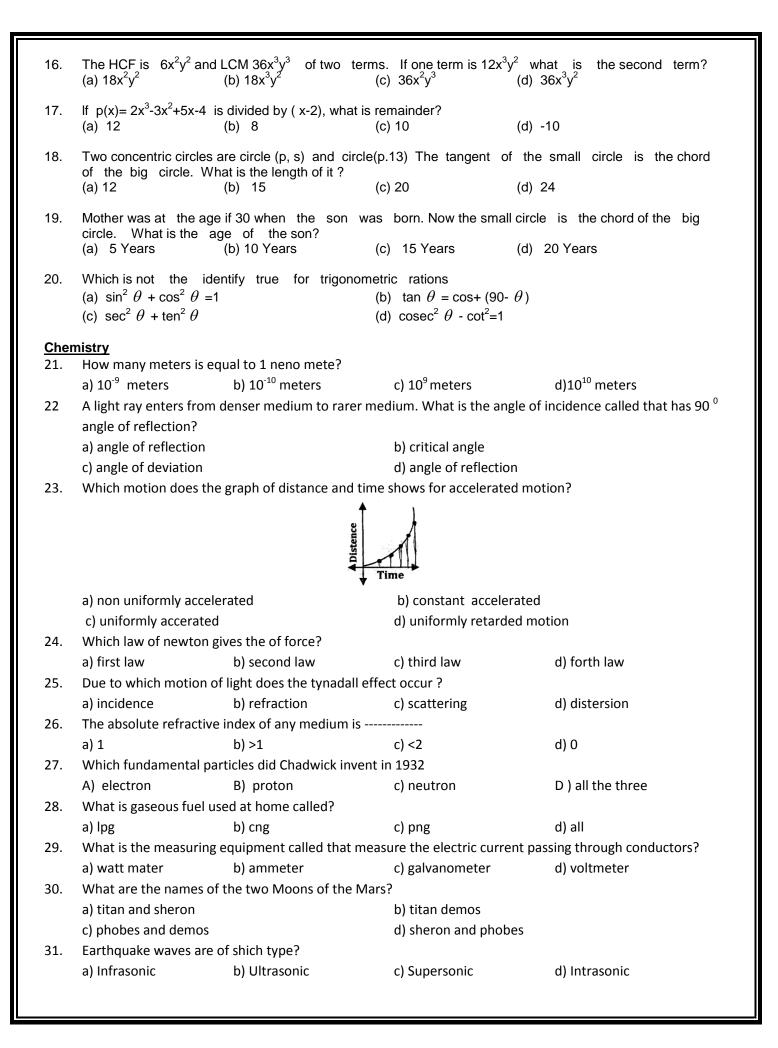
NTSE 2015 Gujarat Region SAT

Mathe	matics
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1.	Which the smallest nur (a) 5	mber that devises 1512 is (b) 6	the complete the cube? (c) 7	(d) 9
2.	Which number is the in	verse of the opposite of -	$-\frac{5}{8}$?	
	(a) $\frac{5}{8}$ 8	(b) $1\frac{3}{5}$	(c) $2\frac{2}{5}$	(d) $-\frac{8}{5}$
3.	What is value of $(a^{10})^3$ (a) a	÷ (a ⁶) ⁵ ? (b) a2	(c) 1	(d) 1/a
4.	If $x = \sqrt[4]{16} + \sqrt[4]{625}$ the (a) 7	nan what is x = ? (b) 29	(c) 12	(d) 5
5.	What is the co-efficient (a) 3	of $(x+y)^2$ in the expan (b) 4	sion of x ² y ² ? (c) 5	(d) 6
6.	The proportion of the (a) Parallelogram	angles a quadratic is 2;5 (b) Rhombus	5;7;4. What type of quad (c) cyclic quadrilateral	
7.	what is the formula for (a) 2 π Rh	finding the area of an σ (b) π r^2 h	open cylinder with bas (c) π r (24+r)	e ? (d) 2 π r (4+r)
8.	The diameter of roller is many square meter do (a) 440 sq meter		3 meter. If it roles 100 ro (c) 880 sq meter	ounds in a same direction. How (d) 4400 sq meter
9.	If universal set U={3.4 (a) {4,6})	4.5.6.7} set A={5,7.8} and (b) {3,6)	B= $\{4,5,8\}$ A' \cap B'? (c) $\{3.7\}$	(d) {3,4)
10.	The printed prize of a s price of the sari? (a) Rs.1600	eari is Rs.2000. If after dis	scount of 10% the profition (C) Rs.1500	t is 20 % Then what is the net (D) Rs. 1800
11.	The median of 7, 5, 8, 2	x,12, 17 is 10. Then what (b) 11	is the value of X	(d) 9
12.	0 of which quadratic (a) $x^2 + 7x + 12$	polynomial are 4 and 3. (b) x^2 - 7x+12	(c) $x^2 + 7x-12$	(d) $x^2-7x-12$
13.	If $\frac{x}{3}$ + 7=15 $-\frac{x}{5}$ then	find the solution ?		
	(a) x=20	(b) x=15	(c) x=21	(d) x=18
14.	probability of the se	election of white rose		rose is selected randomly. The
	(a) $\frac{5}{14}$	(b) $\frac{1}{7}$	(c) $\frac{1}{2}$	(d) 1
15.	If one factor of $27x^3$ + (a) $(3x^2$ -4y)	- $64y^3$ is $(3x+4y)$ what is (b) $(3x^2+12xy+4y^2)$	the second factor ? (c) $(9x^2+12xy-16y^2)$	(d) (9x ² -12xy+16y ²)



