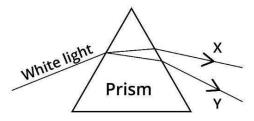
Class 8			Science		
Name:		Date:		Max. Marks: 80	Time: 180 min.
Instructions: • Read the question: • Write your name a: • Write the answers: • Write only the que	nd the date on on the answer	the question patheet.	paper and th	e answer sheet. Do not write the questio	ns.
Choose the correct	options.				(16 × 1 = 16 marks)
1) Which of the	ne following cor	mponents give	es green colo	our to leaves?	
A. Ribosome		B. Mitochon	dria	C. Chloroplast	D. Chromosome
	e correct formul alency = 1)?	a for the mole	cule formed	by aluminium (valency	=3 and
A. Al3Cl	B. AlCl3	C. AlCl2	D. AlCl		
				rds the right. As he doe net force acting on the l	
	vards the left vards the left			B. 5 N towards the righ D. 25 N towards the rig	
4) Which of the	ne following mid	croorganisms	cause meas	es?	
A. Bacte	eria B. Viru	s C. Fu	ngi D. I	Protozoa	
5) The part o A. iris.	the human eye B. retina.	e that acts like C. pupil.	a screen is D. cornea.	the	
6) Which of the	ne following is N	NOT a disadva	antage of usi	ng chemicals as pestic	des?
B. Upon get C. They into	rease soil fertili ting washed ou rfere with the p nicals stick to th	t, they can ca rocess of pho	tosynthesis.	ollution. ealthy for consumption.	
7) Which of the	-	tements is co	rrect about fr	iction between the brak	e pad and

A. High friction → Car stops quickly → Less wear and tear of brake pads.
B. High friction → Car stops slowly → Less wear and tear of brake pads.
C. High friction → Car stops quickly → More wear and tear of brake pads.
D. High friction → Car stops slowly → More wear and tear of brake pads.

- 8) Which of the following cell organelles is NOT present in plant cells?
  - A. Plastids
- B. Golgi bodies
- C. Centriole D. Ribosomes
- 9) Which of the following statements is/are true with respect to eukaryotic cells?
- 10) I. They have a well-defined nucleus.
  - II. Examples of eukaryotic cells are bacteria and blue-green algae.
  - III. Their genetic material floats freely in the cytoplasm.
  - A. I and III
- B. I and IV
- C. Only I
- D. Only II
- 11) Which of the following statement/s are the reasons for ploughing the soil before sowing seeds?
  - I. For better root penetration
  - II. To enhance the growth of weeds
  - III. To promote the growth of earthworms
  - IV. To make the nutrients easily accessible to the plants
  - A. I and II B. III and IV C. I, II, and III D. I, III, and IV
- 12) A beam of white light strikes the surface of a glass prism and splits into its constituent colours. The diagram below represents two such light rays X and Y which emerge out of the glass prism.

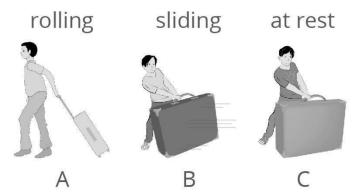
Which of the following statements about rays X and Y is true?



- A. Ray X bends more than Ray Y.
- B. Ray Y bends more than Ray X.
- C. Speed of Ray X is greater than the speed of Ray Y in a glass prism.
- D. Speed of Ray Y is greater than the speed of Ray X in a glass prism.
- 12) Zinc displaces copper from copper sulphate to form zinc sulphate. Will copper displace zinc from zinc sulphate as well?
  - A. Yes, because copper is more reactive than zinc.
  - B. No, because copper is more reactive than zinc.
  - C. Yes, because copper is less reactive than zinc.
  - D. No, because copper is less reactive than zinc.

