

	CLASS: VI	Time Allowe	<b>d :</b> 1 Hr.	Maximum Marks : 100	)
	Section A - Ma	ths			
1	Find the value	of questions mark	s (?).		[1]
	122, 248, 326,	414,?			
	a) 521	b) 177	c) 432	d) 817	
2	8, 13, 10, 15, 12	2, 17, 14 ?			[1]
	a) 20	b) 22	c) 16	d) 19	
3	52227, 53227,	55227, 58227,	·		[1]
	a) 59227	b) 57227	<u>c) 62227</u>	d) 58227	
4	What is the nex	xt term of the serie	es 1, 2,4, 8, 16,?	1) 22	[1]
-	a) 64	<u>b)</u> 20	c) 24	d) 32	[4]
5	Find the value	of questions mark	S (?).		
	(2, 3, 5, 7, 2)	b) 0	c) 12	d) 10	
6	Completethe n	attorn: 7 15 23	CJ 15	uj 10	[1]
0	a) 31	h) 27		d) 28	
7	What will be th	ne next row of num	bers in the following parts	attern?	[1]
					[-]
	6 36 216				
	8 64 512				
	? ? ?				
	2) 10 100 100	0	b) 10 200 2000		
	(100, 100, 100)	0	d) 10, 200, 2000		
8	What is rule of	the pattern below	?		[1]
	2. 5. 11. 23. 47.				L-1
	a) Multiply the	number by 2 and	add 1 b) Add	6	
	c) Multiply by	2	d) Add	3	
9	What comes ne	ext?			[1]
	ABC, EFG, IJK				
	a) ONM	b) KLM	c) MNO	d) LMN	
10	Next term of 8	6, 48, 32, is			[1]
	a) 6	b) 10	c) 12	d) 27	
11	3, 6, 18, 72, 36	0,?	1004	D (222	[1]
10	a) 2160	b) 2254	<u>c) 1296</u>	d) 4329	<b>F41</b>
12	If the sumof ea	ch row, column an	d diagonal is 24, then fi	ind the multiple of x and y.	[1]
	9	У	11		
	10	8	6		
	5	X	7		
	a) 40	b) 44	c) 32	d) 48	
13	If sum of each	row, column and d	iagonals are equal, ther	n the value of x, y, z and w	[1]
		8 x z			
		y 5 w			
	respectively, is	492			
	a) 3, 6, 7, 1	<u>b) 1,</u> 3, 6, 7	c) 4, 6, 8, 7	d) 1, 6, 3, 7	

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14	11, 13, 17, 19, 23, 29, 31, 37, 41, is	[1]
	a) 44 b) 45 c) 43 d) 42	
15	Find the rule of number pattern: 5, 10, 20, 40, 80	[1]
	a) Multiply by 5 b) Add 10	
4.6	c) Add 5 d) Multiply by 2	<b>F</b> 43
16	Write number pattern next three terms 4, 8, 16, $32$ ,,,,	[1]
	a) 64, 128, 256 b) 62, 128, 254	
17	<u>c) 60, 85, 90</u> <u>d) 60, 70, 120</u>	[4]
1/	$92, 82, 72, 62, \$	
10	a) 22 b) 42 c) 32 d) 52	[1]
18	what is the next term in the given series?	
	(3, 15, 17, 21, 25,)	
10	What comes next in the nattorn?	[1]
19	32 30 28 26	
	a) 25 $b) 22$ $c) 23$ $d) 24$	
20	Rohan has created a number nattern. The first 3 numbers were 4.11 and 18. What	[1]
20	comes next?	LTI
	a) 29 b) 24 c) 25 d) 21	
Sect	$\frac{1}{1} \frac{1}{1} \frac{1}$	
21	What happens when a guess made in science turns out to be wrong?	[1]
<b>21</b>	a) We ston doing science	
	b) The experiment is cancelled	
	c) We test a new guess and learn from the mistake	
	d) The result is ignored	
22	What role does questioning play in science?	[1]
	a) It delays discoveriesb) It confuses students	1.1
	c) It is used only for examsd) It leads to exploration and discoveries	
23	How does the scientific method resemble what we do when our pen stops working?	[1]
	a) We throw the pen away	
	b) We guess and test until we find the problem	
	c) We wait for someone to fix it	
	d) We do nothing	
24	What is meant by "Science is everywhere"?	[1]
	a) Science is only in laboratoriesb) Science is only for scientists	
	c) Science is found in all parts of lifed) Science is only for textbooks	
25	What is the first step of the scientific method?	[1]
	a) Writing a conclusionb) Asking for help	
	c) Observationd) Making a chart	
26	Why is curiosity important in science?	[1]
	a) It helps us sleep betterb) It makes us memorize facts	
	c) It leads us to ask questions and explored) It makes experiments longer	
27	What question would you ask as a young scientist?	[1]
	a) Why do stars shine?b) What is the capital of France?	
	c) who invented the telephone?d) How old is your mother?	
28	What is Science?	[[1]
	a) A storybook subjectb) A collection of random facts	
20	The place where a living experimentational A subject only for students	[4]
29	a) Reamby Houses) Habitated Habit	[1]
1	T AT NOUTINT HOUSECT HADILAUT HADIL	1

30	The plants that climb up an upright support by special clinging or clasping structure	[1]
	like tendrils, roots or hooks are called	
	a) Twinersb) Climbers c) Creepersd) Trailers	
31	A herb is one having	[1]
	a) Annual growthb) A fewflowers and fruits	
	c) Woody short stemsd) Green, soft and short stems	
32	Ramesh spotted an organism with streamlined and slippery body. The organism's	[1]
	habitat must be	
	a) Aquaticb) Terrestrialc) Grasslandd) Deserts	
33	Which of these adaptations is not shown by a camel for living in deserts?	[1]
	a) Perspires or sweat a lot ofb) Passes scanty of urine	
	c) The sole of feet has sort of padsd) Has a hump on its back	
34	Which one is the common characteristic of all fishes?	[1]
	a) All can live on land as well as waterb) All have streamlined body	
	c) All have bony endoskeletond) All have cartilaginous endoskeleton	
35	Long legs of camels help them in living in deserts by	[1]
	a) Keeping body away from heat of sand	
	b) Making comfortable walking on sand	
	c) Keeping food near his mouth	
	d) Holding the nose above to respire cold air	
36	The plants with weak stem and cannot stand upright are called	[1]
	a) Herbsb) Trees c) Shrubsd) Creepers	
37	Small plants, soft perishable stems, attain heigh up to five feet, generally annuals and	[1]
	biennials. These plants are	
	a) Shrubsb) Treesc) Climbersd) Herbs	-
38	Combination of feature find in grass are	[1]
	a) Parallel venation and tap rootb) Reticulate venation and tap root	
0.0	c) Reticulate venation and fibrous rootd) Parallel venation and fibrous root	
39	Forest, grassland, desert and mountain region are example of	
40	a) Aquatic habitat b) Amphibious habitat c) Terrestrial habitat d) None	[4]
40	Who played an important role in the Save Silent Valley Movement and worked to	
	protect India's plant blodiversity?	
Cast	ajKaipana Unawia Dijanaki Ammaicj U.V. Kaman – djHomi Bnabna	
Sect	The fried area licensee	[4]
41	The Trigid Zone lies near	
	a) The Tropic of Capricorn d) The Deleg	
12	C) The Hopic of Capiticon of the sup of near of a place.	[1]
42	a) Local Time	
	a) Local Time D) Filme Meridian c) Standard Time d) Prime Time	
13	Dhubri is in	[1]
45	a) Nagaland b) Sikkim c) Assam d) Trinura	
Λ.Λ.	The map showing houndaries of the countries and the state within the countries are	[1]
	called	[1]
	a) Thematic man b) Conventional man	
	c) Political man d) Physical man	
45	How many time zone India has?	[1]
	a) Two b) Three c) Twenty four d) One	[ * ]
46	The length of the latitudes are:	[1]
	a) Shortest at the eastern hemisphere b) Shortest at the equator	[ ~ ]
	c) Longest at the pole d) Longest at the equator	

