

ANGEL'S PUBLIC SCHOOL

SAMPLE PAPER

		HALF TEAKL	. TEXAW SESSION 2 CLASS - X	2025 – 26					
Т	IME: 3 HRS		SUBJECT : SCIENCI	E M.M:80					
G	eneral Instruction	s:							
	(a) This question	n paper consists o	of 39 questions in 5 sections	5.					
	. ,	s are compulsory.	·						
	• •		tive type questions carrying	1 mark each.					
		d) Section B consists of 6 Very Short questions carrying 02 marks each. Answers to these							
	questions	,	, , ,						
	(e) should be in the range of 30 to 50 words.								
	• •	Section C consists of 7 Short Answer type questions carrying 03 marks each. Answers							
	to these		, , , , , , , , , , , , , , , , , , ,	, 3					
	(g) questions sh	ould be in the rang	ge of 50 to 80 words.						
	(.		_	ring 05 marks each. Answer to					
	these	•							
	(i) questions sh	ould be in the ran	ge of 80 to 120 words.						
				of assessment of 04 marks					
	each with su	b– parts							
		•	SECTION - A						
1.	Y + HCl> Z	nCl2 + H2 . In the	above reaction , Y is:						
	(a) Al		(c) Na	(d) Zn					
2.	` '	` '	e is used for treating indigest	` '					
		(b) Analgesic							
3.	` '	` '	ell to give a gas that can turn	• •					
	(a) NaCl		(c) LiCl	(d) KCl					
4.	Rusting of Iron is	example of following	` '	,					
	(a) oxidation	(b) reduction	(c) displacement	(d) addition					
5.	Lemon juice have	ph value:	, , .	• •					
	_	-	(c) equal to 7	(d) zero					
6.	On adding dilute s	ulphuric acid to a te	est tube contains a metal X , a	colourless gas is produced wher					
а	burning matchstick is brought near it . Which of the following correctly represents metal X .								
	(a) Sodium	(b) Sulphur	(c) Copper	(d) Silver					
7.	The colour of the s	solution observed af	fter 30 minutes of placing iron	nails to copper sulphate solution					
is	: (a) blue	(b) colourles	ss (c) green	(d) brown					
8.	Generally food is b	oroken and absorbe	d within the body of organism	ns. In which of the					

9. Receptors are usually located in sense organs. Gustatory receptors are present in: (c) eye (b) nose (a) tongue (d) ear

(c) Paramecium

(d) Lice

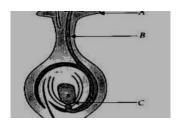
following organisms is it done outside the body?

(b) Mushroom

(a) Amoeba

10. A farmer wants to grow available in his field. When purpose?(a) Regeneration(c) Vegetative propagat11. This hormone is not a factorial formula.	nich one of the following	•	ld you sugge		•				
11. This hormone is not a g (a) Cytokinin		(c) Ethy	lene	(h)					
12 . A sportsman, after a loa	` '	` '		` '	durina				
a heavy exercise session (a) lack of carbon dioxion (b) presence of oxygen (c) lack of oxygen and (d) lack of oxygen and	on. This happened due de and formation of py and formation of etha formation of lactic acid formation of carbon di	to: rruvate. nol. oxide.		orampo	udiniy				
13. A full length of the Imag			_						
(a) Convex merrier	` '	` '		,	d) None of these				
14. The change in the foca		_							
(a) Pupil	` ,	(c) iris		(d) ciliar	cy muscle				
15. The brain is responsible		() D			1) All 6 (I				
(a) Balancing (b) above	Ininking	(c) Regulatii	ng the heart l	peat (d) All of the				
16. The hormone that is re	aleaced from the tester	e ie							
(a) Progesterone (b)V			terone	(c	1) None of the				
above Question No. 17 to 2									
			on (rt) and rt	300011 (11	y. 7 (110 W O)				
these questions selecting the appropriate option given below: (a) Both A and R are true, and R is the correct explanation of A.									
(b) Both A and R are true, and R is not the correct explanation of A.									
(c) A is true but R is fals									
(d) A is false but R is tru									
17. Assertion: Rusting of i		ature							
Reason: As reaction is			dent						
18. Assertion: Asexual rep		•		ism.					
Reason: Clones are m			•						
19. Assertion: Clear sky i		,							
Reason: Blue colour ha	as shorter wavelength	and it scattered	most.						
20. Assertion: The name '	master endocrine glar	nd of body' is giv	en to the pitu	uitary gla	nd.				
Reason: Hypothalamus controls over the master gland.									
	<u>SEC</u>	TION - B							
21. A shiny brown coloured	_	in air becomes	black in colo	our . Nam	ne the element X				
and the black coloured	•		(1						
22 . What is the purpose of	making urine in the hu	ıman body? Nar	ne the organ	s that sto	ores and				
releases the urine.		OD							
\\/\langle\	alah amal alaan	OR							
Why do arteries have thick and elastic walls whereas veins have valves?									

