O. P. JINDAL SCHOOL, SAVITRI NAGAR Half Yearly Examination— (2023-24)

Class/Sec- VII/ Subject – Science Name			MM - 80 Time- 3 hours Roll No.
	will be given for read — All the questions ar	ing the Question Paper e compulsory.	
2. Section A, Q1 com 3. Section B, Q2 com 4. Section C, Q3 com 5. Section D, Q4 to Q 6. Section E, Q13 to	prises of 12 MCQ typ prises of 4 Case-Base aprises of 4 Assertion- 12 are very short ans Q21 are short answer	e questions and carrie	rries 2 marks each.
O1 Chaosa Tha Car		ECTION - A	
Q1. Choose The Cor			(12X1=12)
(i) Which of these is a			
(a) Lichen	(b) Pitcher plant	(c) Mushroom	(d) Dodder plant
(ii) Green plants are co	alled		
(a) Autotrophs	(b) Heterotrophs	(c) Saprotrophs	(d) Both a and b
(iii) Find the odd one	out.		
(a) Liver	(b) Pancreas	(c) Gall bladder	(d) Rumen
(iv) What juice is store	ed by the gall bladder?		
(a) Pepsin	(b) Bile	(c) Glucose	(d) Fructose
(v) An iron ring is hea temperature. Heat	ted to temperature 120 (temperature) will flow	°C and is put in a tumble of from	er containing water at 30°C
(a) Water to iron	(b) Iron to water	(c) Does not flow	(d) Air to water
(vi) Convection proces	ss takes place in case o	f	
(a) Solid only	(b) Liquid only	(c) Gas only	(d) Both b and c

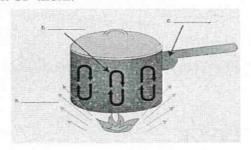
(vii) The degree of ho	tness or coldness of a	material is called its	
(a) Thermometer	(b) Humidity	(c) Temperature	(d) Celcius
(viii) Acidic soil can	be neutralized by add	ing	
(a) Quicklime	(b) Vinegar	(c) Nitric acid	(d) Indicators
(ix) Which acid is pre	esent in lemon juice?		
(a) Acetic acid	(b) Citric acid	(c) Formic acid	(d) Hydrochloric acid
(x) Which of these or	ganisms breathe throu	igh anaerobic respiration	2
(a) Fish	(b) Yeast	(c) Mammals	(d) Algae
(xi) Cramps in muscle	es occurs due to accu	mulation of	
(a) Lactic acid	(b) Folic acid	(c) Glucose	(d) Carbon dioxide
(xii) In insects, the ai	r enters the body thro	ugh	
(a) Lungs	(b) Gills	(c) Spiracles	(d) Mouth
		SECTION -B	
O2 I calc at the diag	gram and answar th	e following questions.	(4X1=4)
Q2. Look at the dia	gram and answer th	tonowing questions.	(42(1-4)
	(0))=	
ag .	_		
(i) What represents t	he symbol?		
(a) Compass	(b) Magnet	(c) Switch	(d) Bulb
(ii) The circuit is a _	(-)	circuit.	N. F.
(a) Closed	(b) Opened	(c) Strong	(d) Both a and b
(4) 270004	(c) opened	V-7	New Assessment Control (1997)