32.	treatment?			
	a) urology	b) radiology	c) histology	d) pathology
33.	The initial velocity of the a) more	e free falling object is b) less	? c) zero	d) 9.8m/s
Phys	ics			
34.		on between acid and base,	Salt and water are formed	. What is the process called?
	(A) Newtralization	(B) Corrosion	(C) Hydrolysis	(D) Ionization
35.	Which of the following is	s a strong acid?		
	(A) Acitic Acid	(B) Cytric Acid	(C) Nitric Acid	(D) Oxalic Acid
36.	Which method is used for	or concentration of those o	res obtained in the Sulphid	e form?
	(A) Magnetic separation	(B) Centrifugation	(C) Froth Flotation Meth	nod (D) Calcinations
37.	Which of the following p	pairs is not suitable for orga	anic functional group of the	carbonic compound?
	(A) Carboxylic acid – COOH		(C) Aldehyde -CHO	
	(B) Ketone - > C=0		(D) Ester OH	
38.	What is the chemical na	me of the quick line ?		
	(A) Calcium Oxide		(C) Calcium Hydroxide	
	(B) Calcum Carbonate		(D) Carbon Dioxide	
39.	Which of the following is a compound?			
	(A) Iron	(B) Washing Soda	(C) Air	(D) Mercury
40.	40. While preparing CO_2 in laboratory on which of the following substances hydrochloride acid is poured			chloride acid is poured?
	(A) Pieces of Zinc		(B) The practices of cop	oer Sulphur
	(C) Pieces of marble		(D) Ammonium Chloride	2
41.	Which of the following g	gases is used to show the cl	ouds or artificial smoke in f	ilm or drama?
	(A) Carbon Dioxide	(B) Oxygen	(C) Nitrogen	(D) Hydrogen
42.	Which of the following r	elations between mole and	d mass correct?	
	(A) $Mass = \frac{Weight}{Mass}$		(B) $Weight = \frac{Mass}{Mole}$	
	(C) $Mole = \frac{Weight}{Atomic weight}$	ght	(D) All of them	
43.	From which following relation between mole and mass correct?			

	(A) Aluminum		(B) Manganese Dioxide		
	(C) Zinc Phosphide		(D) Potassium Permanganate		
44.	Which are the components of stainless steel?				
	(A) copper, zinc, nickel		(B) Iron, Carbon, Tin		
	(C) Iron, Chromium, Nic	kle	(D) copper, chromium, Ti	n	
45.	What is the electronic of	configuration of Sulphur?			
	(A) 2, 6, 8	(B) 2, 4, 8	(C) 2, 8, 6	(D) 2, 6, 4	
46.	How many atoms are th	nere in a compound of a mole	e?		
	(A) 60.22×10^{-23}	(B) 602.2×10^{-23}	(C) 6.022×10^{23}	(D) 6022×10^{23}	
Bio	logy				
47.	Which of the following	factors does a plant use for t	he process of photosynthes	is?	
	(A) Sunlight	(B) Chlorophyll	(C) CO ₂ and H ₂ O	(D) All of them	
48.	During chemical reaction (A) Neutralization	on between acid and base, Sa (B) Corrosion	lt and water are formed. W (C) Hydrolysis	hat is the process called? (D) Ionization	
49.	Which is the longest organ of the digestive system?				
	(A) Oesophagus		(B) Stomach		
	(C) Small Intestine		(D) Large Intestine		
50.	What is the name of the	e blood vessels that provide r	nutrition of the heart wall?		
	(A) Pulmonary Arteries	(B) Coronary arteries	(C) Pulmonary Veins	(D) Descending	
51.	Which organelle is cons	idered as a suicide bag?			
	(A) Centrosome	(B) Mososomes	(C) Lysosomes	(D) chromosome	
52.	Which one of the follow	ving pairs is not correct?			
	(A) The pituitary gland -	- Adrenalin	(B) Pancreas – Insulin		
	(C) Ovary – Estrogen		(D) Testis – Testosterone		
53.	Which is the common n	nethod of artificial reproduct	ion is plants?		
	(A) Cutting	(B) Layering	(C) Grafting	(D) All of them	
54.	With what are the diese	es like Swine Flu, Dengue and	l Chikungunya Fever spread	?	
	(A) Bacteria	(B) Virus	(C) Parasites	(D) Fungi	

