

	Sample Paper-II		
Class:	IX		
Time:	02:30 Hrs.		
M.M:	75		

Personal Information

Student's Name:- _____ **Father's Name:-** _____

City:- _____ **Mobile No:-** _____ **Exam Date:-** / /2023

Studying in Class: _____ **Appearing for class:-** _____ **Board:** _____

GENERAL INSTRUCTIONS:

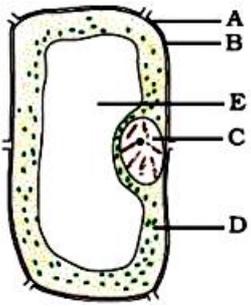
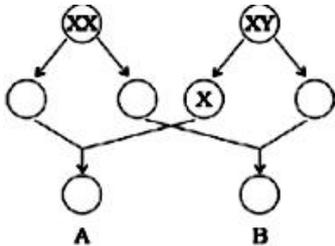
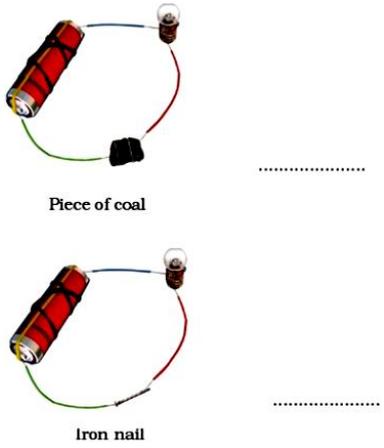
- All questions are compulsory.
- Section A contains 20 questions (from 1-20) of Mathematics.
- Section B contains 25 questions (from 21-45) of Science.
- Section C contains 10 questions (from 46-55) of Social Science.
- Section D contains 18 questions (from 57-73) of English.

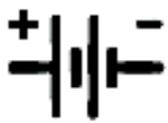
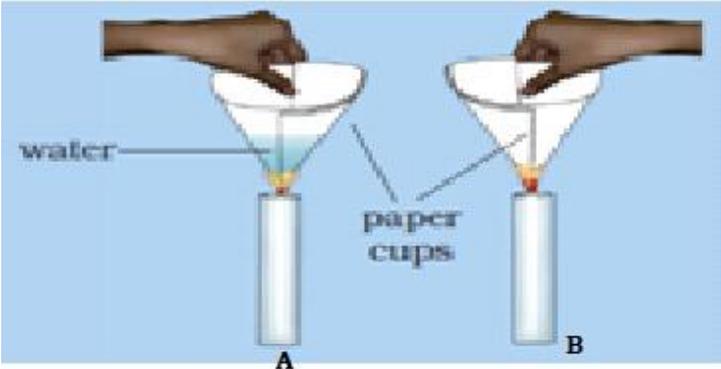
Mathematics (20)	Science (25)	So. Science (10)	English (20)	OBTAINED MARKS (75)

Section-A Mathematics		
Q.N	Questions	Answers
	Answer the Following Questions.	
1.	$\frac{5}{9} - \frac{3}{7} - \frac{3}{5} =$	
2.	$\frac{9}{7} - \frac{3}{7} \left(\frac{5}{2} - 5 \right) =$	
3.	$2\frac{1}{3} - 5\frac{3}{7} + 1\frac{1}{7} =$	
4.	$17 + (-7)5 + 7(-13) =$	

