



O.S.DAV Public School, Kaithal
September Exam (2024-25)
Class : VIII
Subject : Science

SET- A

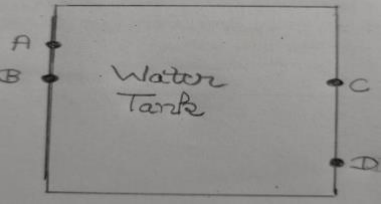
Time: 3 hr.

M.M. : 80

General Instructions:-

- 1) All the questions are compulsory.
- 2) Diagrams must be neat and clean .

Q.No.	Questions	Marks
	Section -A	
1	Identify the type of combustion that takes place in insufficient supply of air. a) Slow combustion. b) Rapid combustion c) Spontaneous combustion d) Explosive combustion	1
2	Which of these is a thermosetting plastic ? a) PVC b) Bakelite c) Terylene d) Polythene	1
3	A product that is obtained from the destructive distillation of coal used in the extraction of metal a) Coke b) Coal tar c) Asphalt d) Hydrocarbon	1
4	A car is moving towards North direction. In which direction will the force of friction act on the car? a) West b) East c) South d) North	1
5	Boundary of the cell that surrounds jelly like substance called protoplasm a) Organ b) Cell membrane c) Nuclear membrane d) Nucleus	1
6	Reproduction by multiple fission takes place in: a) Hydra b) Plasmodium c) Bacteria d) Yeast	1
7	Diabetes is caused if _____ hormone is not released in sufficient amount. a) Thyroxine b) Adrenaline c) Insulin d) Progesterone	1
8	The same force F acts on 4 different bodies. In which case will the pressure exerted be maximum? a) a body having area 20 m square b) a body having area 10 m square c) a body having area 20 cm square. d) a body having area 10 cm square	1
9	What is the name given to the type of friction existed between two surfaces when object is at rest. a) Static friction. b) Limiting friction. c) Rolling friction d) Sliding friction	1
10	Which of the following groups of organism has cell wall as the outer covering of cell? a) Plant, bacteria and human beings. b) Plant, bacteria and alga c) Plant, animal and bacteria d) Animal, bacteria and alga	1
11	Which of the following is a method of increasing friction? a) Air cushion b) Stream lined shapes c) Ball bearings in shafts of motor. d) Sand is rubbed by Kabaddi players in their hands.	1
12	Which cell organelle is known as the store house of the Cell? a) Mitochondria. b) Nucleus c) Golgi Complex d) Plastids	1
13	A water tank has four taps fixed at points A, B,C, D from which taps water will flow at the same pressure?	1

	 <p>a) A and B b) B and C c) C and D d) D and A</p>	
14	When is sperm having X chromosome fuses with the ovum, the child born will be a) male b) female c) male as well as female twin d) it depends on the chance of fusion	1
15	The male gamete or sperm is produced by a) Ovary b) Testis c) Oviduct d) Penis	1
16	Which zone of the flame contains unburnt wax vapours? a) Innermost zone b) outermost zone c) luminous zone d) Middle Zone	1
	<p>For question number 17-20, two statements are given. One labelled Assertion (A) and the other labelled Reason (R) select the correct answer to these questions from the code (a) ,(b) (c) and (d)</p> <p>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 false. d) A is false but R is true.</p>	
17	Assertion: Water can be used to control fire caused by electrical equipments or oil. Reason: Water is commonly used to control fire.	1
18	Assertion: Acne and pimples are common during adolescence Reason: This is due to the increased production of sebum from the sebaceous gland .	1
19	Assertion: Girls have high pitched voice , whereas boys have a deep voice. Reason: Because the voice is depend upon the growth of larynx.	1
20	Assertion: Thermosetting plastic can be remoulded again. Reason: They have cross – linked arrangement of molecules and does not get deformed on heating.	1
	Section -B	
21	‘Sports vehicles are designed to have a special shape.’ State the general name given to such bodies. How does this special shapes help the sport vehicles?	2
22	a) State one measure to control damage caused by plastic waste. b) Why should we not wear synthetic clothes in kitchen?	2
23	Starting from the cell, Name the other four levels of organisation in an organism in their correct order.	2
24	It is dark coloured, viscous and foul smelling liquid, often called liquid gold. identify this fossil fuel and also write the name of its product that is used in candles.	2
25	Enlist any two benefits of physical exercise that help adolescents to stay healthy.	2
26	Write any two differences between animal and plant cell.	2
	Section -C	
27	The calorific values of petrol and CNG are 45000 kj/kg and 50000 kj/kg respectively. Ram has a vehicle which can run on petrol as well as CNG . a) Which fuel should be used by Ram? b) Write two benefits of using that fuel.	3
28	Define metamorphosis. What changes are observed in frog during metamorphosis when it changes to adult frog.	3
29	Give reason a) Airplanes has pressurized cabins. b) It is easier for push an empty box rather than loaded one. c) Our body do not crush even in the presence of high atmospheric pressure.	3