477		[4]
47	Torrid zone lying between:	[1]
	a) Tropic of Cancer and Antarctic circle	
	b) Tropic of Cancer and Tropic of Capricorn	
	c) Equator and Tropic of Capricorn	
	d) Arctic circle and Tropic of Capricorn	
48	The earth rotates from:	[1]
	a) South to North b) West to east	
	c) North to South d) East to west	
49	How much time difference is there between Gujarat and Assam?	[1]
	a) 2 hour and 45 minutes b) 1 hour and 54 minutes	
	c) 3 hour and 50 minutes d) 1 hour and 45 minutes	
50	Map showing specific information such as roads, rainfall, distribution of forest called	[1]
	a) Physical map b) Political map	
	c) Thematic map d) Conventional map	
51	The total number of meridians are	[1]
	a) 180 b) 80 c) 90 d) 360	
52	Which continents does not surrounds the Pacific Ocean?	[1]
	a) North America b) Asia	
	c) Africa d) South America	
53	Which is the second largest ocean in the world?	[1]
	a) Pacific Ocean b) Arctic Ocean c) Atlantic Ocean d) Indian Ocean	
54	ocean is located within the Arctic circle and surrounds the North pole.	[1]
	a) Pacific b) Atlantic c) Arctic d) Indian	L-1
55	Which ocean is triangular in shape?	[1]
	a) Atlantic b) Arctic c) Pacific d) Indian	[-]
56	Which of the following is the largest and deepest ocean of all?	[1]
	a) Atlantic b) Pacific c) Arctic d) Indian	[1]
57	Which river is the longest river in the world?	[1]
57	a) Amazon b) Nile c) Darling d) Canga	[1]
58	About 20 parcent of Earth is covered with:	[1]
50	a) Water b) Mountains c) Land d) Pivers	[1]
50	Which accord is currounded by Acia Australia North America South America?	[1]
59	a) Desific Ocean	
	a) Facilit Ocean a) Indian Ocean d) Arctic Ocean	
60	cjinulan Ocean uj Arcuc Ocean	[1]
60	Cecan is 5 snaped.	
	a) Atlantic Ucean b) Indian Ucean c) Arctic Ucean d) Pacific Ucean	



	CLASS: VII	Time Allowed : 1 Hr.		Maximum Marks : 100	
	Section A - Ma	ths			
1	Rounding off 8,	49,239 to nearest thousan	d:		[1]
	a) 8,49,200	b) 8,49,340	c) 8,49,240	d) 8,49,000	
2	The approxima	te value of 4,99,897 is:			[1]
	a) 5,00,000	b) 4,99,900	c) 4,90,000	d) 4,99,000	
3	Which of the fo	llowing numbers is smalle	st?		[1]
	a) 800	b) 8 crore	c) 8 lakh	d) 80,000	
4	What comes jus	st before 1,00,000?			[1]
	a) 9,99,999	b) 99,999	c) 10,000	d) 1,00,001	
5	Ten ten - thous	ands make:			[1]
	a) 10,00,000	b) 10,000	c) 1,000	d) 1,00,000	
6	1 crore equals:				[1]
	a) 10 lakhs	b) 100 lakhs	c) 1,000 lakhs	d) 1 lakh	
7	The number 10	,00,000 is read as:			[1]
	a) Ten thousan	d b) One crore	c) One lakh	d) Ten lakhs	543
8	A newspaper ha	as a circulation of 2.5 lakh.	What is the number	er in digits?	
	a) 25,000	<u>b) 2,50,000</u>	c) 2,500	d) 25 lakh	[4]
9	$1 \text{ lakh} = \_$	thousands	2 1 0 0	1.10	
10	a) 10,000	<u>b) 1,000</u>	c) 100	d) 10	[4]
10	How many zero	bes are there in one lakn?		7 (1	
11	a) 5 The Indian cost		<u>CJ</u> 6	d) /	[4]
	The Indian syst	em of numeration places i	akn atter:	d) Thousand	
12	Write 2 lakh an	d 75 thousand in digits	cj Tell tilousaliu	uj mousanu	[1]
12	$\sim$	u 75 thousand in digits.			
	h) We are giver				
	3 lakh = 3.00.00	)0			
	75 thousand = 7	75.000			
	Now add both:				
	3.00.000 + 75.0	00 = 3.75.000			
	c) 3,75,400	d) 3,75,200			
13	Which of the fo	llowing is greater?			[1]
	a) 60 thousand	b) 6 crore	c) 6 lakh	d) 60 lakh	
14	1 crore is equal	to how many thousands?	•		[1]
	a) 10,000	b) 1000	c) 1,00,000	d) 10,00,000	
15	9,99,999 round	ed to nearest lakh is:			[1]
	a) 9,90,000	b) 1,00,000	c) 10,00,000	d) 9,00,000	
16	What is the uni	t digit of the square of 999	?		[1]
	a) 1	b) 9	c) 0	d) 5	
17	Which number	is equal to 10 million?			[1]
	a) 10 lakhs	b) 10 crores	c) 1 lakh	d) 1 crore	
18	Which of these	is NOT a round number?			[1]
	a) 5,00,000	b) 10,00,000	c) 1,000	d) 4,23,100	
19	1 crore - 1 lakł	n = ?			[1]

	a) 99 lakhs b) 99 thousand c) 9 lakhs d) 1 lakh								
20	<b>Assertion (A):</b> 12321 is a product of 111 × 111.	[1]							
	<b>Reason (R):</b> It is a palindromic square.								
	a) Both A and R are true and R is the correct explanation of A.								
	b) Both A and R are true but R is not the correct explanation of A.								
	c) A is true but R is false.								
	d) A is false but R is true.								
Sect	ion B - Science								
21	Why are experiments important in science?	[1]							
	a) They help in memorizing concepts								
	b) They are optional activities								
	c) They provide hands - on experience and understanding								
	d) They confirm preconceived notions								
22	What is the process by which plants make their food?	[1]							
	a) Transpiration b) Photosynthesis								
	c) Respiration d) Digestion								
23	Assertion (A): New scientific discoveries can change our understanding of the world.	[1]							
	<b>Reason (R):</b> Science is a dynamic field that evolves with new evidence.								
	a) Both A and R are true and R is the correct explanation of A.								
	b) Both A and R are true but R is not the correct explanation of A.								
	c) A is true but R is false.								
	d) A is false but R is true.								
24	Assertion (A): Curiosity is the driving force behind scientific discoveries.	[1]							
	<b>Reason (R):</b> Without curiosity, scientists would not question or explore phenomena.								
	a) Both A and R are true and R is the correct explanation of A.								
	b) Both A and R are true but R is not the correct explanation of A.								
	c) A is true but R is false.								
	d) A is false but R is true.								
25	Assertion (A): Science is a way of thinking, observing, and doing things to	[1]							
	understand the world.								
	<b>Reason (R):</b> Science relies solely on memorization of facts.								
	a) Both A and R are true and R is the correct explanation of A.								
	b) Both A and R are true but R is not the correct explanation of A.								
	c) A is true but R is false.								
	d) A is false but R is true.	-							
26	Which of the following is not a property of bases?	[1]							
	a) Sour taste b) Bitter taste c) Soapy touch d) Turns red litmus blue								
27	Which of the following is not a natural indicator?	[1]							
20	a) Turmeric b) Litmus c) Red cabbage d) Phenolphthalein	541							
28	Which of the following is used to treat an ant bite?	[1]							
20	a) Lemon juice b) Baking soda c) Salt solution d) Vinegar	541							
29	Which of the following combinations will result in a neutralization reaction?								
	a) Soap solution and baking soda								
	b) Hydrochloric acid and sodium hydroxide								
	c) water and sait								
20	uj Lemon juice and vinegar Which of the following substances is likely to be besie?								
30	which of the following substances is likely to be basic?	[1]							
21	a) Lemon juice b) Soap solution c) vinegar d) Lamarind water	   [4]							
31	which of the following indicators is used to detect acids and bases?	[1]							
22	a) Litinus D) water C) Sugar d) Salt	<b>[</b> 4]							
32	which of the following is a natural indicator?								

