Atomic Energy Central Schoool No.4 Rawatbhata											
	Multiple Choice Test for the Month of April 2019										
MM	<b>1</b> : 100	Class	IX (	Maths, Scien	nce &	& Social Science	)	Time: 90 Minutes			
				· · ·							
1 If $x^2 + kx + 6 = (x + 2)(x + 3)$ for all x, then the value of k is											
	(A)	1	(B)	-1	(C)	5	(D)	3			
2	2 is a	polynomial of degr	ee								
	(A)	2	(B)	0	(C)	1	(D)	none of these			
3	Whic	h of the following is	s irrati	onal?							
	(A)	0.14	(B)	0.1416	(C)	0.4014	(D)	0.4014001400014,			
4	Degre	ee of the zero polyno	omial	is							
	(A)	0	(B)	1	(C)	any natural number	(D)	not defined			
5	If $p(x)$	x = x + 3, then $p(x)$	+ p(	x) is equal to							
	(A)	3	(B)	2x	(C)	0	(D)	6			
6	If $x +$	1 is a factor of the	polync	omial $2x^2 + kx$ , the	en the	value of <i>k</i> is					
	(A)	-3	(B)	4	(C)	2	(D)	-2			
7	Whic	h of the following is	s a fac	tor of $(x + y)^3 - (x + y)^3$	$x^{3} + y^{3}$	<sup>3</sup> )?					
	(A)	$x^2+y^2+2xy$	(B)	$x^2+y^2-2xy$	(C)	xy <sup>2</sup>	(D)	Зху			
8	If a =	$2+\sqrt{3}$ , the value of a	a – 1/a	will be							
	(A)	2√3	(B)	3√2	(C)	0	(D)	2-√3			
9	The v	value of x , if $(6/5)^{x}(5)$	$(5/6)^{2x} =$	$=\frac{125}{216}$							
	(A)	3	(B)	2	(C)	4	(D)	0			
10	If $4^{2x}$	$-16^{x-1} = 384$ , then v	alue x	will be							
	(A)	4/11	(B)	11/4	(C)	11/8	(D)	8/11			
11	If a=8	$3+3\sqrt{7}$ and $b=\frac{1}{a}$ , then	n valu	e ofr $a^2 + b^2$ will	be						
	(A)	254	(B)	452	(C)	542	(D)	None of these			
12	The v	value of 1.999 in th	he form	m $p/q$ , where $p$ and	d q ar	the integers and $q \square \square 0$	)				
	(A)	$\frac{19}{22}$	(B)	1999	(C)	2	(D)	$\frac{1}{2}$			
13	Value	$e \text{ of } (256)^{0.16} \times (256)^{0}$	<sup>0.09</sup> is	1000				9			
	(A)	4	(B)	16	(C)	64	(D)	256.25			
14	Every	rational number is									
	(A)	a natural number	(B)	an integer	(C)	a real number	(D)	a whole number			
15	The p	product of any two in	rration	al numbers is							
	(A)	always an irrational number	(B)	always a rational number	(C)	always an integer	(D)	sometimes rational, sometimes irrational			
16	If p(x	$=x^2-2\sqrt{2x+1}$ then	p(2√2	) is equal to							