30	Write the functions of the following parts of a cell: a) Nucleus b) Smooth Endoplasmic Reticulum c) Mitochondria	3
31	a) Explain the cause of friction. b) Give one example from your life when friction is useful.	3
32	Differentiate between thermoplastic and thermosetting plastics.	3
33	a) What happens to the empty paper cup when it is heated? b) What happens to the paper cup with water ? c) What will be the change in temperature of water?	3
Section -D		
34	a) Draw the well labelled diagram of female reproductive system. b) Write the function of the following parts of female reproductive system (1) Uterus 2) Oviduct	5
35	a) Express pressure in terms of thrust. b) The decrease in the pressure of a given force, through an increase in the surface area over which force acts, finds many application in our day to day life. List two such applications. c) Climbers who attempt to scale high range mountains need to carry oxygen cylinders with them. Why ?	5
36	a) Define Carbonisation. b) Name the product obtained from the destructive distillation of coal with one use each. c) Write the percentage of carbon present in lignite.	5
Section -E		
37	The legal age of marriage for girls is 18 years and that for boys is 21 years in our country. This is because, girls below the age of 18 years are not physically and mentally mature enough to handle the responsibilities of motherhood. Giving birth at a young age also affects the health of both the baby and the mother. Moreover, early motherhood often binds the young women to the home and prevents her from seeking further education. The role of the endocrine system in reaching the age of adolescence and attaining sexual maturity is very important. a) Define adolescence. b) Why Adam's Apple is seen in boys in front of the neck during puberty? c) What is the average age for the onset of puberty in boys ? d) Mention one secondary sexual character that appears in males	4
38	Cells are basic unit of life whose size is very small to be seen by our naked eye. Cell varies from nanometre to micrometre which requires a microscope to visualize. Hence they are called microscopic structures. It consists of many cell organelles which perform different functions . a) What is the other name of cell membrane? b) Plant cells are rigid. Give reason. c) Name the largest cell and also write its size d) Name the plastid present in fruits and provide their characteristic colour	4
39	Riya's father got a transfer to another place. While sorting out the things Riya found many of her clothes of various fabrics were not fitting her or worn-out. She thought of burning them to get rid of them. But her friend Shweta suggested to donate it to some charity house so that it can be reused. a) What are the two main types of fibres? b) Which fabrics are known to be skin friendly? Why? c) Why we should not burn synthetic clothes? d) Why synthetic clothes are famous than natural fabrics?	4