	a) Universal indicator b) Litmus c) Phenolphthalein d) Methyl orange	
33	Litmus is extracted from:	[1]
	a) Beetroot b) Lichens c) Red cabbage d) Turmeric	
34	If a substance tastes sour and turns blue litmus red, it is likely to be:	[1]
	a) Neutral b) Salty c) Basic d) Acidic	
35	Which of the following substances turns blue litmus paper red?	[1]
	a) Vinegar b) Baking soda c) Soap solution d) Lime water	1. 1
36	Which of the following substances is neutral in nature?	[1]
	a) Lemon juice b) Vinegar c) Soan solution d) Sugar solution	1-1
37	Which indicator turns red in a basic solution?	[1]
	a) Phenolphthalein b) Red cabbage c) Turmeric d) Litmus	[-]
38	Assertion (A): Lemon juice turns red litmus blue.	[1]
	<b>Reason (R):</b> Lemon juice is basic in nature.	[-]
	a) Both A and R are true and R is the correct explanation of A.	
	b) Both A and R are true but R is not the correct explanation of A	
	c) A is true but R is false.	
	d) A is false and R is also false.	
39	Assertion (A): Phenolphthalein is a natural indicator	[1]
	<b>Reason (R):</b> Phenolphthalein is extracted from plants.	[-]
	a) Both A and R are true and R is the correct explanation of A.	
	b) Both A and R are true but R is not the correct explanation of A.	
	c) A is true but R is false.	
	d) A is false and R is also false.	
40	<b>Assertion (A):</b> Litrus paper changes color in acidic and basic solutions.	[1]
	<b>Reason (R):</b> Litmus is a synthetic indicator.	[-]
	a) Both A and R are true and R is the correct explanation of A.	
	b) Both $\Lambda$ and $R$ are true but $R$ is not the correct explanation of $\Lambda$	
1		
	c) A is true but R is false.	
	<ul><li>c) A is true but R is false.</li><li>d) A is false but R is true.</li></ul>	
Secti	<ul> <li>c) A is true but R is false.</li> <li>d) A is false but R is true.</li> </ul>	
Secti 41	<ul> <li>c) A is true but R is false.</li> <li>d) A is false but R is true.</li> <li>ion C - Social Science</li> <li>Which of the following is not a coastal state of India?</li> </ul>	[1]
Secti 41	c) A is true but R is false. d) A is false but R is true. ion C – Social Science Which of the following is not a coastal state of India? a) Tamil Nadu b) Gujarat c) Kerala d) Madhya Pradesh	[1]
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	a) Sahara b) Gobi c) Kalahari d) Thar Desert	
51	Which river is primarily responsible for forming the Gangetic Plains?	[1]
	a) Narmada b) Yamuna c) Godavari d) Ganga	
52	What is the capital of Ladakh region?	[1]
	a) Leh b) Srinagar c) Kargil d) Shimla	
53	Which of the following hill ranges is one of the oldest in the world?	[1]
	a) Nilgiris b) Western Ghats c) Himalayas d) Aravalli Hills	
54	Which mountain range acts as a natural barrier to the cold winds from Central Asia?	[1]
	a) Himalayas b) Aravalli Hills c) Satpura Range d) Western Ghats	
55	What is the main occupation in the Gangetic Plains?	[1]
	a) Mining b) Tourism c) Agriculture d) Fishing	
56	Assertion (A): The Peninsular Plateau is rich in black soil.	[1]
	<b>Reason (R):</b> It is formed mainly from volcanic rocks.	
	a) Both A and R are true and R is the correct explanation of A.	
	b) Both A and R are true but R is not the correct explanation of A.	
	c) A is true but R is false.	
	d) A is false but R is true.	-
57	<b>Assertion (A):</b> The Great Indian Desert is known for its dense forests.	[1]
	<b>Reason (R):</b> It receives very little rainfall annually.	
	a) Both A and R are true and R is the correct explanation of A.	
	b) Both A and K are true but R is not the correct explanation of A.	
	C) A IS true but R IS faise.	
<b>Г</b> О	a) A is faise but R is true.	[1]
50	Assertion (A): The minimalayas act as a cliniatic barrier for mode.	
	<b>Reason (R):</b> They prevent the cold Sibertain winds from entering mula.	
	b) Both A and P are true but P is not the correct explanation of A	
	c) $\Delta$ is true but R is false	
	d) A is false but R is true	
59	<b>Assertion (A):</b> The Andaman and Nicobar Islands are of volcanic origin.	[1]
	<b>Reason (R):</b> These islands lie in the tectonically active zone.	L - J
	a) Both A and R are true and R is the correct explanation of A.	
	b) Both A and R are true but R is not the correct explanation of A.	
	c) A is true but R is false.	
	d) A is false but R is true.	
60	Assertion (A): The Gangetic Plains are one of the most fertile regions of India.	[1]
	<b>Reason (R):</b> These plains are formed by alluvial deposits brought by rivers.	
	a) Both A and R are true and R is the correct explanation of A.	
	b) Both A and R are true but R is not the correct explanation of A.	
	c) A is true but R is false.	
	d) A is false but R is true.	



	CLASS: VIII	<b>Time Allowed :</b> 1	Hr.	Maximum Marks : 100	
	Section A - Mat	hs			
1	Which type of g	aph is best suited to s	show trends over	time?	[1]
	a) Pictograp	oh b) bar graph c)	line graph d) dou	ıble bar graph	
2	Rahul has 10 un	it cubes, how many u	nits he require mo	ore to form a bigger cube of	[1]
	dimension 3unit	s?			
2	a) 27	b)17	<u> </u>	d)30	[4]
3	which among th	e following is not a pi	rime number?	d) 191	
4	Which of the foll	owing fraction is not	equal to the other	three?	[1]
	2	$h^{\frac{26}{2}}$	$\frac{14}{2}$ d) $\frac{34}{2}$	three.	
-	$a_{\frac{1}{5}}$	$0.5\frac{1}{65}$	$\frac{1}{35}$ $\frac{1}{68}$		[4]
5	Which of the foll	lowing fraction is the	smallest?	N <sup>3</sup>	
	a) $\frac{1}{25}$	b) $\frac{100}{100}$	C) <del>86</del>	$dJ_{\overline{5}}$	
6	Eight more than	half of a number is 10	6.what is the num	ber?	[1]
-	a) 16	<u>b)8</u>	<u>c)24</u> d)128		- [4]
	How many diago	bnals does a hexagon	nave?	4) 10	[1]
8	Find the value of	UJ12 f v for given equation	$\frac{1}{2}$	d) 10	[1]
0	a) 2	b)3 c)	4   d)5		
9	The number tha	t comes next in the fo	llowing sequence		[1]
	1,3,6,10,15,		0 1		
	a) 20	b)18 c)2	21 d)19		
10	The total surface	e area of a cube with s	ide 5cm is		[1]
	a) 150cm <sup>2</sup>	b)125cm <sup>2</sup>	<sup>2</sup> c)100	cm <sup>2</sup> d)75cm <sup>2</sup>	
11	Name the shape	which has all its leng	th equal and each	angle equal to 90°	[1]
10	a) Square	b)rhombus	c)rectangle	d)parallelogram	
12	Which among th	e following is a cube i	140 d)225		[1]
12	The formula to f	DJ125 CJ	109 UJ225	numbors is	[1]
15	a) $n(n+1)$	b) 2n c)	n <sup>2</sup> d)n(n	-1)	
14	The sum of all fa	ctors of 32		1)	[1]
	a) 54	b) 34	c)59	d) 33	L_1
15	A square is a	with equal sides	2		[1]
	a) Rectangle	e b) kite c)	hexagon	d) trapezium	
16	The volume of a	cuboid is given by the	e formula		[1]
4 -	a) lbh	<u>b)2(b+h) c)</u>	<u>2(l+h) d) l+b</u>	+h	- [4]
17	How many total	line segments are the	re in the third sha	ape of Koch snowflake	[1]
	sequence	b)12 c)	3 d)24		
18	The number of f	$\frac{0}{2}$	$\frac{5}{4^{5}}$		[1]
	The number of f	$\frac{1}{3}$	$u = \frac{1}{3}$		[*]
10	a) 2	bj infinite c)	$\frac{1}{1}$ d) 3		[4]
19		$\frac{1}{2}$ $\frac{1}{4}$	given puzzie		
	0	5 7			
		5 (			

