passed for the amendment in fundamental rig	hts.			
	(4) If it is Money-bill.				
Ans.	(2)				
Sol.	Chairman of Loksabha can excise casting vote if equal vo	otes are dropped in favour or against in the house.			
<b>69</b> .	Who decides that the bill is a money bill?				
	(1) Finance minister				
	(2) Prime minister				
	(3) President				
	(4) Chairman of the Loksabha (Speaker) decides that the	e bill is a money bill			
Ans.	(4)				
Sol.	Chairman of the Loksabha (Speaker)				
<b>70</b> .	Who is the chairman of RajyaSabha?				
	(1) The person nominated by the president.	(2) Vice President			
	(3) The member of RajyaSabha selects any one of them	(4) The person nominated by the Prime Minister			
Ans.	(2)				
Sol.	Vice President is the chairman of RajyaSabha				
71.	Which meridian is followed as Indian Standard time?				
	(1) 81°.20' east meridian	(2) 80°.00' east meridian			
	(3) 82°.30' east meridian	(4) 81°.50' east meridian			
Ans.	(3)				
Sol.	82°.30' east meridian is followed as Indian Standard time	2.			
72.	Which of the following is a salt water lake?				
	(1) Sambhar lake (2) Nallake(Sarover)	(3) Wularlake (4) Bhimtaal lake			
Ans.	(2)				
Sol.	Nallake(Sarover) is a salt water lake				
73.	Which seasonal winds bring rain in Gujarat?				
	(1) South-West seasonal winds	(2) WINDS IFOM BAY OF BENGAL			
<b>A</b> .	(5) Ketreating monsoon winds	(4) WINDS IFOM Arabian sea			
Ans.	(1, 4)				
<b>Sol</b> .	. South-west seasonal winds, Winds from Arabian sea seasonal winds bring rain in Gujarat				

74.	Which animal is extinct	from Indian forest?			
	(1) Panther	(2) Lion	(3) Tiger	(4) Rhinoceros	
Ans.	(1)				
Sol.	Panther(Cheetah) is ext	inct from Indian forest			
75.	Which fair is not held in	n Gujarat?			
	(1) Taranetar Fair	(2) Kumbh fair	(3) Vautha fair	(4) Bhavnath fair	
Ans.	(2)				
Sol.	Kumbh fair is not held i	n Gujarat.			
<b>76</b> .	Where is Ashoka's pillar	located in Gujarat?			
	(1) Patan	(2) Vadnagar	(3) Junagarh	(4) Siddhpur	
Ans.	(3)				
Sol.	Ashoka's pillar located J	Junagarh			
77.	Where in Gujarat Tana-	Riri Mahotsav is celebrated?			
	(1) Vadnagar	(2) Vijaynagar	(3) Modhera	(4) Taranetar	
Ans.	(1)				
Sol.	In Gujarat Tana-Riri Ma	hotsav is celebrated Vadnagar			
<b>78</b> .	Which city of Gujarat is	famous for its Women's Silk Ga	rment?		
	(1) Surat	(2) Ahmedabad	(3) Patan	(4) Jetpur	
Ans.	(3)				
Sol.	Patan is famous for its V	Women's Silk Garment			
<b>79</b> .	Which is famous as cen	ter of Kasab (a gold or silver thre	ad) for Jariwork (embroider	y)?	
	(1) Varanasi	(2) Lucknow	(3) Jaipur	(4) Surat	
Ans.	(4)				
Sol.	Surat is famous as cente	er of Kasab (a gold or silver threa	d) for Jariwork (embroidery	))	
<b>80</b> .	Which is imitated Tribal	Dance form "Chalo dance" in G	Sujarat?		
	(1) Violent animals	(2) Birds	(3) Domestic animals	(4) Wild animals	
Ans.	(2)				
Sol.	Birds is imitated Tribal I	Dance form "Chalo dance" in Gu	ijarat.		
81.	Which information is given by the second sec	ven in couplet of Rigveda?			
	(1) To sing the different	shloka of Veda in Lyrics	(2) Different mantras and	l rituals to perform Yagya	
	(3) Information regardir	ng "Description of Karamkand"	(4) To praise god		
Ans.	(4)				
Sol.	In Rig-Veda most of the	verses are prayers of God.			
<b>82</b> .	Which was famous "Ed	ucation Center in 7th Century A	D.?		
	(1) Nalanda	(2) Vallabhi	(3) Takshila	(4) Lothal	
Ans.	(2)				
Sol.	Vallabhi university of G	ujarat was a very famous centre	of education in 7th century		
<b>83</b> .	What was described by	Maharishi Charaka in "CharakS	amhita"?		
	(1) Metallic ash	(2) Chemical methods	(3) Medicines	(4) Surgery	
Ans.	(3)				
Sol.	MaharshiCharak has written a book 'CharakSamhita' in which he has mentioned over 2000 medicinal herbs.				

