



Time: 1 hr 20 min.

General Instructions:-

1. All questions are compulsory.

Q.No.	Questions	Marks
1	A disease in human beings caused by viruses is _____. (a) typhoid (b) dysentery (c) influenza (d) cholera	1
2	A human eye can focus objects at different distances by adjusting the focal length of the eye lens. This is due to _____. (a) myopia (b) persistence of vision (c) power of accommodation (d) hypermetropia	1
3	Which of the following non-metals is stored in the water? (a) Sodium (b) Potassium (c) Phosphorus (d) Calcium	1
4	The maximum displacement of a body from its mean position is called _____. (a) amplitude (b) oscillation (c) periodic motion (d) frequency	1
5	Human can hear sound in the range of :- (a) 200 - 2000 Hz (b) 20 - 20,000 Hz (c) 2 - 20000 Hz (d) 2000 - 200000 Hz	1
	For question number 6 ,two statements are given_ one labeled Assertion(A) and the other labeled Reason(R).Select the correct answer to these questions from code(i),(ii),(iii) and(iv) as given below: (i) Both A and R are true and R is the correct explanation of A. (ii) Both A and R are true and R is not the correct explanation of A. (iii) A is true but R is false. (iv) A is false but R is true.	
6	Assertion (A) : The near- point of a hypermetropic eye is more than 25 cm away. Reason (R) :-Hypermetropia is corrected using spectacles containing concave lenses.	1
7	(a) Write the preservation method of the following:- (i) millets (ii) nuts (b) Name one bacteria that cause food poisoning.	1+1=2
8	(a) Two astronauts, on the surface of the moon, cannot hear each other's sound without using any device. Give a reason. (b) When is a given sound regarded as a musical sound or music?	1+1=2
9	What kind of lens is there in our eyes? Where does it form the image of an object.	2
10	Fill in the blanks to complete the following paragraph. (a) The name of the product formed in the reaction of Sulphur and (i) _____ is Sulphur dioxide gas. When Sulphur dioxide gas dissolved in (ii) _____, Sulphurous acid is formed. The Sulphurous acid turns(iii) _____ Litmus to (iv) _____. Generally oxides of (v) _____ are acidic. (b) Name one Non- metal that is used in matchbox industry and in fertilisers.	3
11	(a) Explain briefly the mechanism of production of sound in human beings. (b) Name two musical instruments which produce sound through vibrating strings.	2+1=3
12	Naman's grandfather uses his spectacles to read a street sign board across the street. (a) Name the defect Naman's grandfather is suffering from.	3

	(b) Write any one cause of this defect. (c) How can this defect be corrected.	
13	(a) Differentiate between metal and non-metal on the basis of the following:- (i) melting and boiling point (ii) Hardness (iii) tensile strength (b) Give reason for the following :- (i) Copper and iron are used for making cooking utensils and water boilers. (ii) Graphite is used in batteries.	3+2=5
14	Rohan's wife decides to take their daughter for her first round of vaccinations. However, Rohan's mother does not like the idea of putting the child through the discomfort of injections. Rohan explains to his mother in a polite and patient way, that this slight discomfort and pain is necessary as it shall ensure that the child lives a long and healthy life. Ques (a) What are antibiotics ? (b) How does vaccination help in providing immunity ? (c) Name any two diseases against which vaccination is done? (d) Define immunity.	4



OSDAV Public School, Kaithal

November Exam

SET-B

(2024-25)

Class :VIII

Subject :Science and Technology

Time: 1 hr 20 min.

M.M. : 30

General Instructions:- All questions are compulsory.

