Class:VIII Time:11 am to 1 p.m.

		<u>Math</u>	<u>emati</u>	<u>cs</u>		
a) 1024	·	1016	c)	1036	d) 84	
a) 1058	the least number	7923 that can be ac	c)	134387	d) 253222 it a perfect square? d) None of these	
4) The product	of two successive	e positive integ	gers in	462. Which is	the smaller integer?	
a) 20	b) 2	22	c) 21		d) 23	
	_	•			nber formed by reversing ne original number?	; is
a) 28	b) 4	18	c) 39		d) 93	
6) The product of	of three consecuti	ive numbers is	3360.	What is the lea	ast number?	
a) 17	b)	14	c) 13		d) 16	
7) Which of the	following perfec	t squares is a s	square o	of even number	r?	
a) 225	b) 7	129	c) 4	184	d) 961	
8) Which of the	following is Pyt	hagorean tripl	et?			
a) (1, 2, 3)	b) (3, 2, 5)	c) (4, 5, 7)	d)	None of these		
9) Square root of	of 169 x 225 x 40	00 is				
a) 3600	o) 3800	c) 3945	(	d) None of the	se	
	nallest number by uotient becomes			00 must be m	ultiplied or divided so th	at
a) Multiply by 5	b) Divide by	5 c) Multi	ply or c	livide by 11	d) 1100 itself is square	
11) Find the squ	are root of 29811	16				

a) 416	b) 616	c) 546	d) 646			
12) Find the square?	smallest numb	er by which	720 must be multip	lied so that it becomes a perfect		
a) 3	b) 2	c) 5	d) 9			
13) Find the square?	e smallest num	ber by which	n 3703 must be divid	led so that it becomes a perfect		
a) 3	b) 5		c) 9	d) 7		
	len there are as nany rows are	• •		rows. The total number plants are		
a) 73	b) 63		c) 69	d) 83		
15) Find the	smallest numb	er which mu	ist be subtracted from	m 2361 to make a perfect square?		
a) 61	b) 51		c) 67	d) 57		
16) What is	the least numb	per by which	2352 is to be multip	olied to make a perfect square?		
a) 2	b) 3		c)4	d)5		
17) In a divi	17) In a division, a student took 63 as divisor instead of 36 his answer was 24 the correct answer is?					
a) 28	b) 82		c) 42	d) 24		
18) The leas	t number that 1	must be adde	ed to 1901 so that the	e sum may be a perfect square is?		
a) 25	b) 35		c) 30	d) 45		
19) A number is multiplied by 5 and 25 is added to it and the result is divided by 5. Then the quotient is 6 and the original number is subtracted from the quotient. The remainder will be?						
a)2	b) 3		c)4	d) 5		
20) Find the greatest number of 3 digits which is exactly divisible by 35						
a) 995	b) 89	95	c) 980	d) 890		
21) The sum	of 7 consequt	ive Odd inte	gers is 133; the least	Odd integers is?		
a) 7	b) 9		c) 11	d) 13		
22)Find the	unit digit in (5	$(15)^{31} + (515)^{31}$	) <sup>90</sup> ?			

a) 0	b)25		c)1	d)4		
23) If we writ once?	e numbers fr	om 200-400	how many of these c	contain the digit 7 once and only		
a)35	b)37		c)34	d)36		
24) Find the least number of 5 digits which is exacts divisible by 476?						
a) 10472	b) 14	702	c) 10492	d) 10742		
25) One of tw	o consecutiv	e positive nu	umbers the sum of wh	nose squares is 685 is?		
a) 17	b) 21	c) 19	d) 15			
26) What show	uld be added	to 18962 to	make it exactly divis	ible by 13?		
a) 3	b)7	c)5	d) 2			
27) The num	ber which wl	hen multiplie	ed by 17 increases by	640 is?		
a) 40	b) 32	c) 24	d)12			
28) When a ne remainder wo		ided 121 the	remainder is 25. If the	ne same number is divided by 11 the		
a)2	b) 3	c)5	d) 7			
29) If the ren number, what		•	acting a number from	n its own square is six times the		
a) 7	b) 6	c) 5	d) 9			
30) How man	y number be	tween 100 ar	nd 300 are multiple o	f 13?		
a) 20	b) 13	c)16	d)15			
31) The largest number of 4 digits exactly divisible by 44 is?						
a) 9944	b) 9988	c) 9898	d) All			
32) A number when divided by 7 leaves a remainder 5. What is the remainder when the square of the same number is divided by 77?						
a) 5	b) 7	c) 9	d) 4			
33) A number when divided by a divisor leaves a remainder of 52. If the remainder is 43, when twice the number is divided by the same divisor find out the divisor?						