	(A) 0	(B) 1	(C) 4√2	(D)	8√2 +1
17	A rational number betwe	een $\sqrt{2}$ and $\sqrt{3}$ is			
	(A) $\sqrt{2} + \sqrt{3}$	(B) $\sqrt{2} \times \sqrt{3}$	(C) 1.5	(D)	1.8
18	2	2			
10	The value of $\frac{\sqrt{32+\sqrt{4}}}{\sqrt{2}+\sqrt{12}}$	$\frac{8}{2}$ is equal to			
	(A) $\sqrt{2}$	(B) 2	(C) 4	(D)	8
19	Zero of the zero polynom	nial is			
	(A) 0	(B) 1	(C) Any real n	umber (D)	Not defined
20	If $a + b + c = 0$ , then $a^3 + b^3 + c^3 = 0$	$b^3 + c^3$ equal to			
	(A) 0	(B) abc	(C) 3abc	(D)	abc
21	The value of $(\frac{-3}{4})^3 + (\frac{-5}{2})^3$	$+(\frac{11}{2})^3$ is equal to			
	(A) 0	$(B) \frac{495}{100}$	(C) <u>25</u>	6 (D)	None of these
22	If $x = 1 + \sqrt{2}$ then value of	256	49	5	
	$\begin{array}{c} \text{(A)}  2 \end{array}$	(B) 8	(C) 6	(D)	4
23	One of the factors of (25.	$(x^2 - 1) + (1 + 5x)^2$ is			
	(A) $5 + x$	(B) $5-x$	(C) $5x+1$	(D)	10 <i>x</i>
24	If $x^{51} + 51$ is divided by 2	x + 1, the remainder is			
	(A) 0	(B) 1	(C) 49	(D)	50
25	If $a + b = -1$ , then value of	$a^3+b^3+3ab$ will be			
	(A) -1	(B) 1	(C) 0	(D)	2
26	The value of a for which	the polynomial $2x^2 + ax^2$	$x + \sqrt{2}$ has 1 as a z	ero will be	
	(A) - (2 +√2)	(B) $(2 + \sqrt{2})$	(C) 2 -√2	(D)	None of these
27	The value of $p(-\frac{2}{2})$ for $p(\frac{2}{2})$	$y = 2y^3 - y^2 - 13y - 6$ is			
	(A) $\frac{44}{44}$	(B) <u>27</u>	(C) 0	(D)	None of these
28	27	44			
	The p/q form of $0.123$	(D) 1111	(C) 11		None of these
	$(A) = \frac{111}{900}$	(B) <u>1111</u> 999	(C) <u>11</u> <u>99</u>	(D)	None of these
29	If $a = \frac{2+\sqrt{5}}{2-\sqrt{5}}$ and $b = \frac{2-\sqrt{5}}{2+\sqrt{5}}$	the the value of $a^2 + b^2$	will be		
	(A) - 144√5	(B) $144\sqrt{5}$	(C) 140√5	(D)	None of these
30	If $x + y = 12$ and $xy = 27$	, find the value of $x^3 + y^3$	$y^3$ .		
	(A) 756	(B) 726	(C) 426	(D)	none of these
31	The polynomial $p(x) = x$	$x^4 - 2x^3 + 3x^2 - ax + 3x^2 - ax^2 + 3x^2 - 3x^2 + 3x^2 $	3a - 7 when divis	ided by $x + 1$ leav	/es
	(A) $5$	(B) 4 (B) $\frac{a}{a}$	(C) 2	(D)	0
32	If $a + b + c = 5$ and $ab + c = 5$	bc + ca = 10, then value	ue of $a^3 + b^3 + c^3 - c^3 $	3 <i>abc</i> will be	
	(A) 20	(B) - 25	(C) - 15	(D)	- 10
33	The value of $m$ , so that $x$	$x - 1$ be a factor of $8x^4 +$	$4x^3 - 16x^2 + 10x +$	m will be	
	(A) -6	(B) 6	(C) 4	(D)	0