		6	7	2						
	<u>a)</u> 8		•	b) 9		c)7		d)2		
20	Manish rea	ad <del>5</del> p	art of	f a boo	k. Preet	ti read $\frac{1}{2}$	part of	a book.	What more part was read by	[1]
	Manish?	6 *				6	•			
	a)	2		$h^{1}$		റ <mark>5</mark>		$d)^{\frac{7}{7}}$		
Socti	on <b>R</b> - Scio	<u>3</u>		<sup>3</sup>		су <sub>6</sub>		u) <sub>6</sub>		
21	Which of t	ho fol	lowir	ng foor	d compo	nonte ie	roquir	od for tl	ho growth and maintonanco	[1]
21	of the hum	nan ho	ndv?	1g 1000	i compe	JIICIII 5 15	srequii		ne growth and maintenance	[ * ]
	a) Proteins	sb) Vi	tamii	nsc) M	inerals	d) Both (	(a) and	(b)		
22	Guava, Ler	non, (	Drang	ge and	Tomato	are rich	h in			[1]
	a) vitamin	Α	b) vit	tamin	Bc) vita	min C c	d) vitan	in D		
23	Parallel ve	natio	n is n	ot fou	nd in—					[1]
			`			12 1				
24	a) sugarca	ne b	) pee	pal c)	maize	d) whea	t			[4]
24	Lear venat	JOII al	tion	pe of r fibrou	ool is co s roots	brrecuy	paired	Π		
	h) narallel	vena	tion	tanroc	s 100ts					
	c) no relat	ion ex	cists i	n leaf	venatio	n and tv	pe of ro	ots		
	d) reticula	te ver	natio	n, fibro	ous root	S	F			
25	Why are se	eeds s	oake	d in w	ater for	sprouti	ng?			[1]
	a) To kill g	germs	on th	ne seed	d surfac	e				
	b) To abso	rb su	nligh	t and r	nake it	ready to	grow			
	c) To softe	n the	seed	coat a	nd activ	vate geri	minatio	n		
26	d) To impr	ove t	he ta	ste and	d make	seeds ea	isier to	cook		[4]
26	What are r	nillet	s kno	wn foi Sata	ſ?					
	b) Boing o	Sourc	culti	als vato a	nd high	ly nutrit	ious			
	c) Being a	asy to type (	of fru	it	nu mgn	iy nuti t	.10u5			
	d) Being a	sourc	ce of v	vitami	ns only					
27	Which one	e of th	e foll	owing	food ite	ems does	s not pr	ovide d	ietary fibre?	[1]
	a) Whole g	grains	b) W	hole p	ulses		-		-	
	c) Fruits a	nd ve	getab	lesd)	Milk					
28	Which of t	he fol	lowir	ng type	e of plar	nts has tl	hick, ha	rd and v	woody stem?	[1]
	a) Tree b	) Shru	ibc) F	lerbd)	All of t	hese		10		547
29	Which nut	rient	is kno	own as	s the 'bo	dybuild	ling' foo	d?		[1]
30	Doficioncy	ofire	$\frac{2SD}{2SD}$	the die	ISCJ Fac	$\frac{s}{s}$ which	disoaso	2		[1]
50	a) Osteono	rosis	h) A	naemi	ia c) Scu	s which (rvv d) R	uisease lickets	::		[ * ]
31	Which pro	cess a	allow	s wet (	clothes	to drv or	n a clou	dv dav v	when thetemperature is	[1]
	below 100	°C?	_			<b>j</b> -		- ) )	I I I I I I I I I I I I I I I I I I I	
	a) Boiling	b) Me	lting	c) Cor	idensati	ion d) Ev	vaporat	ion		
32	Anjali plac	ed tw	vo we	t towe	ls for di	rying —	one ou	tside in	the sun and one	[1]
	inside a clo	osed l	bathr	oom. A	After 2 h	ours, th	e towel	outside	e dried completely,	
	while the o	one in	side	was st	ill damp	o or little	e wet. V	/hich fa	ctor most likely	
	caused the	e towe	el insi	ae the	bathro	om to re	emain w	/et/	satura autoida	
	a) nigiler l	surfa	iity II ce ar	isiue t ag of fl	ne towo	I d) I acli	LUWER	light ou	ature outside tside	
33	Which of +	he fol	lowir	ια υι μ ησ is a	non-de	nletahle	(renew	ngni ou ahle) ra		[1]
	a) Coal	h)	Petr	oleum	non ue Cl	Solar en	iergv	d) N:	atural gas	[+]
34	Which of t	he fol	lowir	ng stat	ements	is corre	ct abou	t the sh	ape of water in	[1]