5.	$\frac{3}{7} + 6\left\{-\frac{1}{2} + \frac{7}{8}\right\} + \left(-\frac{1}{4}\right) =$	
6.	$19 - (-32) + (-8) + (-9)7 =$	
7.	25% of 300 =	
8.	69% of 2000 =	
9.	Find x so that $\left(\frac{5}{3}\right)^{-12} \times \left(\frac{5}{3}\right)^{-10} = \left(\frac{5}{3}\right)^{8x}$	
10.	Shyam scored 50 marks in computer out of 200, what is the percentage of marks he got.	
11.	Subtract $5x^4 + 3x^3 + 5x^2 - 3x + 7$ from $7x^4 - 4x^3 + x^2 - 5x + 7$.	
12.	Factorise $625x^2 - 289y^2$	
13.	Solve $\frac{5x+3}{3x-2} = \frac{9}{10}$	
14.	16 boys earn Rs. 800 in 5 days, how much will 30 boys earn in 5 days?	
15.	70% of 40 students are good at mathematics. How many are not at it?	
16.	One angle of a quadrilateral is 120° and the remaining three angles are equal. Find the three equal angles.	
17.	Two opposite angles of a parallelogram are $(5x-2)^\circ$ and $(52-x)^\circ$. Find the measure of each angle of the parallelogram.	
18.	The area of the circle is 64π sq. unit , then the circumference of the circle is	
19.	If x and y varies directly as each other and $x=4$ when $y=16$. Find the value of y when $x= 13$ is	
20.	Name the figure formed by the following points A(5,6) ,B(8,6) ,C(8,8) and D (5,8).	

Section-B		
Science		
	Give one word for the following:	
21.	Bacteria which is involved in the fixation of nitrogen in leguminous plants.	
22.	Causative organism of Malaria	
23.	Type of force when a blacksmith hammers an iron piece.	
24.	Part of ear which vibrates when outside sound falls on it.	
25.	Transparent front part of eye	
26.	Air usually doesnot allow electric charges to pass through it. It is an _____	
27.	A disc-like special tissue develops between the uterus wall and the embryo called _____	
28.	Wind and cyclones are caused by the _____ in air pressure.	
29.	_____ property enables metals to be drawn into thin wires.	
30.	_____ is called kitchen of cell	
Match the Column-A with Column-B:		
Column I		Column II
Organic manure		Fire extinguisher
Oxides of sulphur and nitrogen		Thermometer
Fungi		Blue green algae
Carbon dioxide		Acid rain
Mercury		Mushroom
31.	Organic manure	
32.	Oxides of sulphur and nitrogen	

33.	Fungi	
34.	Carbon dioxide	
35.	Mercury	
Answer the following:		
36.	<p>In the following figure showing animal cell identify the labeled part which help in osmoregulation in cell.</p> 	
37.	<p>Identify sex of offspring 'A' and 'B' from figure given below.</p> 	
38.	<p>Observe the following circuits carefully. In which circuit will the bulb glow. Write 'Yes' or 'No' in the blank space provided along each of the circuit given in Fig.</p>  <p>Piece of coal</p> <p>Iron nail</p>	

39.	Identify the give symbol (i)  (ii) 	
40.	Make two paper cups by folding a sheet of paper. Pour about 50 ml. of water in one of the cups. Heat both the cups separately with a candle as shown in figure below. Which cup will catch fire immediately 'A' or 'B'. 	
Solve the following questions.		
41.	You are provided with a mixture of petroleum and water. Can you suggest a method to separate the two?	
42.	Name the unit of which cellulose polymer is made.	
43.	Which type of fertilization is found in fishes?	
44.	When electric current is passed through acidified water, then hydrogen and oxygen are formed. What type of effect of current is illustrated by this statement?	
45.	Name the quantity whose unit is 'newton'(N)	

Section-C		
Social Science		
	Fill in the Blank	
46.	Resources that are drawn from Nature and used without much modification are called _____	
47.	The thin layer of grainy substance covering the surface of the earth is called _____	
48.	In 1817, _____ a Scottish economist and political philosopher, published a massive three-volume work, <i>A History of British India</i> .	
49.	Minerals are a _____ resource.	
50.	buildings, bridges, roads, machinery and vehicles, which are known as _____	
	One word answer.	
51.	Which country has no mineral deposit in it?	
52.	Who was the last Viceroy of India?	
53.	Where are the oldest-rocks in world located in?	
54.	How many elected members are there in Lok Sabha?	
55.	How many judges are there in the Supreme Court?	
Section-D		
English		
	Complete the following passage (From Q. No. 56 - 58) by choosing the appropriate word given in the bracket: (through, little , do/live , periods , to)	
	A desert is a special region where only certain kinds of plants and animals can survive. All deserts have very _____ 56 _____ water. This means that only animals and plants that can _____ 57 _____ without water for long _____ 58 _____ of time can exist in the desert.	