34	The value of the polynomial $3x^3 - 4x^2 + 7x - 5$ , when $x = -3$									
	(A) -143	(B)	143	(C)	314	(D)	341			
35	When an object undergo	bes acc	eleration							
	(A) Its speed is always increases	(B)	Its velocity is always increases	(C)	It always falls towards the earth	(D)	A force must be acting on it			
36	When a constant force is	s applie	ed on a body, it m	oves	with constant					
	(A) speed	(B)	velocity	(C)	momentum	(D)	acceleration			
37	The speedometer is a de	vice w	hich measures							
	(A) acceleration	(B)	average speed	(C)	instantaneous speed	(D)	average velocity			
38	The distance travelled b	y a free	ely falling body is	s prop	ortional to the					
	(A) mass of the body	(B)	square of the time of fall	(C)	time of fall	(D)	square of the acceleration due to gravity			
39	If the time-displacement	t graph	of a particle is pa	arallel	to the time-axis, the	velocity	of the particle is			
	(A) unity	(B)	zero	(C)	infinity	(D)	none of these			
40	The slope of a velocity-	time gr	aph represent							
	(A) acceleration of the body	(B)	speed of the body	(C)	velocity of the body	(D)	None of these			
41	A circular track has a circumference of 314 m with AB as one of its diameter. A cyclist travels from A to B along the circular path then displacement will be									
	(A) 50 m	(B)	100 m	(C)	150 m	(D)	200 m			
42	A person travels a distant displacement will be	nce of I	1.5 m towards eas	t,then	8 m toward south an	d finally	4.5m towards east, then			
10	(A) 14 m	(B)	10 m	(C)	0 m	(D)	None of these			
43	The velocity of an object	t is dir	ectly proportional	to the	e time elapsed. I he of	oject nas				
	(A) uniform speed	(B)	velocity	(C)	acceleration	(D)	variable acceleration			
44	A body moving along a be	straigh	t line at 20 m/s u	ndergo	bes an acceleration of	$f - 4m/s^2$ ,	after 2 seconds its speed will			
	(A) - 8 m/s	(B)	12 m/s	(C)	16 m/s	(D)	28 m/s			
45	A train is travelling at a $-0.5 \text{m/s}^2$ . How far the train $(A) = 260 \text{ m}$	speed ain wil	of 90 km/h.Brake l go before it is br	s are a rought	applied so as to produte to rest?	ice a uni	form acceleration of			
16	(A) 300 III Colourloss plastids are l	(B)	500 III	(C)	025 111	(D)	None of these			
40	A) Chromoplasts	B)	Chloroplasts	$\mathbf{C}$	Laucoplasts	D)	Protoplast			
17	Animal cell lacking puc	D) lei woi	uld also lack in	C)	Leucoplasis	D)	Flotoplast			
47	A) Pibosoma	B)		$\mathbf{C}$	Endoplasmia	D)	Chromosome			
48	The phenomenon by wh	ich pro	toplast of a cell s	hrinks	reticulum from the wall is	D)	Chiomosome			
	A) Osmosis	B)	Plasmolvsis	C)	Diffusion	D)	Glycolysis			
49	Which of the following	are exa	mples of prokarv	otes?			J J			
-	A) Algae	B)	Fungi	C)	Cynobacteria	D)	Protozoa			
50	The barrier between the	protop	lasm and the oute	er envi	ronment in an anima	l cell is				
	A) Cell wall	B)	Plasma membrane	C)	Nuclear membrane	D)	Cytoplasm			
1										

51	Ribosomes are the site of	of					
	A) Photosynthesis	B)	Respiration	C)	Protein synthesis	D)	Absorption
52	Which is the largest cell	organ	elle present in pla	ant cel	1?		
	A) Nucleus	B)	Chloroplast	C)	Endoplasmic reticulum	D)	Mitochondria
53	Animal cell will shrink	if kept	in	solut	ion		
	A) hypotonic	B)	hypertonic	C)	isotonic	D)	Both B & C
54	A unicellular organism	that ca	n be crystallised	is			
	A) amoeba	B)	lactobacillus	C)	spirogyra	D)	Polio virus
55	Function of centriole is						
	A) Initiate cell division	B)	Cell wall formation	C)	Formation of spindle fibre	D)	Nucleolus formation
56	Chromosomes are made	up of	nucleic acids and	1			
	A) Phosphorus	B)	Proteins	C)	Sugar	D)	Calcium
57	Carbon dioxide is solid	in stat	e below				
	A) -78.6°C	B)	-79.6°C	C)	-77.6°C	D)	-77.9°C
58	Which among the follow	ving sl	nows Tyndal effe	ect?			
50	A) Sugar solution	B)	Salt solution	C)	Egg albumin in water	D)	Both B & C
59	Which is most effective	in coo	oling	~			
	A) Water at 0°C	B)	Ice at 0°C	C)	Water at 100°C	D)	Ice at 100°C
60	Which of the following	is not	matter?				
	A) Humidity	B)	Blood	C)	Electron	D)	Moon rock
61	When a sample of hot w	vater is	cooled slowly to	room	temperature, the tem	perature	e of the sample
67	<ul><li>A) increases</li><li>Which one of the follow</li></ul>	B)	decreases	C)	remains constant	D)	Either increases or decreases
02	A) Difference	/ing se	Diffusion	would	Difference on raising t	ne temp	
	A) Diffusion, evaporation, compression of gases	Б)	solubility, compression of gases	C)	evaporation, expansion of gases	D)	solubility, compression of gases
63	Evaporation always cau	ses					
	A) Thermal expansion	B)	Liquification	C)	Cooling down	D)	All of these
64	Thermal conduction tak	es plac	ce in	~	~		
	A) Solids	B)	Liquids	C)	Gases	D)	All of these
65	A colloidal solution in v	which o	dispersing mediu	m and	dispersed phase are l	iquid an	d gas, respectively is called
	A) Sol	B)	Foam	C)	Emulsion	D)	Gel
66	Which one of the follow	ving ha	s maximum num	ber of	atoms?		
	A) 18 g of H2O	B)	18 g of O2	C)	18 g of CO2	D)	18 g of CH4
67	Seema visited a Natural of temperature and press	Gas C sure. V	Compressing Unit Vhilesharing her o	and for experie	ound that the gas can ence with friends she	be liquef got con	fied under specific conditions fused. Help her to identitythe
	A) Low temperature, low pressure	B)	High temperature,	C) 4	Low temperature, high pressure	D)	High temperature, high pressure