	a) A and B b) B and C c) C and D d) A and D	
14	When is sperm having Y chromosome fuses with the ovum, the child born will be a) male b) female c) male as well as female twin d) it depends on the chance of fusion	1
15	The male gamete or sperm consists of (a) three parts. b) two parts c) four parts d) none of these	1
16	Which zone of the flame is best for heating? a) Innermost zone b) outermost zone c) luminous zone d) Middle Zone	1
	For question number 17-20,two statements are given. One labelled Assertion (A)and the other labelled Reason (R) select the correct answer to these questions from the code (a) ,(b) (c)and (d) 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 false. d) A is false but R is true.	
17	Assertion: Water can be used to control fire caused by electrical equipments or oil. Reason: Water is commonly used to control fire.	1
18	Assertion: Acne and pimples are common during adolescence Reason: This is due to the increased production of sweat from the sweat gland .	1
19	Assertion: Girls have high pitched voice , whereas boys have a deep voice. Reason: Because the voice depend upon the growth of larynx.	1
20	Assertion: Thermosetting plastic cannot be remoulded again. Reason: They have cross – linked arrangement of molecules and does not get deformed on heating.	1
	Section -B	
21	‘Sports vehicles are designed to have a special shape.’ State the general name given to such bodies. How does this special shapes help the sport vehicles?	2
22	a) State any one damage caused by plastic waste. b) Why is Rayon known as regenerated fibre ?	2
23	Starting from the cell, Name the other four levels of organisation in an organism in their correct order.	2
24	It is dark coloured, viscous and foul smelling liquid, often called liquid gold. Identify this fossil fuel and also give one of its product and its use.	2
25	Enlist any two personal hygienic measures that help adolescence to stay healthy.	2
26	State any two effects that may be caused by a force.	2
	Section -C	
27	The calorific values of petrol and CNG are 45000 kj/kg and 50000 kj/kg respectively. Ram has a vehicle which can run on petrol as well as CNG . a) Which fuel should be used by Ram? b) Write two benefits of using that fuel.	3
28	Animals are classified into three types on the basis of the sites of their fertilization and development Write name of three reproductive pattern with one example of each.	3
29	Give reason a) Airplanes has pressurized cabins. b) Divers wear special type of suits while diving in water. c) Our body do not crush even in the presence of high atmospheric pressure.	3
30	Write the functions of the following parts of a cell: a) Cell Wall b)Rough Endoplasmic Reticulum c)Golgi Complex	3

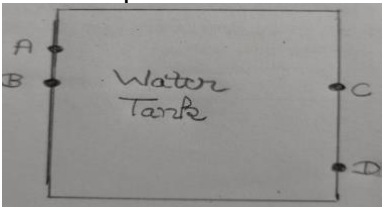
31	Give reasons for the following:- a) It is difficult to walk on a wet marble floor. b) It is easier to pull a luggage which is fitted with rollers. c) Soles of our shoes wear out gradually.	3
32	Differentiate between thermoplastic and thermosetting plastics.	3
33	a) What happens to the empty paper cup when it is heated? b) What happens to the paper cup with water ? c) What will be the change in temperature of water?	3
Section -D		
34	a) Draw the well labelled diagram of female reproductive system. b) Write the function of the following parts of male reproductive system (1) Testis (2) Penis	5
35	a) Express pressure in terms of thrust. b) The decrease in the pressure of a given force, through an increase in the surface area over which force acts, finds many application in our day to day life. List two such applications. c) Climbers who attempt to scale high range mountains need to carry oxygen cylinders with them. Why ?	5
36	a) Define refining of petroleum b) Name the product of petroleum which is (I) used in lantern (II) used in boilers (III) used for dry cleaning (IV) used to run generators	5
Section -E		
37	The legal age of marriage for girls is 18 years and that for boys is 21 years in our country. This is because, girls below the age of 18 years are not physically and mentally mature enough to handle the responsibilities of motherhood. Giving birth at a young age also affects the health of both the baby and the mother. Moreover, early motherhood often binds the young women to the home and prevents her from seeking further education. The role of the endocrine system in reaching the age of adolescence and attaining sexual maturity is very important. a) Define Puberty. b) Why Adam's Apple is seen in boys in front of the neck during puberty? c) What is the average age for the onset of puberty in girls ? d) Name the hormone released by Pancreas.	4
38	Cells are basic unit of life whose size is very small to be seen by our naked eye. Cell varies from nanometre to micrometre which requires a microscope to visualize. Hence they are called microscopic structures. It consists of many cell organelles which perform different functions . a) What is the other name of cell membrane? b) Plant cells are rigid. Give reason. c) Name the smallest cell and also write its size d) Cells have different shapes. Why?	4
39	Riya's father got a transfer to another place. While sorting out the things Riya found many of her clothes of various fabrics were not fitting her or worn-out. She thought of burning them to get rid of them. But her friend Shweta suggested to donate it to some charity house so that it can be reused. a) What are the two main types of fibres? b) Which fabrics are known to be skin friendly? Why? c) Why we should not burn synthetic clothes? d) Why synthetic clothes are famous than natural fabrics?	4



Time: 3 hr.