	different states?					
1	a) Ice and water vapour take the shape of the container.					
	b) Water and ice both flows easily					
	c) Only ice has a fixed shape.					
	d) Water vapour has a fixed shape and volume.					
35	Why is it important to manage natural resources?	[1]				
	a) To increase pollution					
	b) Because they are unlimited					
	c) To convert all resources into depletable ones					
	d) So future generations can also use them					
36	The usage of black paper sheet is for	[1]				
	a) ensuring heat absorption b) ensuring the protection					
	c) ensuring release of heat d) none of these					
37	is the old rainwater harvesting structure made by cement masonry or	[1]				
	limestone.					
	a) kunds b) tanka c) johad d) none of these					
38	What property of water vapour allows it to spread quickly in all directions?	[1]				
	a) Fixed shape b) Strong intermolecular force					
	c) Weak intermolecular force d) High density					
39	Which of the following traditional practices helps conserve soil fertility by growing	[1]				
	different crops in the same area over time?					
	a) Drip irrigation b) Crop rotation					
	c) Rainwater harvesting d) Tanka construction					
40	Dark coloured soils are considered most fertile as they contain	[1]				
	a) Gravel and sand b) Sand and earthworms	L - J				
	c) Clay and humus d) Humus and gravel					
Sect	ion C – Social Science					
41	What is the main function of the government?	[1]				
	a) Selling goods b) Making laws					
	c) Making advertisements d) Providing entertainment					
42	India has which type of government?	[1]				
	a) Monarchy b) Dictatorship c) Democratic d) Theocratic					
43	Which level of government is responsible for village administration?	[1]				
	a) Central b) State c) Local d) None of thes					
44	What is a secular state?	[1]				
	a) A state with a single religion b) A state that supports only one religion					
	c) A state that has no official religion d) A state that bans all religion					
45	c) A state that has no official religiond) A state that bans all religionWho is the head of a state government in India?	[1]				
45	c) A state that has no official religiond) A state that bans all religionWho is the head of a state government in India?a) Presidentb) Prime Ministerc) Chief Ministerd) Governor	[1]				
45 46	c) A state that has no official religiond) A state that bans all religionWho is the head of a state government in India?a) Presidentb) Prime Ministerc) Chief Ministerd) GovernorWhich of the following is NOT a function of the government?	[1] [1]				
45 46	c) A state that has no official religiond) A state that bans all religionWho is the head of a state government in India?a) Presidentb) Prime Ministerc) Chief Ministerd) GovernorWhich of the following is NOT a function of the government?a) Enforcing lawsb) Constructing public buildings	[1] [1]				
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45 46 47	<ul> <li>c) A state that has no official religion</li> <li>d) A state that bans all religion</li> <li>Who is the head of a state government in India? <ul> <li>a) President</li> <li>b) Prime Minister</li> <li>c) Chief Minister</li> <li>d) Governor</li> </ul> </li> <li>Which of the following is NOT a function of the government? <ul> <li>a) Enforcing laws</li> <li>b) Constructing public buildings</li> <li>c) Making advertisements for private companies</li> <li>d) Providing public services</li> </ul> </li> <li>How does a democracy allow people to participate? <ul> <li>Which of the following is NOT a function of the government of the gover</li></ul></li></ul>	[1] [1] [1]				
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51	Which of the follo	wing is a factor respon	sible for soil format	tion?	[1]
	a) Sunlight	b) Wind	c) Parent rock	d) Gravity	
52	Black soil is best s	uited for growing:			[1]
	a) Rice	b) Wheat	c) Cotton	d) Tea	
53	Which method is u	used to prevent soil ero	osion on steep slopes	?	[1]
	a) Strip farming	b) Terrace fa	rming		
	c) Crop rotation	d) Mixed cro	pping		
54	Which of the follo	wing is an example of a	a Kharif crop?		[1]
	a) Wheat	b) Mustard	c) Paddy	d) Gram	
55	What type of farm	ning is practiced to mee	et the needs of the fa	armer's family?	[1]
	a) Plantation farmin	ng b) Su	bsistence farming		
	c) Commercial farm	ning d) Or	ganic farming		
56	Which of the follo	wing crops needs a lot	of water?		[1]
	a) Wheat	b) Maize	c) Cotton	d) Rice	
57	Which soil is foun	d in desert areas?			[1]
	a) Black soil	b) Alluvial soil	c) Laterite soil	d) Arid soil	
58	Which human act	ivity leads to soil erosid	on?		[1]
	a) Afforestation	b) Reforestation	c) Deforestation	d) Conservation	
59	Which type of soil	is ideal for growing su	igarcane and pulses	?	[1]
	a) Red soil	b) Black soil	c) Alluvial soil	d) Desert soil	
60	Which is NOT a n	nethod of soil conserva	tion?		[1]
	a) Afforestation	b) Terrace farming	c) Overgrazing	d) Contour ploughing	

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	CLASS: IX	Time Allowe	ed : 1 Hr.	Maximum Marks : 1	00
	Section A - M	aths			
1	If $8^{x+1} = 64$ , w	hat is the value of	$3^{2x+1}$ ?		[1]
	a) 27	b) 3	c) 9	d) 1	
2	If $x = \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}}$ and	$dy = \frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}}$ , then x	$x^{2} + xy + y^{2} =$		[1]
	a) 98	b) 101	c) 99	d) 102	
3	If $9^{x+2} = 240$ -	+ 9 $^x$ , then the value	ie of xis		[1]
	a) 0.2	b) 0.1	c) 0.3	d) 0.5	[4]
4	The value of 0.	2 in the form $\frac{p}{q}$ wh	ere p and q are integers	s and $q \neq 0$ is	
	a) $\frac{1}{8}$	b) $\frac{1}{5}$	c) $\frac{2}{9}$	d) $\frac{2}{5}$	
5	The value of {	$(23+2^2)^{\frac{2}{3}} + (150)^{\frac{2}{3}}$	$(-29)^{\frac{1}{2}}^{\frac{1}{2}}$ , is		[1]
	a) 286	b) 324	c) 196	d) 400	
6	1=?				[1]
	$(3+2\sqrt{2})$				
	a) $\frac{(3-2\sqrt{2})}{12}$		b) $(3 - 2\sqrt{2})$		
	c) $\frac{3-2\sqrt{2}}{17}$		d) $(3 + 2\sqrt{2})$		
7	Rationalisatio	n of the denomina	tor of $\frac{1}{\sqrt{5}+\sqrt{2}}$ gives		[1]
	a) $\frac{1}{\sqrt{10}}$		b) $\sqrt{5} + \sqrt{2}$		
	c) $\frac{\sqrt{5}-\sqrt{2}}{3}$		d) $\sqrt{5} - \sqrt{2}$		
8	Which of the f	ollowing is an irra	tional number:		[1]
	a) 3.14114111	14	b) 3.14444		
	c) 3.14		d) 3.141414		[4]
9			8√15 ÷ 2√3		
	a) $4\sqrt{5}$	b) 2	√15 √ <del>-</del>		
10	$\frac{c}{4\sqrt{15}}$	d) 2	√5 		[4]
10	If both $(x + 2)$	and $(2x + 1)$ are is	c) 1	d - 1	
11	The zeros of t	he polynomial $4x^2$	$+5\sqrt{2}x - 3$ are	uj i	[1]
	$a) - 3\sqrt{2} \frac{\sqrt{2}}{\sqrt{2}}$		h) $\frac{-3\sqrt{2}}{\sqrt{2}}$		
	() $-3\sqrt{2}, \sqrt{2}$		d) $-3\sqrt{2}$ , $\frac{\sqrt{3}}{4}$		
12	$\frac{1}{1}$	and $ab + bc + ca =$	$\frac{1}{2}$ $\frac{1}$	Sahe -	[1]
	a) 207	b) 108	c) 669	d) 729	
13	The zeros of the	he polynomial p(x)	$= x^2 - 3x are$	-	[1]
L	a) 3, - 3	b) 0, 0	c) 0, - 3	d) 0, 3	
14	$\int \operatorname{If} \frac{a}{b} + \frac{b}{a} = 1 \text{ , th}$	$a^{3} + b^{3} =$			[1]
	a) - 1	b) 1	c) ½	d) 0	
15	$\sqrt{3}$ is a polyno	mial of degree.			[1]