(iii) Identify the symbol	ol present in the circuit.		
(a) Switch (ON)	(b) Switch (OFF)	(c) Terminal	(d) Wire
(iv) How many termin	als does the cell have?		
(a) One	(b) Two	(c) Three	(d) Four
	SEC	TION -C	
Q3. A statement of As	ssertion is given by the c	orresponding state	ment of Reason. Choose the
correct answer.			(4X1=
	of a pendulum is periodi		
Reason – Oscillator	y motions are periodic m	otion.	
(a) Assertion and rea	ason both are correct and	reason is correct exp	planation for assertion.
(b) Assertion and rea	ason both are correct and	reason is not correc	t explanation for assertion.
(c) Assertion is corre	ect but reason is a wrong	statement.	
(d) Assertion is wro	ng but reason is a correct	statement.	
(ii) Assertion – The un	nit of time in speed is refe	rred as second.	
Reason – The SI un	nit of time is minute.		
(a) Assertion and rea	ason both are correct and	reason is correct ex	planation for assertion.
(b) Assertion and re-	ason both are correct and	reason is not correct	et explanation for assertion.
(c) Assertion is corre	ect but reason is a wrong	statement.	
(d) Assertion is wro	ng but reason is a correct	statement.	
(iii) Assertion – A car	travelling on a straight ro	ad is always said to	be in uniform motion.
Reason – The spee	ed of an object with unifo	rm motion along a s	traight line remains constant.
(a) Assertion and rea	ason both are correct and	reason is correct ex	planation for assertion.
(b) Assertion and re-	ason both are correct and	reason is not correct	et explanation for assertion.
(c) Assertion is corr	ect but reason is a wrong	statement	
(d) Assertion is wro	ng but reason is a correct	statement.	
			Day

(iv) Assertion – Sitting in a moving train, the outside appears to be in motion. **Reason** – Motion is relative. (a) Assertion and reason both are correct and reason is correct explanation for assertion. (b) Assertion and reason both are correct and reason is not correct explanation for assertion. (c) Assertion is correct but reason is a wrong statement (d) Assertion is wrong but reason is a correct statement. SECTION -D (9X2=18)**Q4.** Why do organisms take food? Q5. Draw a neat diagram to show photosynthesis in plants. (i) Saliva (ii) Buccal cavity. Q6. Define Q7. Why do we get instant energy from glucose? Q8. In places of hot climate it is advised to paint outer walls of houses white. Give reason. OR Wearing two thin layers of clothes during winter keeps us warmer than wearing one layer of thick layer of cloth. Why? Q9. Write two similarities between clinical thermometer and laboratory thermometer. Q10. Why do we take an antacid when we suffer from acidity in stomach? Q11. Is the distilled water acidic/basic/neutral? How would you verify it? OR Describe the process of neutralization with the help of an example. Q12. A car takes 2 hours to cover 70 km distance. Find the speed in km/h. SECTION -E (9X3=27)Q13. Give a brief description on how ruminants digest their food? OR How can you show the effect of saliva on starch? (iii) Parasites O14. Define (i) Autotrophs (ii) Heterotrophs

Q15. Show the transfer of heat conduction, convection, radiation in the picture marked as a, b, c.

Also define all of them.



- Q16. (i) Why does a turmeric stain on white shirt turns red when washed with soap?
 - (ii) Blue litmus dipped in a solution remains blue. Write down the nature of the solution.
- Q17. Explain how movement of diaphragm and ribs help in the process of breathing.

OR

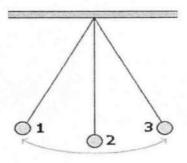
What is respiration? Name any four different organisms use different organs to breathe.

- Q18. Explain aerobic and anaerobic respiration with example.
- Q19. Name the type of motion in the picture. Is it periodic? Why?



OR

See the picture below. Explain its motion and the time taken to complete one motion.



- Q20. Name the motion of a ball that is dropped from a height. How is it different from the motion of a pendulum?
- Q21. (i) How does a bulb glow?
 - (ii) How can you show electric current produces heating effect? (Activity)

SECTION -F (3X5=15)

- Q22. (i) What acid is injected by an ant when it bites? How can you cure an ant bite?
 - (ii) What happens when hydrochloric acid and sodium hydroxide are treated with turmeric indicator?

OR

- (i) Write three differences between acids and bases.
- (ii) Define indicator. Why are indicators used?
- Q23. Draw a well labeled diagram of the respiratory system in human being.

OR

Draw and explain the function of diaphragm when we inhale and exhale air.

Q24. Explain the working of an electric bell with diagram.

OR

Explain construction of a simple electromagnet with a labeled diagram.