				low pressure				
68	Wit	h which of the follow	ving c	ountry does India	share	its northern boundar	ry?	
	A)	Myanmar	B)	Bangladesh	C)	China	D)	Pakistan
69	Wh	ich of the following	divide	s India into two e	qual p	parts?		
	A)	The Tropic of	B)	Prime Maridian	C)	Standard Maridian	D)	None of these
70	Hov	w much India's dista	nce fro	om Europe has re	duced	, after opening of Su	ez Canal	?
	A)	7000	B)	6000	C)	3000	D)	17,500
71	Nar	ne the Strait which s	eparat	es India from Sri	Lanka	1.		
	A)	The Palk Strait	B)	Gibrader	C)	Berring Strait	D)	None
72	Nar	ne the Gulf which se	parate	Strait s India from Sri I	anka			
	A)	Gulf of Mannar	B)	Gulf of Kuch	C)	Gulf of Kambat	D)	None
73	A la	ndmass bounded by	sea on	three sides is kno	own as	s:	_,	
10	A)	Coast	B)	Barchan	C)	Island	D)	Peninsula
74	Narr	row valleys between	Shiwa	lik and Himachal	are k	nown as:	2)	
, 1	A)	Tarai	B)	Duns	C)	Khadar	D)	Bhangar
75	Mor	intain peak that lies i	n the l	Karakoram Range	e is:		2)	Dhungu
10	A)	K2	B)	Kanchaniunga	C)	Mt Everest	D)	Dhaulagiri
76	It is	located on the west	side o	f the Aravalies:	0)		2)	2
	A)	Northern Plains	B)	Peninsular	C)	Coastal Plains	D)	Thar Desert
77	Out	of which sea the Hin	malaya	Plateau as uplifted?	,		,	
	A)	Tethys Sea	B)	Oral Sea	C)	Caprian Sea	D)	Dead Sea
78	Whi	ch is the northern mo	ost ran	ge of Great Hima	layasʻ	?		
	A)	Himadri	B)	Kumao	C)	Shiwalik	D)	Hiredra
70	Doni	ncular India is a part	ofw	Himalayas	19669			
1)		The Gondwana	B)		$\mathbf{C}$	Dangaa	D)	Hubric
	A)	land	D)	Aligara	C)	I aligea	D)	Tuons
80	Byv	which name the mount	ntain s	pread along the e	astern	boundary of India a	re knowi	1?
	A)	Purvachal	B)	East coast	C)	Odisha	D)	Mahendragiri
81	Narr	he the largest river of	Thar	desert.				
	A)	Gobi	B)	Luni	C)	Nile	D)	Meghana
82	To the calle	he south of Bhavar b cd	elt, th	e stream and river	rs re-e	merge and create a	wet, swa	mpy and marshy region, it is
	A)	Kankar	B)	Bhangar	C)	Terai	D)	Khadar
83	Whi	ch is the largest cont	inent o	of the world?				
	A)	Europe	B)	Asia	C)	Australia	D)	America
84	Whi	ch of these is largest	reviri	ne island in the w	orld?			
	A)	Majuli	B)	Kalijai	C)	Oman	D)	None
85	Whe	ere is Chilika lake loo	cated?					