Q.No.	Questions	Marks
1	A disease in human beings caused by bacteria is _____. (a) Common cold (b) influenza (c) mumps (d) diphtheria	1
2	_____ is the ability of the human eye to continue to see the image of an object for a very short duration even after the object has disappeared from the view. (a) myopia (b) persistence of vision (c) power of accommodation (d) hypermetropia	1
3	Which of the following is a metal that is stored in kerosene. (a) Phosphorus (b) Sulphur (c) Sodium (d) Calcium	1
4	The number of cycles of vibrations in one second is called _____. (a) amplitude (b) frequency (c) periodic motion (d) oscillation	1
5	The frequency of ultrasonic sound is _____. (a) 100 Hz (b) less than 20 Hz (c) more than 20,000 Hz (d) more than 20 Hz	1
	For question number 6 ,two statements are given _one labeled Assertion(A) and the other labeled Reason(R).Select the correct answer to these questions from code(i),(ii),(iii) and(iv) as given below: (i) Both A and R are true and R is the correct explanation of A. (ii) Both A and R are true and R is not the correct explanation of A. (iii) A is true but R is false. (iv) A is false but R is true.	
6	Assertion (A) : A normal human eye can clearly see all the objects at a different distance. Reason (R):- The human eye has the capacity to suitably adjust the focal length of its eye lens to a certain extent.	1
7	(a)Write the preservation method of the following:- (i)Barley (ii) Fish (b) Name one fungus that cause food poisoning.	1+1=2
8	(a) A loud explosion were to take place at any point on the moon, it would not be heard even at nearby points. Why? (b) When is a given sound regarded as a noise?	1+1=2
9	What kind of lens is there in our eyes? Where does it form the image of an object.	2
10	Filling the blanks to complete the following paragraph. (a)The name of the product formed in the reaction of charcoal and (i)_____ is Carbon dioxide gas. When Carbon dioxide gas is dissolved in (ii) _____, Carbonic acid is formed. The Carbonic acid turns (iii) _____ Litmus to (iv) _____. Generally oxides of (v) _____ are acidic. (b)Name one non-metal that is used for making fire crackers and gun powder.	3
11	(a) Explain briefly the mechanism of production of sound in human beings. (b) Name two musical instruments which produce sound through vibrating membrane.	3

12	<p>Saloni is not able to put thread in a sewing needle in her hand but if she holds a needle at a distance of 30 cm , she can put thread in needle .</p> <p>(a) Name the defect from which Saloni is suffering from.</p> <p>(b) Write any one cause of this defect.</p> <p>(c) How can this defect can be corrected?</p>	3
13	<p>(a) Differentiate between metal and non-metal on the basis of the following:-</p> <p>(i) lustre (ii) malleability and ductility (iii) Sonority</p> <p>(b) Give reason for the following:-</p> <p>(i) Copper , aluminium and iron wires are used for electrical fitting, making net doors and wire meshes.</p> <p>(ii) Gold and Platinum are used for making jewellery.</p>	3+2=5
14	<p>Rahul's wife decides to take their daughter for her first round of vaccinations. However Rahul's mother does not like the idea of putting the child through the discomfort of injections. Rahul explains to his mother, in a polite and patient way that this slight discomfort and pain is necessary as it shall ensure that child lives a long and healthy life.</p> <p>Ques (a) What are vaccines?</p> <p>(b) Name any two diseases for which vaccination is done?</p> <p>(c) How does vaccination help in providing immunity?</p> <p>(d) Name any two examples of antibiotics.</p>	4

OSDAV PUBLIC SCHOOL, KAITHAL

November Exams (2024-25)

Class VIII

Science and Technology

Set—A

Marking Scheme / Hint to Solutions

Note: Any other relevant answer, not given here in but given by candidates, be suitably awarded.

