

ST. THOMAS SCHOOL, SAHIBABAD
ANNUAL EXAMINATION WORKSHEET (2023-2024)
CLASS VII
SCIENCE (086)

Time: 3 Hours

MM: 80

General Instructions:

- I) This Question paper consists of 39 questions in 5 sections.**
- II) All questions are compulsory.**
- III) Section A consists of 20 objective questions carrying 1 mark each.**
- IV) Section B consists of 6 Very short questions carrying 2 marks each.**
- V) Section C consists of 7 Short Answer type questions carrying 3 marks each.**
- VI) Section D consists of 3 Long Answer type questions carrying 5 marks each.**
- VII) Section E consists of 3 Case Based units of assessment of 4 marks each with sub parts.**
- VIII) Overall choice is not given however internal choice has been provided.**

SECTION-A

1.	The fusion of female reproductive nucleus with the male reproductive nucleus is known as				1
	a) Adoption	b) Excretion	c) Fertilisation	d) Regeneration	
2.	Reproduction through the vegetative parts of a plant is-				1
	a) Sexual reproduction	b) Asexual reproduction	c) vegetative propagation	d) Pollination	
3.	The basic unit of speed is:				1
	a) km/min	b) m/min	c) km/h	d) m/s	
4.	Bryophyllum, can reproduce by its:				1
	a) Stem	b) Root	c) Flower	d) Leaves	
5.	The instrument installed in a car for measuring the distance travelled by the car is called.				1
	a) Barometer	b) Speedometer	c) Anemometer	d) Odometer	
6.	If we denote speed by S, distance by D and time by T, the relationship between these quantities is				1
	(a) $S = D/T$	(b) $T = S/D$	(c) $S = 1/T \times D$	(d) $S = T/D$	
7.	The meter that is used to measure the speed of a vehicle is-				1
	(a) Speedometer	(b) Odometer	(c) Anemometer	(d) Thermometer	
8.	If an object is placed at a distance of 0.5 m in front of a plane mirror, the distance between the object and the image formed by the mirror will be				1
	(a) 2 m	(b) 1 m	(c) 0.5 m	(d) 0.25 m	
9.	A Virtual image				1
	(a) can be formed on the screen				
	(b) cannot be formed on the screen				
	(c) is formed only by the plane mirror				
	(d) is formed only by the convex mirror				

10.	White light is composed of-				1
	(a) three colours	(b) seven colours	(c) five colours	(d) eight colours	
11.	The path of the light is-				1
	(a) always a straight line	(b) a curved line	(c) a zig-zag line	(d) depends on the medium	
12.	Which of the following dispersal agents does the balsam plant use?				1
	a) Animals	b) Wind	c) Water	d) Explosion	
13	Which of the following is not a source of electric current?				1
	a) Car battery	b) Dry cell	c) cell	d) electromagnet	
14	The thin wire inside a bulb is a				1
	(i) Coil	(ii) Magnet	(iii) Filament	(iv) None of these	
15	Which blood cells contain haemoglobin?				1
	(i) RBC	(ii) WBC	(iii) Platelets	(iv) All of these	
16	Which of the following is associated with the transport of water in plants?				1
	(i) Xylem	(ii) Phloem	(iii) Chloroplast	(iv) None of these	
	Read the Assertion and Reason statements carefully and mark the correct option out of the following options: (Q. Nos. 13-16) (a) Assertion and Reason are true and Reason is the correct explanation of Assertion (b) Assertion and Reason are true but Reason is not the correct explanation of Assertion (c) Assertion is true, but Reason is false (d) Assertion is false but Reason is true.				
17.	Assertion: The distance moved by an object in unit time is called its speed. Reason: Faster vehicles have higher speeds.				1
18	Assertion: Light travels along straight lines. Reason: White light is composed of seven colors.				1
19.	Assertion: Copper is widely used in electrical appliances . Reason: It is a very good conductor of electricity.				1
20.	Assertion: Pulmonary artery carries impure blood to the lungs. Reason: Pulmonary vein carries impure blood from lungs to the heart.				1
	SECTION-B				
21	State the functions of blood in our body.				2

22	State two advantages of vegetative propagation in plants.	2
23	The distance between two stations is 240 km. A train takes 4 hrs to cover this distance. Calculate the speed of the train.	2
24	The current is switched on through a wire, a compass needle kept nearby gets deflected from its north position. Explain. Or Name any two effects of electric current.	2
25	When does an electric short circuit occur?	2
26	Name any two types of spherical mirrors ? Which type of mirror can form a real image	2
SECTION-C		
27	What is the difference in the shape of a concave and a convex mirror? Give one use of each.	3
28	White light consists of seven colours. Can we mix these seven colours to get white light? Explain your answer.	3
29	What is meant by a battery? How will you arrange two cells to make a battery with the help of a diagram.	3
30	Salma takes 15 minutes from her house to reach her school on a bicycle. If the bicycle has a speed of 2m/s, calculate the distance between her house and the school.	3
31	Explain how wastes are removed from the body.	3
32	How are plants benefited by seed dispersal? Or How do potatoes reproduce?	3
33	How time was measured when pendulum clocks were not available?	3
SECTION-D		
34	Show that the image is at the same distance behind the plane mirror as the object is in front of it.	5
35	How does the process of fertilisation take place in flowers? Or Explain reproduction through spore formation in fungus.	5
36	Write a note on excretory system in humans with the help of a well labelled diagram.	5
SECTION-E		
Case Based Question Answer the questions on the basis of your understanding of the following passage and related studied concepts: (Q. Nos. 17-24)		
37	Light is a form of energy which induces sensation of vision to our eyes. It becomes visible when it bounces off on surface and hits our eyes. Regular reflection takes place through a smoothed polished surface. The mirror outside the driver side of vehicles usually a spherical mirror and printed on such a mirror is usually a warning "Vehicles in this mirror are closer than they appear."	
i	Name the type of spherical mirror used outside the driver side of a vehicle.	1

ii	What is the reason for this warning written on the mirror?	1
iii	What are spherical mirrors?	1
iv	What is a real image??	1
38	Haemoglobin binds with oxygen and transports it to all the parts of the body and ultimately to all the cells. It will be difficult to provide oxygen efficiently to all the cells of the body without haemoglobin. The presence of haemoglobin makes blood appear red.	
i	Which fluid flows in blood vessels?	1
ii	What makes blood appear red in colour?	1
iii	What role does blood play in the body?,	1
iv	How is oxygen transported in the body?	1
39	The production of new individuals from their parents is known as reproduction. Most plants have roots, stems and leaves. These are called the vegetative parts of a plant. After a certain period of growth, most plants bear flowers. You may have seen the mango trees flowering in spring. It is these flowers that give rise to juicy mango fruit we enjoy in summer.	
i	Which part is involved in the reproduction of plants?	1
ii	Name the vegetative parts of plants?	1
iii	Define Reproduction.	1
iv	How a zygote is formed in sexual reproduction?	1