



OSDAV Public School, Kaithal

July Test (2024)

Class :VIII

Subject : Science

Set-A

Time: 1 hr 20 min.

M.M. : 30

General Instructions:- All questions are compulsory.

Q.No.	Questions	Marks
1	Identify the product obtained from destructive distillation of coal, that is used for extraction of metals. (a)Coal tar (b)Coke (c)Coal Gas (d)Gasoline	1
2	Which material is used for making bottles and jars? (a)Polythene (b) PET (c)PVC (d)Bakelite	1
3	Energy resource, which gets replaced in a short period of time is _____. (a)Coal (b)Petroleum (c)Natural Gas (d)Hydropower	1
4	Burning of cow dung cakes and wood are examples of _____ combustion. (a)Rapid (b)Slow (c) spontaneous (d) explosive	1
5	The gas produced ,due to incomplete combustion of carbon fuels, is ____ (a) carbon dioxide (b) carbon monoxide (c) sulphur dioxide (d) nitrogen dioxide	1
6	For question number 6 two statements are given- one labeled Assertion(A) and the other labeled Reason (R).Select the correct answer to this question from the codes(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 but R is not the correct explanation of A. (iii)A is true but R is false. (iv) A is false but R is true. Assertion(A): A good fuel should have high calorific value. Reason(R): Coal has greater efficiency than LPG.	1
7	Give a reason for each of the following : (a) The flame of a burning candle goes off when we blow over it strongly.Give one reason. (b) Sand can be used to put off the fire produced by kerosene/ petrol.	2
8	Differentiate between Peat and Lignite on the basis of Carbon content present in them.	2
9	Write any two advantages of synthetic fibres.	2
10	Answers of following questions based on the Three Zones of the candle flame:- (a)Which zone is the coldest? (b) In which zone complete combustion takes place? (c) What is the colour of the middle zone?	3
11	Petroleum is a fossil fuel. It is dark coloured, viscous and foul smelling liquid . It is found in rock formation in the earth .Answer the following about petroleum. (a) What is refining of Petroleum? (b) Name the petroleum product that is used in boilers. (c) Petroleum is liquefied under pressure and is then known as _____.	3

12	Identify the fibre:- (a) That is used for making parachutes and ropes for rock climbing and fishing nets. (b) That is also called regenerated fibre. (c) Which appear to resemble wool.	3
13	<p>Synthetic fibres ,which account for about half of all fibre usage , are made from synthesized Polymers based on raw materials such as petroleum. The different types of fibres are produced from widely diverse chemical compounds.Each synthetic fibre has unique properties and characteristics that suit it for specific applications. Synthetic fibres and fabrics are used in broad variety of industries and sectors. Synthetic fibres are non biodegradable and affect the environment negatively. Fragmentation and withering of large synthetic fibres generate microplastic, which affect the ecosystem.</p> (a) Why is melamine a good choice for making kitchenware and uniforms for firemen? (b) Nylon is truly artificial (man made)fibre.Give reason. (c) Which fibre is used for making sails for boats and for making raincoats? (d) Write full form of PVC.	4
14	(a) Name any two varieties of coal. Why do various varieties of coal differ from each other? (b) State any two characteristics of an ideal fuel.	3+2=5



OSDAV Public School, Kaithal

July Test (2024)

Class :VIII.

Subject :Science

Set-B

Time: 1 hr 20 min.

M.M. : 30

General Instructions:-

I. All questions are compulsory.

Q.No.	Questions	Marks
1	Identify the product obtained from destructive distillation of coal, that is used in manufacture of photographic materials. (a)Coal tar (b)Coke (c)Coal Gas (d)Gasoline	1
2	Which material is used for making electrical switches and handles of cooking utensils ? (a)Polythene (b) PET (c)PVC (d)Bakelite	1
3	Energy resource, which after getting used up, cannot be replaced in a short period of time is _____. (a)Wind (b)Petroleum (c)Sun (d)Hydropower	1
4	When a combustible substance catches fire on its own ,even at room temperature its combustion is referred to as _____ combustion. (a)Rapid (b)Slow (c) spontaneous (d) explosive	1
5	The gas produced ,due to incomplete combustion of carbon fuels,is___ (a)carbon dioxide (b)carbon monoxide (c)sulphur dioxide (d)nitrogen dioxide	1
6	For question number 6 two statements are given- one labeled Assertion(A) and the other labeled Reason (R).Select the correct answer to this question from the codes(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 but R is not the correct explanation of A. (iii)A is true but R is false. (iv) A is false but R is true. Assertion(A):A good fuel should have high calorific value. Reason(R):Wood has greater efficiency than LPG.	1
7	Give a reason for each of the following : (a) White Phosphorus catches fire spontaneously. (b) Water is not used in controlling electrical fires.	2
8	Differentiate between Bituminous and Anthracite on the basis of Carbon content present in them.	2
9	Write any two disadvantages of synthetic fibres.	2
10	Answers of following questions based on the Three Zones of the candle flame:- (a)Which zone is the hottest? (b) In which zone partial complete combustion of wax vapours takes place? (c) What is the colour of the innermost zone?	3
11	Petroleum is a fossil fuel. It is a dark coloured viscous and foul - smelling liquid. It is found in rock formation in the earth .Answer the following about petroleum. (a) Why is Refining of Petroleum done? (b) Name the petroleum product that is used for dry cleaning of the clothes.	3