55.	Living mechanical tissue is:			
	(A) Parenchyma	(B) collenchymas	(C) Sclerenchyma	(D) Chlorenchyma
56.	Which plant leaves hav	e a parallel venation?		
	(A) Peepal leaves		(B) Hibiscus leaves	
	(C) Banana leaves		(D) Banyan tree leaves	
57.	For which of the follow	ing diseases vaccine has not	been invented yet?	
	(A) Jaundice	(B) cholera	(C) Typhoid	(D) Chikungunya
58.	The inner layer of the p	harynx of a frog is made of _	Epithelium.	
	(A) Squamous	(B) Cuboidal	(C) Ciliated	(D) columnar
59.	Which of the following	gases mainly increases globa	I warming?	
	(A) Carbon monoxide	(B) Nitrous oxide	(C) Carbon dioxide	(D) Sulphur dioxide
60.	Which of the following	is the example of the waste b	pio-decomposition of living	beings?
	(A) Vegetable	(B) Glass	(C) Plastic	(D) Metal
Soci	ial Science			
61.	Which method is used	to known the time line of the	chronological remains?	
	(A) Dropping method	(B) Metric Dating Method	(C) Carbon dating method	d (D) All of them
62.	With which governor G	enral's efforts did the teachi	ng of English language begi	n in India?
	(A) Lord Cornwallis	(B) Lord Ripon	(C) Lord Macaulay	(D) Lord Hastings
63.	Who started the 'Dak C	choki' Tapal method which me	eans 'Ghodesvar Sathe tapa	ali no halkaro?
	(A) Gyasuddin Tugluk	(B) Allauddin Khilji	(C) Razia Sultana	(D) MOhd. Tuglak
64.	Which of the following	symbols in map indicates Rai	lway?	
	(A)	(B) (C)	(D)/	,
65.	Where is the headquar	ters of the United Nation (UN	1)?	
	(A) rome	(B) Paris	(C) Washington	(D) New York
66.	By which pass of the Hi	malayas can we easily travel	for the pilgrimage of the Ka	ailash Mansarovar?
	(A) The Shitkila Ghat	(B) The Nathula Ghat	(C) The Jelpala Ghat	(D) The Karakoram Ghat
67.	Which institution has b	een formed by justice Mahac	dev Govind Ranade for socia	al reform?
	(A) The Brahmosamaj	(B) The Aryasamaj	(C) The Prarthanasamaj	(D) The Satyasodhaksamaj

68.	Which of the following rivers does not meet the Ganga?					
	(A) The Koshi	(B) The Chambal	(C) The Shon	(D) The Gandak		
69.	Whose statue is there in	hose statue is there in front of the Vidhan Sabha of Gujarat in sitting posture?				
	(A) Vitthalbhai Patel	(B) Vallabhbhai patel	(C) Mahatma Gandhi	(D) Dr. Jivraj Mehta		
70.	Which of the following r	rivers meets the river Krishna	n?			
	(A) The Tungbhadra	(B) The Koyna	(C) The Ghatprabha	(C) All of them		
71.	In which states there is	'Amravrishti' at the end of th	e summer and just before	the setting of the monsoon?		
	(A) Tamilnadu and Telar	ngana	(B) Kerala and Karnatka			
	(C) Andhrapradesh and	Tamilnadu	(D) Andhrapradesh and T	elangana		
72.	By which name is the Bh	nagirathi Ganga known as aft	er it orginates from the Gai	ngotri?		
	(A) Padma	(B) Jamuna	(C) Meghna	(D) All of three		
73.	Which country has the I	argest written constitution?				
	(A) Britain	(B) France	(C) India	(D) America		
74.	What was the name of the inspiring guru of Harihar and Bukkaray that had setup the Hindu Maharajya-Vijaynagar on the shore of Tungbhadra?					
	(A) Acharya Shibhadra Swami	(B) Swami Ramtirtha	(C) Vidyaranya Swami	(D) Guru Virajanand		
75.	What is the position of I	ndia in the world with refere	ence to area?			
	(A) 6 th	(B) 7 th	(C) 8 th	(D) 9 th		
76.	Which country is called	the land of 'Midnight Summe	er'?			
	(A) Sweden	(B) Norway	(C) Spain	(D) Portugal		
77.	Where did Vastupal and	Tejpal, the ministers of the	Rana Vir Dhaval of Dholka,	built the Jain temple?		
	(A) Delwara (Abu)	(B) Palitana	(C) Girnar	(D) All of them		
78.	Which Veda of the Arya	Which Veda of the Aryas is called the 'Gangotri of music?				
	(A) The Rigveda	(B) The Yajurveda	(C) The Samveda	(D) The Atharvaveda		
79.	In which state of India w	vas the Panchayat Raj was es	tablished first?			
	(A) Gujarat	(B) Rajasthan	(C) Maharashtra	(D) Madhya Pradesh		
80.	Of which Indian classical dance is the plaited green coloured petticoat, kumin, silk blouse and belt around the waist the characteristics?					