a) 35	b) 27	c) 50	d) None	9			
34) The	sum of	first 15	0 numbe	rs from	1 to 15	0 is divisible	by?
a) 5	b) 3		c) 25		d) all a,	b,c	
35) How	many	number	s lie betv	veen 2	00 and 3	300, which ar	re divisible by 19?
a) 7		b) 9			c) 8		d)5
36) 1234	431 is c	livisible	by?				
a) 3		b) 5			c) 7		d) 11
37) The	sum o	f all 3 di	git numb	ers?			
a) 4562	300		b) 4940	55	c) 49	32270	d) None
38) Hov	v many	numbe	rs betwe	en 400	to 900	are divisible	by 3,7 and 21?
a) 24		b) 22		c) 23		d) 27	
39) Sum	n of squ	uares of	20 natur	al num	bers is?		
a) 2860		b) 2850	)	c) 289	0	d) 2870	
40) Sum	of cub	es of 15	natural i	numbe	rs is?		
a) 13600	)	b) 1440	00	c) 154	00	d) 14500	
41) The	produc	t of 4 co	onsecutiv	e num	bers is a	ılways divisib	le by?
a) 6		b) 18		c) 9		d) 15	
42) Find	the su	m of firs	t 24 odd	numbe	ers start	ing from 17?	
a) 690		b) 930		c)450		d) 960	
43) A nu divisible			visible by	/ 221 l€	eaves th	e remainder	64. What is the remainder if the number is
a) 1		b) 11		c) 12		d) 6	
44) Sum	n of nui	mbers 1	00 to 200	) is?			
a) 20100	)	b) 1010	00	c) 100	0100	d) None	
45) How	many	divisors	are there	e for 67	72?		
a) 12		b) 24		c) 20		d) 22	

a) 15	b) 17	c) 18	d) 19				
47) One fifth of square of a certain number is itself (is that number) what is the number?							
a) 25	b) 15	c) 5	d) 35				
48) When 25 <sup>25</sup>	48) When 25 <sup>25</sup> is divide by 26 the remainder is?						
a) 1	b) 2	c) 24	d) 25				
49) What is the unit digit in (2157) <sup>754</sup> is?							
a) 7	b) 8	c) 9 d) 6					
50) How many times 121 must be added to 3621 in order to get a sum 4710?							
a) 7	b) 6	c) 8	d) 9				

46) How many numbers between 100 and 300 are exactly divisible by 11?

## **Science**

51) The Synthetic fibers are made by
A) Human beings b) Animals c) Machines d) Micro organisms
52) Polymer is also called as a) Cotton b)Cellulose c)rayon d) Glucose
<ul> <li>53) Polyster is actually made up of the repeating units of a chemical called</li> <li>A) Ester b) acrylic c)rayon d) none of the above</li> <li>54) Polythene and PVC are examples of</li> <li>A) Thermosetting plastics b) thermoplastics c) melamine plastic d) none of the above</li> </ul>
55) A material which gets decomposed through natural processes, such as action by
a) Virus b) fungus c) bacteria d) None
56) The property of metal by which it can be drawn into wires is called
A) Malleability b) ductility c) sonorous d)
57) Which is an example of non-metal
a) Iron b) calcium c) oxygen d) aluminium
58) The moist air Chemical symbolic term is
A) O2+H <sub>2</sub> O b) 2Cu+ O <sub>2</sub> c) 2Cu+ H <sub>2</sub> O d) H <sub>2</sub> O+CO <sub>2</sub>
59) The Sulphurous acid Chemical term is
A) H2SO4 b) H2SO3 c) SO2H2O d) H2SO2
60) Which of the following can be beaten into thin sheets?
a) Phosphorus b) Zinc c) Sulphur d) Oxygen
61) Which of the following is not obtained on fractional distillation of petroleum?
a) Paraffin wax b) charcoal c) Asphalt D) CNG
62) COAL is used in
a) Railway engines b) Thermal power plants c) Fuel to cook food d) All of the above
63) Which of the following is a fossil fuel?
a) Petroleum b) Cow dung c) Dry leaves D) Wood

- 64) Which of the following options is not correct? Petroleum is obtained from oil wells in

  a) Assam B) Punjab c) Mumbai D) Gujarat

  65) The slow process of conversion of dead vegetation into coal is called

  a) Carbonization b) Caramalization c) Carnation d) Combustion

  66) An ideal fuel used in the manufacture of glass and steel is
  - a) LPG b) Gobar gas c) Coal gas d) Kerosene
- 67) The air pollution caused by burning of fossils is supposed to result in
  - a) Killing of germs b) Water harvesting c) Global warming d) Lowering of temperature
- 68) Which of the following is a petroleum product used to drive high vehicles?
  - a) Petroleum gas b) Diesel c) Kerosene d) None
- 69) Petroleum is refined by:
  - a) Fractional distillation b) Distinctive distillation c) Distillation d) all of the above
- 70) A porous black substance used in the extraction of metals is:
  - a) Sodium b) Calcium c) Lead d) Coke
- 71) The color of the flame with the highest amount of heat is
  - a) White b) Yellow c) Red d) Blue
- 72) The three essential requirements for producing fire are:
  - a) Water, light and air
  - b) Fuel, air and heat
  - c) CO2, H2O, light
  - d) CO, N2, heat
- 73) Which of the following is not used as fuel?
  - a) LPG b) CNG c) Hydrogen d) O2
- 74) Elaborate CNG