M.M. : 80

General Instructions:-

Q.No.	Questions	Marks
	Section -A	
1	Identify the type of combustion that take place in insufficient supply of air. a) Slow combustion. Ik	1
2	Which of these is a thermosetting plastic ? b) Bakelite	1
3	A product that is obtained from the destructive distillation of coal used in the extraction of metal a) Coke	1
4	A car is moving towards North direction. In which direction will the force of friction act on the car? c) South	1
5	Boundary of the cell that surrounds jelly like substance called protoplasm b) Cell membrane	1
6	Reproduction by multiple fission takes place in: b) Plasmodium	1
7	Diabetes is caused if _____ hormone is not released in sufficient amount. c) Insulin	1
8	The same force F acts on 4 different bodies. In which case will the pressure exerted be d) a body having area 10 cm square	1
9	What is the name given to the type of friction existed between two surfaces when object is at rest. a) Static friction.	1
10	Which of the following groups of organism has cell wall as the outer covering of cell b) Plant, bacteria and alga	1
11	Which of the following is a method of increasing friction? d) Sand is rubbed by Kabaddi players in their hands.	1
12	Which cell organelle is known as the store house of the Cell? c) Golgi Complex	1
13	A water tank has four taps fixed at points A, B,C, D from which taps water will flow at the same pressure?  a) B and C	1

14	When is sperm having X chromosome fuses with the ovum, the child born will be b) female	1
15	The male gamete or sperm is produced by b) Testis	1
16	Which zone of the flame contains unburnt wax vapours? a) Innermost zone	1
17	Assertion: Water can be used to control fire caused by electrical equipments or oil. Reason: Water is commonly used to control fire. Ans d	1
18	Assertion: Acne and pimples are common during adolescence Reason: This is due to the increased production of sebum from the sebaceous gland . Ans a	1
19	Assertion: Girls have high pitched voice , whereas boys have a deep voice. Reason: Because the voice is depend upon the growth of larynx. Ans a	1
20	Assertion: Thermosetting plastic can be remoulded again. Reason: They have cross – linked arrangement of molecules and does not get deformed on heating. Ans d	1
	Section -B	
21	Streamlined shape, to increase speed and to produce friction	2
22	a) Don't throw plastic here and there do not burn plastic use paper bags use four R principals reduce, reuse, recover b) Low melting point and burn to produce sticky beads	2
23	Tissue -organ -organ system -organism	2
24	Petroleum paraffin wax	2
25	Increases efficiency of lungs, blood circulation, reduce stress ,remove toxins from the body, proper digestion and growth of the body	2
26	Fixed shape, cell wall size of vacuole and the presence of plastids Any two	2
	Section -C	
27	The calorific values of petrol and CNG are 45000 kj/kg and 50000 kj/kg respectively. Ram has a vehicle which can run on petrol as well as CNG . a) CNG b) High calorific value ,cheaper ,no pollution	1+2
28	Radical change in the shape and structure of organism Legs, respiratory organs, size of intestine, presence of tail	1+2
29	Give reason a) To increase pressure and to save passengers b) Friction depends upon the weight of the object or force required depends upon the weight of object c) Internal pressure balance the outer atmospheric pressure	3
30	Write the functions of the following parts of a cell:	3