23. Observe the diagram and label the parts marked (a), (b) and (c)



- **24.** Why does a light ray incident 17 on a rectangular glass slab immersed in any medium emerges parallel to itself? Explain using a diagram.
- 25. Why do we see a rainbow in the sky only after rainfall?

OR

What happens to the Image distance in the eye when we increase the distance of the object from the eye.

26. Write two different ways in which glucose is oxidised to provide energy in human body. Write the products formed in each case.

SECTION - C

- 27. Explain Chloro— alakali process and preparation of plaster of Paris with suitable chemical reaction.
- 28. With suitable chemical reactions explain why sodium bicarbonate is used in:
 - (a) fire extinguisher (b) baking industry
- 29. We are advised to take iodised salt in our diet by doctors. Justify its importance in our body.
- 30. What is the probability of a girl or a boy being born in a family? Justify your answer.
- **31.** A 4.5 cm needle is placed 12 cm away from a convex mirror of focal length 15cm. Give the location of the Image and its magnification.
- **32.** (a) Why we prefer a convex mirror as rear view mirror in a vehicle.
- (b) Light enters from air to glass plate having refractive index 1.5. What is the speed of light in glass.
- 33. (a) Why does a ray of light bend when it travels from the one medium to another.
- (b) Calculate the distance at which an object should be placed from a their convex lens of focal length 10 cm to obtain a virtual Image of double its size.

SECTION - D

- **34.**(a) Equal lengths of magnesium ribbons are taken in test tube A and B. HCl acid is added to test tube (A) while acetic acid is added to test tube (B). Amount and concentration taken for both acids are same .In which test tube will the fizzingoccurs more vigorously and why?
 - (b) Explain briefly the preparation of washing soda.
- 35. Given below are certain situations. Analyze and describe its possible impact on a person:
 - (a) Testes of a male boy are not able to descend into scrotum during his embryonic development.
 - (b) Vas deferens of a man is plugged.
 - (c) Prostate and seminal vesicles are not functional.
 - (d) Egg is not fertilised in a human female.
 - (e) Placenta does not attach to the uterus optimally.

OR

- (a) A doctor has advised Sameer to reduce sugar intake in his diet and do regular exercise after checking his blood test reports. Which disease do you think Sameer is suffering from? Name the hormone responsible for this disease and the organ producing the hormone.
- (b) Which hormone is present in the areas of rapid cell division in a plant and which hormone inhibits the growth?

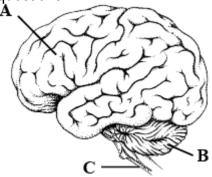
- **36.** (a) What is depression of white light? What is its cause? Draw a diagram to show the depression of white light by a glass prism?
 - (b) Explain why glass slab does not shows dispersion white glass prism does?

SECTION - E

37. (a) Perform an activity to prove evolution of carbondioxide gas when acid reacts with metal carbonate

Explain with well labelled diagram and chemical reaction.

- (b) How concentration of hydroxide ion affected when excess base is dissolved in a solution of sodium hydroxide .
- **38.** The diagram given below is an external view of the human brain. Study the same and answer the questions:



- (a) Label the parts a, b, c.
- (b) State the main functions of the parts labelled a and b.
- (c) Mention the collective term for the membranes covering the brain.
- (d) What is the function of Cerebrospinal fluid?
- **39.** (a) We wish to obtain an equal sized inverted Image of a candle flame on a screen kept at a distance of 4m from the candle flame.
 - (i) What type of lens should be used.
 - (a) convex
- (b) concave
- (c) Both (a) and (b) (d) cannot say
- (ii) The distance of the candle from the lens is.
 - (a) 1m
- (b) 2 m
- (c) 3 m

(d) 4 m

(b) Draw the ray diagram for the above situation