13)	Which of the following materials can be used to complete the given circuit and make the bulb glow?  Bulb  Cell							
		glass rod ice cream	stick			pencil with be paper straw	oth ends sh	narpened
14)	Why is it not advised to take antibiotics to treat the common cold?							
	В.	Antibiotics	e harmful. s decrease im s do not work a s do not work a	against ba				
15)	A. B.	unit of pre Pascal Newton Joule Second	essure is					
16)	Shabri is a farmer. She is preparing the field to sow seeds in the month of June. Which seeds are suitable to grow during this time of the year?				h of June.			
	A.	Gram	B. Wheat	C. Cot	ton	D. Mustar	d	
17)	Fill in	the blanks	S.				(8 × 1	= 8 marks)
	A.		object is plac			parallel mirr	ors, we ge	t
	В.	Bacteria, microorg	anisms.	_, protozoa	a, and	algae are fo	our major gi	oups of
	C. D.	,						
	E. F.		is called erty of metals	=			an into she	ets is called
			·					
	G.		icles obtain a ion between s		•	•		s is because of ·
	Н.		oox of height 2 rmed by the m	-		-	e mirror, th	e height of its

- 18) Becca and Brijesh sit next to each on the last bench in their class. Becca finds it hard to read from her textbook while Brijesh finds it difficult to read from the blackboard.
  - (a) Identify the defect of visions for each of them.
  - (b) Suggest two ways in which we can take care of our eyes.
- 19) Ajay and Rahul grew crops in two separate fields. Ajay had prepared the soil by turning and loosening it before sowing the seeds, whereas Rahul had directly sowed the seeds on his field. Who do you think had a better harvest? Give a reason for your answer.
- 20) Observe the images showing three suitcases being pulled.



Arrange the force required to overcome friction in A, B and C in ascending order. Give reasons for your answer.

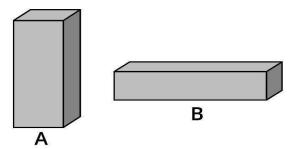
- 21) Swati learnt in her science class that the Bengal tigers are at high risk of getting extinct. According to Red Data Book, Bengal tigers belong to which category of species? Explain any one way to conserve animals from getting extinct.
- 22) A student performed an experiment to find out what substances can be used to preserve sliced apples for a week. To do this, he took equal-sized slices of apples and coated them with different substances. The given table shows some of his observations.

Apple Slice	Substance Used	Observation		
1	Salt	No fungal growth		
2	Lemon Juice	Shows fungal growth after 4 days		
3	None	Shows fungal growth after 2 days		

- (a) Why did Slice 1 show no fungal growth even after one week?
- (b) Explain any other method using which sliced apples can be preserved.
- 23) A. Which of these two metals zinc or silver will displace iron from iron sulphate solution? Give a reason for your answer.
  - B. Name a metal that reacts spontaneously when exposed to air. Write a chemical equation for this reaction.
- 24) Differentiate between an element and a compound, giving one example of each.

25)

- A. Ball A is rolled down a slope covered with a plastic sheet. A similar Ball B is rolled down a similar slope covered with a towel. Which ball will cover a greater distance on flat ground, after rolling down the slope? Give a reason for your answer.
- B. Two similar bricks are placed on a cemented floor in two different ways, as shown. Equal force is applied on each of them to move them 1 meter away from their original positions.



Will the friction acting on the two bricks be different when they are moved? Give a reason for your answer.

- 26) List any three uses of microorganisms in food production.
- 27) Write various effects of force.
- 28) Draw a neat diagram of a plant cell and label any two parts that are absent in animal cells.
- 29) Which organelles are known as the suicidal bags of the cell and why? What is their function in the cell?
- 30) Write any three advantages of manure over fertilisers.

- 31) Define static friction, sliding friction and rolling friction with examples.
- 32) Give scientific reasons for each of the following statements.
  - A. The word 'AMBULANCE' is written in reverse on the ambulance vehicle.
  - B. In a dark room, we can see objects to some extent, but we cannot identify colours.
  - C. Nocturnal animals, such as owls, can see much more clearly in the dark than human beings.
  - D. Even in a sufficiently lit room, an object should be kept about 25 cm away from our eyes for us to be able to see it without straining our eyes.
- 33) A substance 'X' burns in the air with white light and forms a powder 'Y'. This powder when mixed with water and tested with red litmus, turns it blue.
  - a. Identify the substances X and Y. And write the word equation for the reaction.
  - b. What is the gas produced when X reacts with hot water? Write the word equation to show the reaction.
- 34) What are contact and non-contact forces? Explain with two examples each.
- 35) Just like solids, pressure is exerted by liquids and gases too.
  - a. What are the two factors that affect liquid pressure? Give one example for each.
  - b. What is the pressure the air exerts due to its weight called? Why are we not crushed due to this pressure exerted by air?

36)

- a. Why do we need to preserve food?
- b. Give two examples of preservatives.
- c. Name and describe the method of preserving milk.