	a) Controls all the functions of cell b) synthesize fat c) produce energy by the process of cellular respiration	
31	Irregularities of surface Interlocking of two surfaces in contact due to irregularities of surfaces. Fiction is helpful in walking on the ground rolling holding the objects and in writing	3
32	Thermoplastic-linear arrangement can be remoulded ,can be deformed on heating with one example Thermosetting plastic-cross linked arrangement of molecules, cannot be remoulded again, can be deformed on heating with one example .	3
33	a) Will catch fire b) Not catch fire c) Temperature increases	3
Section -D		
34	a) refers to page no 257 with three labellings b) Write the function of the following parts of male reproductive system (1) Attachment development of embryo 2)provide site for fertilization	3+2
35	a) Thrust/Area b) Base of the building is made broad, two tyres in the truck, broad strips of bag wooden slippers under the railway track or any relevant answer a) Height of the air column decreases and decrease the air pressure.	1+2+2
36	a) formation of coal from dead plants b) Coke, coal tar ,coal gas with one use c) lignite.38%	1+3+1
Section -E		
37	The legal age of marriage for girls is 18 years and that for boys is 21 years in our country. This is because, girls below the age of 18 years are not physically and mentally mature enough to handle the responsibilities of motherhood. Giving birth at a young age also affects the health of both the baby and the mother. Moreover, early motherhood often binds the young women to the home and prevents her from seeking further education. The role of the endocrine system in reaching the age of adolescence and attaining sexual maturity is very important. a) transitional stage between childhood and adulthood b) larynx grow more in boys than the girls. c) 12 years d) pubic and facial hair	4
38	Cells are basic unit of life whose size is very small to be seen by our naked eye. Cell varies from nanometre to micrometre which requires a microscope to visualize. Hence they are called microscopic structures. It consist of many cell organelles which perform different functions . a) plasma membrane b) presence of cell wall c) ostrich egg, 170 mm in diameter d) chromoplast	4
39	Riya's father got a transfer to another place. While sorting out the things Riya found many of her clothes of various fabrics were not fitting her or worn-out. She thought	4

of burning them to get rid of them. But her friend Shweta suggested to donate it to some charity house so that it can be reused.

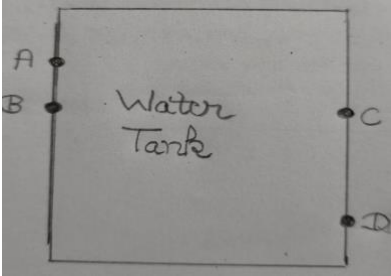
- a) natural fibre fibre and man made fibre.
- b) natural fibre, absorb sweat, less less irritation
- c) create pollution
- d) wrinkle free, lustrous, easy to clean ,easy to dry, moth resistant or any relevant point



O.S.DAV Public School, Kaithal
September Exam(2024-25)
Class : VIII

SET- B

Marking scheme
Subject : Science

Q.No.	Questions	Marks
	Section -A	
1	Identify the type of combustion that take place in sufficient supply of air b) Rapid combustion	1
2	Which of these is a thermoplastic ? a)PVC	1
3	A black sticky solid used to coat the underside of electric poles c) Asphalt	1
4	A car is moving towards East direction. In which direction will the force of friction act on the car? a)West	1
5	Nucleus is separated from cytoplasm by c) Nuclear membrane	1
6	Reproduction by binary fission takes place in: c) Bacteria	1
7	Goitre is caused if _____ hormone is not released in sufficient amount. a)Thyroxine	1
8	The same force F acts on 4 different bodies. In which case will the pressure exerted be minimum ? a)a body having area 20 m square	1
9	What is the name given to the type of friction existed between two surfaces when object just start sliding. . b) Limiting friction.	1
10	Which of the following groups of organism has cell wall as the outer covering of cell? c)Plant ,bacteria and alga	1
11	Which of the following is a method of increasing friction? d)Sand is rubbed by Kabaddi players in their hands	1
12	Which cell organelle is known as the power house of the Cell? a) Mitochondria	1
13	A water tank has four taps fixed at points A,B,C,D from which taps water will flow at the minimum and maximum pressure ? 	1
	d) A and D	