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	a) 2 b) 1 c) 0 d) $\frac{1}{2}$	
16	If $x^3 + 6x^2 + 4x + k$ is exactly divisible by $x + 2$ , then $k =$	[1]
	a) - 6 b) - 8 c) - 10 d) - 7	
17	x + 1 is a factor of the polynomial	[1]
	a) $x^3 + 2x^2 - x + 2$ b) $x^3 + 2x^2 - x - 2$	
	c) $x^3 - 2x^2 + x + 2$ d) $x^3 + 2x^2 + x - 2$	
18	The possible expressions for the length and breadth of the rectangle whose area is	[1]
	given by $4a^2 + 4a - 3$ is	
	a) (2a +1) and (2a - 3) b) (2a + 1) and (2a + 3)	
	c) (2a - 1) and (2a - 3) d) (2a - 1) and (2a + 3)	
19	Which of the following is a polynomial.	[1]
	a) $\frac{1}{4}$ + 5 b) - 4 c) x - $\frac{1}{4}$ + 2 d) $\sqrt{x}$ + 3	
20	Assertion (A): If the graph of a polynomial touches $x_{-}$ axis at only one point, then the	[1]
20	nolynomial cannot be a quadratic nolynomial	
	<b>Beason (B):</b> A polynomial of degree $n(n > 1)$ can have at most n zeroes	
	a) Both A and R are true and R is the correct explanation of A	
	b) Both A and R are true but R is not the correct explanation of A	
	c) $\Delta$ is true but R is false	
	d) A is false but R is true	
Secti	on B - Science	
21	When alcohol is kept in a china dish it evaporates, the temperature falls and cooling is	[1]
	produced. Which one is the correct method to record the temperature?	[ [ * ]
	a) By using a thermometer b) By touching the surface of china dish	
	c) By smell of alcohol vapour d) By taking the help of the teacher.	
22	Liquid A boils at 60° C while liquid B boils at 80° C which is more volatile?	[1]
	a) Liquid B b) Neither A nor B c) Both A and B d) Liquid A	
23	On converting 25°C, 38°C and 66°C to Kelvin scale, the correct sequence of temperature will	[1]
	be	
	a) 298 K, 311 K and 339 K D) 2/3 K, 2/8 K and 543 K	
24	In which one of the following sets is each one a solid under ordinary conditions?	[1]
24	a) Salt, Sugar, Chalk b) Stone, Water, Ice	
	c) Mercury, Iron, Gold d) Oxygen, Nitrogen, Sulphur	
25	During summer, water kept in an earthen pot becomes cool because of the phenomenon of	[1]
	a) transpiration b) osmosis c) evaporation d) diffusion	
26	A liquid is kept in an open china dishA. The evaporation of the liquid can be accelerated.	[1]
	a) By keeping the dish under a running fan	
	b) By keeping the dish in the open	
	c) All of these	
07	d) By blowing air into the liquid	[4]
27	which cell organelle plays a crucial role in detoxifying many poison and drugs in a cell?	
	c) Smooth endonlasmic reticulum d) Vacules	
28	Ribosomes are the centre for :	[1]
20	a) Proteins synthesis b) Photosynthesis	[1]
	c) Respiration d) Fat synthesis	
29	Viruses do not show any characteristic of living until they enter a living cell, because of the	[1]
	absence of:	• •
	a) mitochondria b) membrane c) proteins d) nucleic acid	
30	The most abundant material on the plant cell wall is:	[1]
6.1	a) lipids b) cellulose c) wax d) proteins	<b>F</b> 4 7
31	Most of the substances in the living world are transported across the cell membrane by the	[1]
1		1

	a) diffusion b) osmosis c) plasmolysis d) endocytosis				
32	Organelle other than nucleus, containing DNA is	[1]			
	a) Golgi apparatus b) Endoplasmic reticulum				
	c) Mitochondria d) Lysosome				
33	The site of detoxification in liver cells is:	[1]			
	a) RER b) SER c) ribosome d) lysosome				
34	Which of the following is a correct statement?	[1]			
	1. Distance is the magnitude of displacement in all cases.				
	2. When a body moves with uniform speed, then the average speed is same as				
	instantaneous speed.				
	3. Average speed is greater than the average velocity if a body is moving in a straight				
	line without reversing its direction.				
	4. When a body moves with constant velocity, the average velocity is zero.				
	a) Statement (i) is correct.				
	c) Statement (ii) is correct.				
35	A body starting at a point, say A, reaches, say B, ahead in a straight line and returns back to A.	[1]			
	Then there is:	1-1			
	a) cannot be said b) negative displacement				
	c) positive displacement d) zero displacement				
36	A person sitting in the truck projected a ball vertically upwards. The ball:	[1]			
	a) falls outside the truck b) falls in front of the truck	1-1			
	c) falls back in his hand d) falls by the side of truck				
37	Which of the following is the position - time graph for a body at rest?	[1]			
57	which of the following is the position – thine graph for a body at rest.				
	E E				
	ositio				
	a) Time b) Time				
	losition asition				
	L A				
	c) Time d) Time				
38	When a body moves uniformly along the circle, then: -	[1]			
	a) its speed changes but velocity remain the same	L - J			
	b) both speed and velocity changes				
	c) both speed and velocity remain the same.				
	d) its velocity changes but speed remain the same				
39	What does the slope of the velocity - time graph give?	[1]			
	a) distance b) acceleration c) displacement d) force	L-1			
40	The area under the velocity - time graph gives the value of:	[1]			
	a) acceleration b) velocity c) mass d) distance travelled	[[+]			
Secti	on C - Social Science				
41	The political instability of the Directory payed the way for the rise of which military dictator?	[1]			
11	a) Nanoleon Bonanarte b) Louis XVI c) Robesnierre d) Dr. Guillotine				
4.2	Whom did Louis XVI get married?	[1]			
74	a) Marie Antoinette				
	c) NanineVallain d) Marie de Medicis				
4.2	Passive citizens of France were:	[1]			
15	a) Only man above 25 years b) Man and woman who didn't year	[1]			
	a) Only propertied man d) Only propertied women				
11	Which group anioved certain privileges by birth?	[1]			
44	a) Nobility and Lawyors b) Clargy and Dig hysinosomen				
	a) Rig businessmon and Lawyers b) Clergy and the poblishes				
4 -	C) Dig businessmen and Lawyers a) Ciergy and the nobility	F41			
45	who proposed a form of government based on a social contract between people and their				

	representatives?				
	a) Abbe Sieyes b) John Locke c) Montesquieu d) Jean Jacques Rousseau				
46	Which one of the following is the Standard Meridian of India?				
	a) 82 degree 30' West b) 82 degree 30' South				
	c) 82 degree 30' East d) 82 degree 30' North				
47	The landmass of India has an area of?				
	a) 3.28 million sq km b) 9.59 million sq km				
	c) 8.54 million sq km d) 7.68 million sq km				
48	The Standard Meridian of India passes through which state?	[1]			
- 10	a) Himachal Pradesh b) Rajasthan c) Uttar Pradesh d) Maharashtra				
49	Kavarati is situated in	[1]			
	a) Lakshadweep b) Diu and Daman c) Pondicherry d) Andaman and Nicobar				
50	Island	[4]			
50	In which one of the following state Tropic of Lancer does not pass through?				
٢1	a) Tripura D) Orissa C) Rajastnan d) Unnatusgarn	[1]			
51	a) Crowing rabi Cropping:				
	a) Growing Table Grops				
	c) Crowing Different crop by different People				
	d) Growing more than one Cron on a niece of same land during the year				
52	Scope of farming activity is limited in Palampur due to	[1]			
52	a) The fixed amount of land b) Lack of labour				
	c) Lack of irrigation d) Lack of money				
53	Which of these states adopted modern methods of farming at the earliest?	[1]			
	a) Punjab, Harvana and Uttar Pradesh				
	b) Karnataka, Andhra Pradesh and Maharashtra				
	c) Punjab, Rajasthan and Gujarat				
	d) Uttar Pradesh, Bihar and West Bengal				
54	What is done to surplus wheat in Palampur?	[1]			
	a) Stocked by self b) Destroyed				
	c) Sold in the market d) Given in charity				
55	The concept of White Revolution is associated with	[1]			
	a) Water b) Milk c) Vegetables d) Wheat				
56	In which country free and fair elections are not held?	[1]			
	a) Mexico b) China c) Indiad) Both China and Mexico				
57	Which one of the following is a demerit of democracy?	[1]			
	a) Free and fair election b) Democracy leads to delays in decision making				
	c) Rule of law d) Equality				
58	Which party always won elections in Mexico since its independence in 1930	[1]			
	until 2000?				
	a) Institutional Revolutionary Party b) Mexican Revolutionary Party				
<b>E</b> 0	U IIIsululonal Party U Kevolutionary Party	[4]			
59	wito ieu a iliiliai y coup ili rakisiali ili 1999?	[1]			
60	Which one of the following is not the argument against democracy?	[1]			
00	a) Democracy is all about political competition and power play				
	b) Democracy leads to corruntion				
	c) Rule of law and respect for rights				
	d) Democracy leads to instability				
1	a second s				