	A)	Odisha	B)	Telengana	C)	Haryana	D)	Maharastra
86	Whe	ere is the Great Barrie	er Reef	flocated?				
	A)	Australia	B)	Austria	C)	Norway	D)	Sweden
87	Circ	cular or horse shoe sh	aped o	coral reefs are call	led			
	A)	Dune	B)	Reef	C)	Atoll	D)	Barrier
88 89	Wha A) T B) C C) T D) F Wh	at are distributaries? The rivers in the uppe Creation of small islar The rivers, in their low Horsh shoe shaped de ich of the following o	r cours nds in t ver cou epostic country	se supply water to the course of river urse, split into nur onal feature in the y larger than India	o the r r merou cours a?	iver is channels due to the se of river	e deposit	ion of silt
	A)	Sri Lanka	B)	Pakistan	C)	China	D)	Myanmmar
90	The	main production acti	vity in	village of India i	s:			
	A)	Dairy	B)	Animal	C)	Agriculture	D)	Transportation
91	Whe	eat is grown in the:		nusbandry				
	A)	Rabi season	B)	Kharif season	C)	Zayad season	D)	None of these
92	Raw	materials and mone	y in ha	nd are called:				
	A)	Physical capital	B)	Working	C)	Fixed capital	D)	None of these
93	Kno	wledge and enterpris	e is kn	own as:				
	A)	Human capital	B)	Working capital	C)	Fixed capital	D)	None of these
94	Wha	at is the standard unit	of me	asuring land?				
	A)	Hectare	B)	Miles	C)	Square	D)	None of these
95	The	ways of increasing p	roduct	ion from same la	nd is:			
	A)	Multiple cropping	B)	Modern farming methods	ς <sup>C)</sup>	Both of these	D)	None of these
96	The	highest peak in the E	astern	Ghats is		·		
	A)	Shevroy hills	B)	Javadi hills	C)	Mahendragiri	D)	Doda Betta
97	The	largest part of the no	rthern	plain formed of c	older a	alluvium is called		·
	A)	Bhabar	B)	Bhangar	C)	Terai	D)	Khadar
98	Chh	ota Nagpur plateau is	drain	ed by		river.		
	A)	Kaveri	B)	Gandak	C)	Damodar	D)	Kali
99	Him	alayan plane lying be	etween	Tista and Dihang	g rive	r is known as		Himalaya.
	A)	Punjab	B)	Nepal	C)	Assam	D)	Kumaon
100	The	width of Shiwaliks ra	ange o	f the Himalayas is	s		kn	NS.
	A)	50-100	B)	10-50	C)	50-60	D)	300-350

## Answer Key

## MCQ April May

## Class IX

1	2	3	4	5	6	7	8	9	10
С	В	D	D	D	С	D	А	А	А
11	12	13	14	15	16	17	18	19	20
А	С	А	С	D	В	С	В	С	С
21	22	23	24	25	26	27	28	29	30
В	В	С	D	А	А	А	А	D	А
31	32	33	34	35	36	37	38	39	40
А	В	А	А	D	D	С	В	В	А
41	42	43	44	45	46	47	48	49	50
В	В	С	В	С	С	D	В	С	В
51	52	53	54	55	56	57	58	59	60
С	В	В	D	С	В	А	С	В	А
61	62	63	64	65	66	67	68	69	70
В	С	С	D	В	D	С	С	А	А
71	72	73	74	75	76	77	78	79	80
А	А	D	В	А	D	А	А	А	А
81	82	83	84	85	86	87	88	89	90
В	С	В	А	А	А	D	С	С	С
91	92	93	94	95	96	97	98	99	100
A	В	A	A	C	C	В	C	C	В