14	When is sperm having Y chromosome fuses with the ovum, the child born will be a) male	1
15	The male gamete or sperm consists of (a) three parts.	1
16	Which zone of the flame is best for heating? b)Outermost. zone	1
17	Assertion: Water can be used to control fire caused by electrical equipments or oil. Reason: Water is commonly used to control fire. (d)	1
18	Assertion: Acne and pimples are common during adolescence Reason: This is due to the increased production of sweat from the sweat gland . ©	1
19	Assertion: Girls have high pitched voice , whereas boys have a deep voice. Reason: Because the voice depend upon the growth of larynx. (a)	1
20	Assertion: Thermosetting plastic cannot be remoulded again. Reason: They have cross – linked arrangement of molecules and does not get deformed on heating. (a)	1
Section -B		
21	'streamlined shape to reduce friction and to increase the speed	1 1/2+1/ 2
22	a) Create pollution, harmful for stray animals, non biodegradable or any relevant answer b) Made from natural fibres wood cellulose	1+1
23	Tissue- organ -organ system -organism	½*4
24	petroleum any product and its use	1+1
25	Bathing, oral hygiene ,use of proper soap, grooming or any relevant answer	1+1
26	Can change shape ,size of the object Can start the moving object Can stop the moving object Can move the stop object Can change the direction and speed of object	1+1
Section -C		
27	The calorific values of petrol and CNG are 45000 kj/kg and 50000 kj/kg respectively. Ram has a vehicle which can run on petrol as well as CNG . a) CNG b) No pollution ,high calorific value, cheaper or any relevant answer	1+2
28	Internal fertilization internal development Internal fertilization external development External fertilization external development With one example each.	3
29	Give reason a) It increases pressure inside the aeroplane and save passenger b) For the safety purpose from high hydrostatic pressure c) Outer atmospheric pressure balance the internal air pressure	3
30		3

	a) Provide rigidity, fix shape and protection b,) synthesize Protein c) stores the material produced by cell or packaging and processing of materials	
31	Give reasons for the following:- a) Less friction less grip b) Rolling friction is less than sliding friction c) Friction cause wear and tear of objects	3
32	Thermoplastic-linear arrangement, can be remoulded, can be deformed on heating with one example Thermosetting plastic-cross linked arrangement of molecules cannot be remoulded again with one example each day Any three differences	3
33	Will catch fire Not catch fire Temperature increases	3
Section -D		
34	a) Refers to page number 257 with any three labelling b) Write the function of the following parts of male reproductive system (1) Produce sperm and hormone (2) passes urine and semen	1/5+1/ 5 2
35	a) Thrust/Area b) Base of the building is made broad, two tyres in the truck, broad strips of bag wooden slippers under the railway track or any relevant answer c) Height of the air column decreases and decrease the air pressure.	1+2+2
36	a) separating the components of petroleum b) Name the product of petroleum which is (I) Kerosene (II) fuel oil (III) petrol (IV) diesel	5
Section -E		
37	The legal age of marriage for girls is 18 years and that for boys is 21 years in our country. This is because, girls below the age of 18 years are not physically and mentally mature enough to handle the responsibilities of motherhood. Giving birth at a young age also affects the health of both the baby and the mother. Moreover, early motherhood often binds the young women to the home and prevents her from seeking further education. The role of the endocrine system in reaching the age of adolescence and attaining sexual maturity is very important. a) early stage of adolescent period b) Linux go more in boys and the girls c) 10 years d) insulin	4
38	Cells are basic unit of life whose size is very small to be seen by our naked eye. Cell varies from nanometre to micrometre which requires a microscope to visualize. Hence they are called microscopic structures. It consist of many cell organelles which perform different functions . a) plasma membrane b) due to cell wall c) approx 0.1 micron d) depends upon its location and function in the tissue	4
39	Riya's father got a transfer to another place. While sorting out the things Riya found many of her clothes of various fabrics were not fitting her or worn-out. She thought of burning them to get rid of them. But her friend Shweta suggested to donate it to	4

	<p>some charity house so that it can be reused.</p> <ul style="list-style-type: none">a) natural and man madeb) natural fibre, absorb sweat/less irritation.c) create pollutiond) easy to dry ,wrinkle free, fast colours lustrous, long duration or any relevant point	
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