	CLASS: X	Time Allowed :	l Hr.	Maximum Marks : 100	
	Section A - Ma	aths			
1	The product o	f two numbers is 1600 a	nd their HCF is 5. 1	The LCM of the numbers is	[1]
	a) 8000	b) 320	c) 1605	d) 1600	
2	If the HCF of 3	60 and 64 is 8, then thei	r LCM is:		[1]
	a) 2480	b) 2880	c) 512	d) 2780	
3	HCF of $(3^4 \times 2)$	$2^{2} \times 7^{3}$ ) and (3 $^{2} \times 5 \times$	7) is:		[1]
	a) 567	b) 63	c) 729	d) 630	
4	If two number	's do not have common f	actor (other than 1	), then they are called	[1]
	a) co - prime i	numbers b) prim	e numbers		
-	c) twin primes	$\frac{6}{2}$ d) comp	bosite numbers		[4]
5	If $1080 = 2^{n} \times 1$	$3^{3} \times 5$ , then $(x - y)$ is e	equal to:	d) 1	[1]
6	The UCE of two	DJ U	<u> </u>	u) - 1	[1]
0		b) 2	റ്റ	d) ()	
7	If a Caratha	Uj Z	$f(x) = x^2 + x + 1$	$\frac{1}{1}$	[1]
/	$\beta$ if $\alpha$ , $\beta$ are the	zeros of the polynomial	$f(x) = x^2 + x + 1$ , th	$\operatorname{hen} \frac{1}{\alpha} + \frac{1}{\beta} =$	
	a) 0	b) – 1	c) 1	d) 2	
8	The polynomi	al $9x^2 + 6x + 4$ has			[1]
	a) no real zero	bes b) one real zero	c) many re	al zeroes d) two real zeroes	
9	If the two zero	es of a quadratic polyno	mial are $\pm \sqrt{5}$ , then	the quadratic polynomial is:	[1]
	a) x <sup>2</sup> + 5	b) $4(x^2 - 5)$	c) $x^2 - \sqrt{5}$	d) $(x + \sqrt{5})^2$	
10	A quadratic po	olynomial whose zeroes	are - 8 and 3, is		[1]
	a) $x^2 + 5x + 24$	b) x <sup>2</sup> +	5x - 24		
	c) (x - 8) (x -	3)	d) (x + 8) (x + 3)		
11	The sum and p	product of zeroes of the p	polynomial $p(x) = 3$	$3x^2 - 5x + 2$ are	[1]
	a) $1,\frac{2}{3}$	b) $\frac{-5}{3}$ , $\frac{-2}{3}$	c) $\frac{-5}{3}$ , $\frac{2}{3}$	d) $\frac{5}{3}$ , $\frac{2}{3}$	
12	If $\alpha$ and $\beta$ are z	zeroes of the polynomial	$2x^2 = 9x + 5$ , the	en value of $\alpha^2 + \beta^2$ is	[1]
	a) $\frac{1}{1}$	b) $\frac{101}{1}$	c) 1	d) $\frac{71}{1}$	
13	If one zero of t	the polynomial $x^2$ - 3kx	+ 4k be twice the o	$\frac{2}{4}$	[1]
15	2 $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$	$b) = \frac{1}{2}$	$c)\frac{1}{2}$	d) 2	[[+]
		$\frac{0}{2}$	$\frac{c_{j}}{2}$		541
14	If one zero of t	the polynomial (3x <sup>2</sup> + 8x	+ k) is the recipro	cal of the other, then value of k is	[1]
	a) $-\frac{1}{3}$	b) 3	c) - 3	d) $\frac{-}{3}$	
15	The value of <b>p</b>	if (- 2, p) lies on the lin	e represented by th	ne equation $2x - 3y + 7 = 0$ , is	[1]
	a) $\frac{13}{2}$	b) - 1	c) $-\frac{13}{2}$	d) 1	
16	The graphs of	the equations $6x - 2y +$	9 = 0 and $3x - y + 1$	12 = 0 are two lines which are	[1]
	a) coincident		b) parallel		1.1
	c) perpendicu	lar to each other	d) intersecting exa	ctly at one point	
17	If a pair of line	ear equation is consisten	t, then the lines wil	ll be	[1]
	a) parallel	b) intersecting or coinc	ident c) always c	coincident d) always intersecting	
18	For what valu	e of k, do the equations k	x - 2y = 3  and  3x - 3x = 3	+ y = 5 represent two lines	[1]
	intersecting at	t a unique point?			
	a   k = 6	b) all real value	s except - 6		
10	CJK = -3	$a_{\rm J}  {\rm K} = 3$	aquations 2-	Q = 0 and $(w = 1w + 1)$	[4]
19	infinitoly man	ior which the system of	equations 3x - y +	o = 0 and $ox - Ky + 1b = 0$ has	
	$\frac{1}{2}$ $\frac{1}{2}$	y solutions, is	-) 0	<u>د</u> را	
	a) $-\frac{1}{2}$	DJ <del>_</del>	c) Z	aj - 2	

		-			
20	The pair of equations $x = 5$ and $y = 5$ has	[1]			
	a) unique solution b) only solution (0, 0) c) no solution d) many solutions				
Secti	on B - Science				
21	Which one of the following molecules is produced initially when glucose breaks down in the	[1]			
	cytoplasm of a cell in aerobic as well as anaerobic respiration?				
	a) Ethanol b) Carbon dioxide c) Pyruvate d) Lactic acid				
22	Pick out a decomposition reaction:	[1]			
	a) $C_2 H_4 + H_2 \rightarrow C_2 H_6$ b) $Cu + AgNO_3 \rightarrow Cu (NO_3)_2 + 2Ag$				
	c) $NH_4 Cl \rightarrow NH_3 + HCl$ d) $Fe_2 O_3 + 3CO \rightarrow 2Fe + 3CO_2$				
23	$CaO + H_2 O \rightarrow Ca(OH)_2$ . The type of reaction is:	[1]			
	a) Displacement reaction b) Precipitation reaction				
	c) Combination reaction d) Decomposition reaction				
24	Which of the following gases can be used for storage of fresh sample of an oil for a long time?	[1]			
	a) Helium or nitrogen b) Nitrogen or oxygen				
	c) Carbon dioxide or oxygen d) Carbon dioxide or helium				
25	Silver articles on exposure become black. It is an example of	[1]			
	a) Displacemet reaction b) Reduction reaction				
	c) Redox reaction d) Oxidation reaction				
26	$MnO_2 + 4HCI \rightarrow MnCl_2 + 2H_2O + Cl_2$	[1]			
	The reaction given above is a redox reaction because in this case:				
	a) $MnO_2$ is reduced. b) $MnO_2$ is reduced and HCl is oxidised.				
	c) HCl is oxidised. d) MnO <sub>2</sub> is oxidised and HCl is reduced.				
27	On the basis of evolution or absorption of heat, chemical reactions can be divided in how	[1]			
	many types ?				
	a) One b) Three c) Four d) Two				
28	A well - stained leaf peel preparation when focused under the high power of the microscope	[1]			
	would show				
	5. epidermal cells, stomata, guard cells each with one nucleus and many chloroplasts				
	6. epidermal cells, stomata, guard cells with many nuclei and one chloroplast each				
	7. stomata and guard cells without nuclei or chloroplast				
	8. stomata but no guard cells or epidermal cells				
20	$\begin{array}{c} a \end{pmatrix} (C) \qquad b \end{pmatrix} (B) \qquad c \end{pmatrix} (A) \qquad d ) (D)$	543			
29	As compared to daytime, the amount of carbon dioxide released by the plants during night is	[1]			
	more because:				
	a) Plants do not respire during daytime.				
	b) It is not produced during daytime.				
	d) Major amount of carbon dioxido produced is used up for photosymthesis during daytime				
20	d) Major amount of carbon dioxide produced is used up for photosynthesis during daytine.	[1]			
30	i Drotoing				
	i. Fiotenis				
	iii IIree				
	iv Atmospheric nitrogen				
	a) (i) and (ii) (i) (i) (ii) (ii) (iii) (				
	a) (i) and (ii) $d$ (ii) and (iv) $d$ (iii) and (iii)				
31	The kidneys in human beings are a part of the system for	[1]			
51	a) respiration b) nutrition c) excretion d) transportation				
32	While preparing a temporary stained mount of a leaf enidermal neel, the extra stain is	[1]			
52	removed by	[1]			
	a) washing with water (b) washing with calcium chloride solution				
	c) soaking with filter namer d) absorbing with cotton wool				
33	In which of the following vertebrate groun/grouns the heart does not numn oxygenated	[1]			
00	blood to different parts of the body?				
	blood to different parts of the body?	[+]			
	b) Pisces and amphibians	[-]			