56.		
57.		
58.		

Read the passage given below and choose the correct option:

Life cannot be imagined without water, but clean and adequate water is still not accessible to most of the people in India. India receives 90 percent of the water from major or medium rivers. It has 14 major rivers each having catchment area of 20,000 sq. km and above; while there are 44 medium rivers with a coastline between 2000-20,000 sq. kms. Then there are 53 small rivers each with catchment area of 2000 sq. kms.

According to the 2011 census, annual per capita water availability in the country decreased to 1545 cubic meters from 1816 cubic meters as per the 2001 census. At present, this situation is even more worrisome. Scientists believe that by 2050 there will be a 30 percent decrease in the availability of water per person. The World Health Organization (WHO) recommends the availability of 200 litres of water per person per day in urban areas. On the contrary, 140 litres of water is supplied per person per day in the country.

Water resources in India are predominantly dependent on the monsoon. India receives an average rainfall of 4000 BCM (Billion Cubic Meter) every year from the rain, but most of it is vapourized and goes down the drains. Statistics show that a dearth of storage procedure, lack of adequate infrastructure, inappropriate water management have created a situation where only 18-20% of the water is actually used. The remainder just gets wasted, aggravating the problem of ground water depletion.

Our country's economy primarily rests on agriculture. Agriculture contributes 40 percent to the GDP of the country, and accounts for 60 percent of the total export revenues. Also, 60 percent of the related work. One of the major reasons for water crisis in the country is that as the area of irrigated land has increased, the level of groundwater has declined.

	Currently, India has a gross irrigated crop area of 82.6 million hectares (215.6 million acres), which is the largest in the world. As the population increases, the water storage capacity of ponds decreases. In fact, wells and ponds go dry after the water decreases at the ground level.	
	Based on your understanding of the passage, choose the appropriate option:	
59.	A person in the urban area should be supplied 60 more litres of water than what he or she uses now. (True/False)	
60.	What aggravates the problem of ground water depletion? (a) wastage of rain water (b) increase in population (c) both (a) and (b) (d) inappropriate water management	
61.	As a sector, agriculture contributes to the country's economy by (a) contributing 40 percent to the GDP of the country. (b) contributing 60 percent of the total export revenues. (c) employing 60 percent of the country's population. (d) all of the above	
62.	The problem of ground water depletion cannot be resolved to a large extent unless (a) rain water storage procedure is not improved and enhanced. (b) people use less water. (c) digging of wells stops. (d) land under irrigation is not decreased.	
63.	Which of the following about availability and use of water in India is correct? (a) India doesn't depend on monsoon for water. (b) Less water will be available to the people of India by 2050. (c) Population increase is not a reason for ground water depletion. (d) Most of the rainwater is not available for use as it is either vaporised or goes into the drains.	

	<p>Read the sentences given below and fill in the blanks by choosing the most appropriate options from the ones that follow.</p> <p>She (64) _____ read 300 words per minute which is more than the average reading speed. It's a wonder. A group of teachers (65) _____ critical about her. Then we met Maurice whose strategies works like magic wand (66) _____ help Nova start reading.</p>	
64.	(a) could (b) shall (c) can (d) will	
65.	(a) were (b) are (c) is (d) was	
66.	(a) for (b) to (c) in (d) at	
	Solve the following questions based on letter writing:	
67.	<p>What is written on the top of Editor's letter on the left side?</p> <p>(a) Sender's address (b) Receiver's address (c) Date (d) Salutation</p>	
68.	<p>What is written below sender's address in a letter to editor?</p> <p>(a) Date (b) Receiver's address (c) Subject (d) Salutation</p>	
69.	<p>Which of these is the right format of writing the date in all the formal letters?</p> <p>(a) 23/03/2021 (b) 23rd March 2021 (c) March 23, 2021 (d) Both (a) and (c)</p>	
	Look at the words and phrases given below. Rearrange them to form meaningful sentences.	
70.	exercises / for / health / good / doing / is	
71.	days / aware / their / health / these / people / are / more / of /	