	(A) Manipuri	(B) Kathak	(C) Bharatnatyam	(D) Kathakali		
81.	Which of the followings	s is not written by Mahakavi	Kalidas in Sanskrit?			
	(A) Abhigyan Shakuntal	am	(B) Kadambari			
	(C) Rutusamhar		(D) Kumarsambhavam			
82.	In which caves is the gro	eat piece of the Indian sculpt	ture Kailash temple situated	re Kailash temple situated?		
	(A) Ajanta	(B) Ellora	(C) Elaphanta	(D) Bagh		
83.	In which of the followin	g is not our neighbor countr	y?			
	(A) Nepal	(B) Bhutan	(C) Iran	(D) Srilanka		
84.	Which is the highest po	sition in the Indian Army?				
	(A) Field Marshall	(B) Admiral	(C) Air Chief Marshall	(D) Lt. General		
85.	Which is the state of India that has the largest area?					
	(A) Uttar Pradesh	(B) Maharashtra	(C) Rajasthan	(D) Madhya Pradesh		
86.	What amount of the nation income of India is obtained from agriculture?					
	(A) 65%	(B) 26%	(C) 62%	(D) 22%		
87.	Who was the first speaker of the Lok Sabha in India?					
	(A) Neelam Sanjeev Reddy		(B) Mirakumari			
	(C) Ganesh Vasudev Mavlankar		(D) Sumitra Mahajan			
88.	Of which religion is the	'Tripitika' the Holy Book belo	ongs?			
	(A) Jain	(B) Hindu	(C) Buddha	(D) Islam		
89.	What is the 'Mahabhini	shkkkramana'?				
	(A) The renunciation of Mahavir		(B) The Shankaracharya became Sanyasi			
	(C) The renunciation of Buddha		(D) The renunciation of Guru Nanak			
90.	Which Indian state has	been given special rights in c	our constitution?			
	(A) kerala	(B) Assam	(C) Nagaland	(D) Jammu & Kashmir		
91.	Which right is not enlist	ted in the list of the Fundame	ental rights?			
	(A) Right to Protection a	against Exploitation	(B) Right to Property			
	(C) Right to Liberty		(D) Right to Education an	d Culture		

92.	What is the duration (Time limit) for the member of the Rajya Sabha?			
	(A) 4 Years	(B) 5 Years	(C) 6 Years	(D) 10 Years
93.	Who was the first chairn	man of the Indian Constitutio	n Assembly?	
	(A) Jawaharlal Nehru		(B) Dr. Rajendraprasad	
	(C) Dr. B. R. Ambedkar		(D) Dr. Sarvapalli Radhakr	ishna
94.	The river Tsangop flow Barva'?	vs through Tibet, in which sta	te does it enter after takinį	g 'U' to from 'Namcha
	(A) Assam	(B) Meghalaya	(C) Arunchal Pradesh	(C) Nagaland
95.	The 16 th October is obse	erved as "Mourning day' whic	ch occurance is the reason of	of it?
	(A) The Jaliyawala Bag N	Massacre Massacre	(B) The Dandi Kuch	
	(C) Bhang Bhang		(D) All of them	
96.	How many are the factors of production?			
	(A) 3	(B) 4	(C) 2	(D) 5
97.	The concept of Human o	development number was ac	cepted by	
	(A) WHO	(B) UNO	(C) UNDP	(D) UNICEF
98.	Which year was declared 'The International women's Year by the UNO?			
	(A) 1975	(B) 2002	(C) 1990	(D) 2001
99.	The Indian Standard Time line passes from the city. Which is that?			
	(A) Aurangabad	(B) Lucknow	(C) Allahabad	(D) Hyderabad
100.	In which state is the Kanchanajangha Park situated?			
	(A) Manipur	(B) Nagaland	(C) Sikkim	(D) Arunachal Pradesh