34	The image formed by a concave mirror is real, inverted, and highly diminished (much smaller			
	than the object). The object must be:			
	a) at the centre of curvature b) at focus			
	c) between pole and focus d) at infinity			
35	Four optical media W, X, Y and Z have optical densities 1.35, 1.21, 1.58 and 1.002 respectively.	[1]		
	In which optical medium will the light travel fastest?			
	a) Z b) X c) Y d) W			
36	A spherical mirror and a thin spherical lens have each a focal length of - 15 cm. The mirror	[1]		
	and the lens are likely to be			
	a) The mirror is concave and the lens is convex. b) Both concave			
	c) Both convex d) The mirror is convex, but the lens is concave.			
37	When an object is placed at a distance of 15 cm from a concave mirror, its image is formed at	[1]		
	10 cm in front of the mirror. The focal length of the mirror:			
	a) 6 cm b) 10 cm c) 4 cm d) 8 cm			
38	A ray passing through the focus and falling on a convex lens will:	[1]		
	a) retrace its path	L - J		
	b) will emerge perpendicular to the principal axis			
	c) will emerge through a focus on another side			
	d) will emerge parallel to the principal axis			
39	Where should an object be placed in front of a convex lens to get a real image of the size of the	[1]		
	object?			
	a) Between the optical centre and the focus			
	b) At 2F c) At Infinity d) At focus			
40	A student wants to obtain an erect image of an object using a concave mirror of 10 cm focal	[1]		
	length. What will be the distance of the object from mirror?			
	a) 10 cm b) between 10 cm and 20 cm			
	c) Less than 10 cm d) more than 20 cm			
Coat				
Secu	ion C – Social Science			
41	Brusselsis the capital city of	[1]		
41	Brusselsis the capital city of a) Germany b) Luxembourg c) Belgium d) France	[1]		
41 42	Brusselsis the capital city of         a) Germany       b) Luxembourg       c) Belgium       d) France         A legitimate government is one where:	[1] [1]		
41 42	Brusselsis the capital city of         a) Germany       b) Luxembourg       c) Belgium       d) France         A legitimate government is one where:         a) citizens, through participation, acquire a stake in the system	[1] [1]		
41 42	Brusselsis the capital city of         a) Germany       b) Luxembourg       c) Belgium       d) France         A legitimate government is one where:         a) citizens, through participation, acquire a stake in the system         b) citizens are ignored	[1] [1]		
41 42	Brusselsis the capital city of         a) Germany       b) Luxembourg       c) Belgium       d) France         A legitimate government is one where:         a) citizens, through participation, acquire a stake in the system         b) citizens are ignored         c) government does not interfere	[1]		
41 42	Brusselsis the capital city of         a) Germany       b) Luxembourg       c) Belgium       d) France         A legitimate government is one where:         a) citizens, through participation, acquire a stake in the system         b) citizens are ignored         c) government does not interfere         d) conflicts are encouraged	[1] [1]		
41 42 43	Brusselsis the capital city of         a) Germany       b) Luxembourg       c) Belgium       d) France         A legitimate government is one where:         a) citizens, through participation, acquire a stake in the system         b) citizens are ignored         c) government does not interfere         d) conflicts are encouraged         Name the community who got the benefit of economic development and education much later	[1] [1]		
41 42 43	Brusselsis the capital city of         a) Germany       b) Luxembourg       c) Belgium       d) France         A legitimate government is one where:       a) citizens, through participation, acquire a stake in the system         b) citizens are ignored       c) government does not interfere         d) conflicts are encouraged         Name the community who got the benefit of economic development and education much later in Belgium?	[1] [1] [1]		
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Section       41       42       43       43       44       45       46       47	Brusselsis the capital city of	<ul> <li>[1]</li> <li>[1]</li> <li>[1]</li> <li>[1]</li> <li>[1]</li> <li>[1]</li> </ul>		
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	b) Both A and R are true but R is not the correct explanation of A.				
	c) A is true but R is false.				
	d) A is false but R is true.				
48	Suppose in country A, 2 million children were born in 2017 and 80,000 died before the age of	[1]			
	one? Then, What is the infant mortality rate of country A?				
	a) 40 b) 80 c) 30 d) 60				
49	Economic development helps to increase:	[1]			
	a) Poverty b) Rural income c) Per capita income d) Equality				
50	There are 4 families in a country with per capita income \$40,000. Family A earns \$35,000,	[1]			
	family B earns ₹ 50,000, Family C earns ₹ 29,000. What is the income family D?				
<b>F</b> 4	a) $\neq$ 44,000 b) $\neq$ 48,000 c) $\neq$ 45,000 d) $\neq$ 46,000	543			
51	Assertion (A): Different persons can have different developmental goals.	[1]			
	<b>Reason (R):</b> The son of the family expects to get a new mobile phone if he secures good				
	marks in the exam while his sister wants to let her education continue further.				
	a) Both A and R are true and R is the correct explanation of A.				
	b) Both A and K are thue but K is not the correct explanation of A.				
	d) A is false but R is false.				
52	Dead the following statements about Human Development and shoese the correct ention:	[1]			
52	9 It is the composite Index prepared by United Nations Development Programme				
	(IINDP)				
	10. Parameters to measure it are Longevity, Literacy and Per Capita Income				
	10. Countries are ranked according to Developed and Low Developing countries.				
	12. World Bank also prepares report of Human Development on the basis of				
	13. Ouality of Life.				
	a) I and III b) I and II c) II and III d) II and IV				
53	Read the following events relating to the year 1848 and tick the incorrect event.	[1]			
	a) National workshops to provide employment were set up				
	b) Barricades were erected and Louis Philippe was forced to flee				
	c) Food shortages and widespread unemployment brought the population of Paris out on the				
	roads				
	d) National Assembly proclaimed a Constitutional Monarchy, granted suffrage to all adult				
	males above 18and guaranteed the right to work				
54	Name the state which led the process of Italian unification?	[1]			
	a) Vienna b) Sardinia Piedmont c) Prussia d) Rome	543			
55	Which of the quotes is said by Metternich?	[1]			
	a) Little by little, the old world crumbled, and not once did the king imagine that some of the				
	pieces might fail on him b) A notice is the subministion of a long next of and account a samifica and deviation				
	b) A nation is the culmination of a long past of endeavours, sacrifice and devotion.				
	d) Liberty equality fraternity or death: $\frac{1}{2}$ the last much the easiest to bectow O Cuillotine				
56	What territories did the Habshurg Empire rule over?	[1]			
50	a) Hungary b) Romania c) Austria d) Roth Austria and Hungary				
57	The German philosopher <b>Johann Gottfried</b> belonged to which one of the following schools of	[1]			
	thought?	[ * ]			
	a) Socialist b) Liberalist c) Marxist d) Romanticist				
58	Where was the Earth Summit held in 1992?	[1]			
	a) Rio de Janeiro b) New York c) Delhi d) France	L-1			
59	Which one of the following soils develops in an area with high temperature and heavy	[1]			
	rainfall?	• •			
	a) Alluvial b) Laterite c) Red and Yellow d) Black				
60	Which one of the following is the main cause of land degradation in Punjab?	[1]			
	a) Over irrigation b) Deforestation c) Intensive Cultivation d) Overgrazing				