Que No	Value Points / Key points	Total Marks 30
1.	(c) influenza	1
2.	(c) power of accommodation	1
3.	(c) Phosphorus	1
4.	(a) amplitude	1
5.	(b) 20-20,000 Hz	1
6.	(iii)A is true but R is false.	1
7	(a) (i) millets -drying (ii) nuts- vacuum packing (b) Clostridium/staphylococci	1+1=2
8	(a) because the moon does not have an atmosphere. (b) A musical sound (or music) is, thus,a sound which produces a pleasing feeling. It makes us feel happy and comfortable. It turns out that such sounds are produced by regular or periodic vibrations.	1+1=2
9	Convex lens,Retina	1+1=2
10	(a) (i) Oxygen (ii) water (iii) blue (iv) red (v) non- metals (b) Phosphorus	3
11.	(a) It is the voice box or the larynx of the human body system that helps us to produce sound. The voice box has two vocal cords stretched across it. They are stretched across the voice box in such a way that there is a narrow gap, or slit between them. Air can pass through this slit. The lungs force air through the Slit between the vocal cords and this make them vibrate and produce sound. (b)Guitar,Sitar	2+1=3
12.	(a) Myopia/ Near sightedness (b) Elongation of eyeball/ Excessive curvature of cornea/decrease in focal length (c) using concave lens of appropriate focal length	1+1+1=3
13.	(a)Melting and boiling points:- Metals generally have high melting as well as high boiling point. Non-Metals generally have low melting as well as low boiling points. Hardness:- Metals are quite hard (with exceptions of sodium and potassium) Non-metals are not hard (except diamond) Tensile strength:- Metals have high tensile strength. Non-metals do not have tensile strength(except Carbon fibre) (b)(i) Copper and iron are good conductors of heat. (ii Graphite is good conductor of electricity.	3+2=5

14	(a) Antibiotics are chemicals that inhibit the growth of (other) harmful microorganisms by affecting their life processes. (b) Vaccination produces immunity to a disease by stimulating the production of antibodies. (c) tuberculosis, polio, mumps,tetanus (d) Ability of an organism to resist an infection.	1+1+1+1= 4
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OSDAV PUBLIC SCHOOL, KAITHAL

November Exams (2024-25)

Class VIII

Science and Technology

Set—B

Marking Scheme / Hint to Solutions

Note: Any other relevant answer, not given here in but given by candidates, be suitably awarded.

Que No	Value Points / Key points	Total Marks 30
1.	(d) diphtheria	1
2.	(b) persistence of vision	1
3.	(c) Sodium	1
4	(b) frequency	1
5.	(c) more than 20000 Hz	1
6.	(i) Both A and R are true and R is the correct explanation of A.	1
7	(a)(i) Barley:- Drying (ii) Fish:- by using salt (b) Aspergillus	1+1=2
8	(a) because the moon does not have an atmosphere. (b) Unpleasant sounds are known as noise. It turns out that noises are due to sounds produced by irregular or non periodic vibrations.	1+1=2
9	Convex lens, Retina	1+1=2
10	(a) (i) Oxygen (ii) water (iii) blue (iv) red (v) non- metals (b) Sulphur	3
11.	(a) It is a voice box or the larynx of the human body system that helps us to produce sound. The voice box has two vocal cords stretched across it. They are stretched across the voice box in such a way that there is a narrow gap or slit between them. Air can pass through the slit. The lungs force the air through the slit between the vocal cords and this makes them vibrate and produce sound. (b) Drum, Dafli	2+1=3
12.	(a) Hypermetropia/ Farsightedness (b) Shortening of eyeball/ decrease in curvature of cornea/increase in focal length (c) using convex lens of appropriate focal length	1+1+1=3
13.	(a) lustre:- Metals possess a natural shine. Non-metals have a dull appearance. Malleability and ductility:- Metals are malleable and ductile. Non-metals are not malleable and ductile. Sonorosity:- Metals are sonorous. Non - metals are not sonorous.	3+2=5

	(b)(i) copper, aluminium and iron wires are used for Electrical fitting, making net doors and wire meshes because they show the property of ductility (ii) because they are highly ductile and malleable.	
14	(a) Vaccines are the suspensions of killed or weakened microorganisms. (b) Polio, mumps, tuberculosis, tetanus (c) Vaccination produces immunity by stimulating the production of antibodies. (d) streptomycin, tetracycline, Erythromycin, penicillin (any two)	1+1+1+1= 4