<b>84</b> .	"Earth rotates on its own axis" who had proved this?					
	(1) Maharishi Charaka	(2) AcharyaNagarjuna	(3) Maharishi Sushruta	(4) Aryabhatta		
Ans.	(4)					
Sol.	Aryabhatta, the great Gupta age astronomer declared that the earth rotates on its own axis and he proved that the basic reason for lunar eclipse is the shadow of the earth.					
<b>85</b> .	Which soil is best for cultiv	vation of cotton?				
	(1) Red soil	(2) Black soil	(3) Sandy soil	(4) Marshy soil		
Ans.	(2)					
Sol.	Black soil is more suitable cotton soil.	for production and growth of	cotton crop. That is why th	is soil is well known as black		
<b>86</b> .	Which is ubiquitious (conve	enient) resource?				
	(1) Water	(2) Land	(3) Petroleum	(4) Oxygen		
Ans.	(4)					
Sol.	Oxygen is ubiquitious (con	venient) resource.				
87.	Where in Gujarat, migrato	ry birds come to spend winter?				
	(1) Gir	(2) Kutch	(3) Nal Lake (Sarovar)	(4) Dang		
Ans.	(3)					
Sol.	During winter, migratory Sarovar in Gujarat to spen	birds from distant places come id winter.	e to India like Keoladev Na	tional Park (Bharatpur), Nal		
<b>88</b> .	Where is Gujarat's Nationa	al Park located?				
	(1) Velavadar	(2) Nilgiri	(3) Sundarvan	(4) Pachmarhi		
Ans.	(1)					
Sol.	Velavadar is a National pa	ark situated in Gujarat.				
<b>89</b> .	Which is Rabi Crop?					
	(1) Groundnut	(2) Wheat	(3) Paddy	(4) Cotton		
Ans.	(2)					
Sol.	The rabi crops include whe	eat, barley, gram and oilseeds.				
<b>90</b> .	Gujarat ranks first in the w	orld for production of which cr	op?			
	(1) Groundnut	(2) Cotton	(3) Cumin seed	(4) Tobacco		
Ans.	(3)					
Sol.	Gujarat ranks first in the p	roduction of cumin seed, fenne	el seed and isabgul in the wo	rld.		
91.	Which is the chief resource	e of surface water on the earth?	)			
	(1) Rivers	(2) Wells	(3) Lakes	(4) Pond		
Ans.	(1)					
Sol.	The water on the surface the earth is found in the form of river, lake, pond, sea streams etc. It is called surface water. Rivers are the main source of surface water					
<b>92</b> .	Where in India undergrou	nd water is in abundance?				
	(1) Southern plateaus	(2) Mountain ranges	(3) Sandy plains	(4) Northern plains		
Ans.	(4)					
Sol.	The volume of ground water is unlimited. In the Northern plains of India, there is about $42~\%$ of ground water.					

- 93. Which is not a characteristic of people living below the poverty line?
  - (1) Majority of them are literate
  - (2) Do not get sufficient meals twice in a day
  - (3) Average age of people is less than National average rate of people
  - (4) Suffering from acute and chronic diseases

#### Ans. (1)

- Sol. Poor people are generally illiterate.
- 94. What facilities are provided by the central government for people living below poverty line?
  - (1) Means of entertainment for recreation
    - (2) Books for reading
    - (3) Essential basic needs like cereals, sugar, oil, salt etc.
    - (4) Clothes for protection

## Ans. (3)

- **Sol.** Essential basic needs like cereals, sugar, oil, salt etc., are provided by the central government for people living below poverty line.
- **95.** Who is termed as "absolute poor"?
  - (1) Homeless poor
  - (2) Illiterate
  - (3) Do not get primary treatment
  - (4) Not able to fulfill their basic needs like (cereals, pulses, milk, vegetables) through local market.
- Ans. (4)
- **Sol.** Those people of the society who are not able to purchase the basic necessities of life like food grains, pulses, milk, vegetables at lowest market rate are said to be absolute poor.
- 96. Which people are living below poverty line in rural area?
  - (1) Businessman
  - (3) Owners of cottage industries

- (2) Farm labourers without land
- (4) Have sources of income but poor lifestyle

## Ans. (2)

- **Sol.** Generally Farm labourers without land were living below poverty line in rural area.
- **97.** What is the cause of increasing unemployment?
  - (1) Increased demand of educational qualification.
  - (2) More numbers of labourers as compared to demand of labour.
  - (3) Increased health facilities.
  - (4) Increase in ability to purchase.

## Ans. (2)

- Sol. More numbers of labourers as compared to demand of labour is the cause of increasing unemployment
- 98. Which programmes are executed by central government for eradication of poverty in urban areas?
  - (1) Development of agriculture
  - (3) Animal husbandry support (4) Development of large, small and cottage industries

(2) Afforestation

- Ans. (4)
- **Sol.** Development programmes for large, small and cottage industries are executed by central government for eradication of poverty in urban areas.

99. Which state has highest rate of unemployment?(1) Himachal Pradesh (2) Haryana

(3) Uttar Pradesh

(4) Manrega Scheme

(4) Karnataka

- Ans. (3)
- Sol. In India more unemployment has been witnessed in states like Sikkim, Kerala, West Bengal, Uttar Pradesh, Chattisgarh, Jammu-Kashmir, Tripura.
- **100.** Which scheme is implemented by the government of Gujarat for ensuring food security?

(1) Maa Annapoorna Scheme

(3) Mukhya Mantri Gram-Sadak Yojana

(2) Van bandhu Kalyan Scheme

Ans. (1)

**Sol.** Under this programme absolute poor families and people living below poverty line in cities and villages are given 35 Kg food grains per family every month by Gujarat Government which is provided free of cost and the poor people of middle class are given 5 Kg food grains at low rate.