a) Compressed Natural Gas b) Compact Natural Gas c) Combined Natural Gas d) Comfort Natural Gas				
75) Total amount of heat produced by fuel having calorific value of 30 kJ/kg was found to be 60,000 Joules. How much fuel was burnt?				
a) 2000kg b) 200kg c) 20kg d) 2kg				
76) Which of the following statements is not true?				
a) Flame can be seen over burning solids and liquids				
b) Type of flame depends upon the amount of oxygen available.				
c) Invisible zone of a flame is the least hot zone				
d) Blue zone indicates complete combustion of fuel.				
77) Force:				
a) A Push b) A Pull c) Both d) None				
78) The atmospheric pressure on the surface of the earth is about				
a) $10^{-5}  \text{Nm}^{-2}$ b) $10^4  \text{Nm}^{-2}$ c) $10^5  \text{Nm}^{-2}$ d) $10^3  \text{Nm}^{-2}$				
79) The pressure exerted by a liquid of height h is given by				
a) <i>h/dg</i> b) <i>hdg</i> c) <i>h/d</i> d) <i>hg</i>				
80) Choose the correct statement among the following:				
a) The upper surface of a stationary liquid is always horizontal				
b) Pressure of a given liquid is directly proportional to depth of the liquid				
c) Pressure at a given depth inside a stationary liquid is different at different points in the horizontal plane				
d) A & B				
81) The total force exerted by a body normal to the surface is called				
a) Pressure b) Thrust c) Force of gravity d) None				
82) Fluid pressure is always directed				
a) Up b) Sideways c) Down d) In all directions				

83) The force require	ed to keep an object mo	ving with the same sp	peed is a meas	sure of	
a) Static friction	b) Sliding friction	c) Rolling friction	d) Limiting	friction	
84) A coin flicked acre	oss a table will stop, be	cause			
a) It is heavy					
b) No force is acting of	on it				
c) Earth attracts the o	coin				
d) Surface of the tabl	le exerts a frictional for	ce			
85) Which of the follo	owing are harmful effec	cts of friction?			
a) Friction generates	heat, which may damag	ge machines			
b) Friction causes we	ar and tear				
c) Friction slows dow	n motion				
d) ALL					
86) The correct arran	ngement, friction due to	rolling, static and slic	ding in a decre	easing order.	
a) Rolling, static and	sliding				
b) Rolling, sliding and	l static				
c) Static, sliding and r	rolling				
d) Sliding, static and	rolling				
87) To avoid slipping	while walking on ice, it	is advisable to take s	mall steps bed	cause:	
a) Ice has a large frict	tional force				
b) Ice has a small frictional force					
c) There is large norn	nal reaction				
d) There is small norr	nal reaction				
88) On which of the f	ollowing factors does t	he magnitude of fricti	onal force exe	erted by a fluid depend?	
1. Speed of the object	t 2. Shape of the o	object 3.Size of th	e object	4. Nature of the fluid	

a) 1&2	b) 1, 3&4	c) 1, 2&3	d) 1, 2, 3&	4	
89) Which dev	rice converts chemic	al energy into elect	rical energ	y?	
a) Lightning ro	od b) Cell	c) Light bulb	d) S	witch	
90) Ammoniu	m chloride in dry cel	lis			
a) A paste	b) In liquid state	c) In solid sta	ite d	) In Gaseous state	
91) Iron and st This process is		om corrosion by co	ating them	with a layer of tin or chromium metals.	
a) Galvanizatio	ons b) Electrop	olating c) Gr	easing	d) Painting	
92) The outlet	s in your home prov	ide			
a) D.C	o) A.C c) Elect	ric Discharge	d) Static e	lectricity	
93) An object	becomes charged w	hen the atoms in th	e object ga	iin or lose	
a) Protons	b) Neutrons	c) Electrons		d) All	
94) During the	e process of electroly	sis of water, dilute	sulphuric a	icid splits into	
a) Oxygen ions	s and hydrogen ions				
b) Oxygen ion	s, hydrogen ions & s	ulphur ions			
c) Hydrogen ic	ons, Oxygen ions and	l sulphur ions			
d) None					
95) Celestial C	bjects are				
a) The moon	b) The stars	c) The planets	d) ALL		
96) Stars in a galaxy are held together by					
a) Light	b) Gravity	c) Radiation	d) Satel	lites	
97) What is th Jupiter?	e correct sequence	in the increasing or	der of heat	energy from the sun on Earth, Mars and	
a) Jupiter > Ma	ars > Earth				

b) Earth > Mars > Jupiter					
c) Jupiter > Earth >	> Mars				
d) Earth > Jupiter :	> Mars				
98) Which factor is	s most directly resp	onsible for deter	mining how often a full moon appears?		
a) The size of the I	Moon				
b) The size of Eart	h				
c) How quickly the	e moon orbits earth				
d) How quickly the	e moon turns on its	axis			
99) The time perio	od between one full	moon day to and	other full moon day		
a) 28days	b) 29days	c) 26days	d) 27 days		
100) The bright head of the comet is known as					
a) Pointer	b) Nucleus	c) Coma	d) Shooter		