	(c) Natural Gas, when compressed and stored under pressure and is then known as _____.	
12	Identify the fibre:- (a) That is used for making tyre cords and surgical products. (b) that is also called wonder polymer. (c) Which is wrinkle and moth resistant.	3
13	Synthetic fibres, which account for about half of all fibre usage, are made from synthesized Polymers based on raw materials such as petroleum. The different types of fibres are produced from widely diverse chemical compounds. Each synthetic fibre has unique properties and characteristics that suit it for specific applications. Synthetic fibres and fabrics are used in broad variety of industries and sectors. Synthetic fibres are non biodegradable and affect the environment negatively. Fragmentation and withering of large synthetic fibres generate microplastic, which affect the ecosystem. (a) Why are clothes made from synthetic fibres uncomfortable in summer? (b) Rayon is sometimes also called Regenerated fibre. Give reason. (c) Which fibre is used for making conveyor belts and home furnishings? (d) Write a full form of PET.	4
14	(a) What is carbonisation? Why do various varieties of coal differ from each other? (b) Why are gaseous fuels considered better than liquid or solid fuels? (Write any two points).	3+2=5



OSDAV PUBLIC SCHOOL, KAITHAL

July 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.	(b) Coke	1
2.	(b) PET	1
3.	(d) Hydropower	1
4.	(b) Slow	1
5.	(b) Carbon monoxide	1
6.	(iii) A is true but R is false.	1
7.	(a) Air currents lowers the temperature of burning wax vapours below their ignition temperature./ Carbon dioxide, in our breath act as a fire extinguisher. (b) to cut off the supply of air.	1+1=2
8.	Peat-30% Carbon Lignite-38% Carbon	1+1=2
9.	They dry quickly./ they are easy to clean./ they last longer./ they have a long lasting lustre./they are less expensive than natural fibres.(write any two)	1+1=2
10.	(a) Innermost zone (b) outermost zone/ non luminous zone (c) yellow	1+1+1=3
11.	(a) The process of separating different components of Petroleum into their various useful forms is called Refining of Petroleum. (b) fuel oil (c) LPG (liquefied Petroleum gas)	1+1+1=3
12.	(a) Nylon (b) Rayon (c) Acrylon	1+1+1=3
13.	(a) Melamine resists fire and can tolerate heat better than other plastics. (b) because it does not use any natural fibre as its raw material. (c) Terylene (d) Poly Vinyl chloride	1+1+1+1=4
14.	(a) Peat, lignite, bituminous, anthracite (Write any two) These different types of coal differ from each other in terms of their content of volatile material and percentage of carbon, moisture and other elements present in them. (b) A good fuel should -: be cheap/ readily available and easy to transport./ be easy to store/ have a high calorific value./ not produce harmful gases after burning./ undergo complete and controllable combustion.(write any two)	1+2+2=5



OSDAV PUBLIC SCHOOL, KAITHA

July 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	T.marks
		30
1.	(a) Coal tar	1
2.	(d) Bakelite	1
3.	(b) Petroleum	1
4.	(c) Spontaneous	1
5.	(b)Carbonmonoxide	1
6.	(iii) A is true but R is false.	1
7.	(a) Ignition temperature of white phosphorus is 35°C. During summers, room temperature often rises to above 35° C. (b) It is because the electric current flows through water, thereby giving a severe electric shock which may Prove fatal.	1+1=2
8.	Bituminous-65% carbon Anthracite- 90% carbon	1+1=2
9.	1.They have very low melting point; they burn to form small sticking beads at high temperature. it is, therefore, not advisable to wear synthetic clothes while working in the kitchen 2. They do not absorb sweat.Clothes made from synthetic fibres are very uncomfortable in summer and rainy season. 3.Synthetic fibers are not biodegradable; hence cause a lot of pollution. (Write any two)	1+1=2
10.	(a)Outermost zone/ Non luminous zone (b) Middle Zone/ Luminous zone (c) black	1+1+1=3
11.	(a)Petroleum is a mixture of various materials which are separated from one another and are used for different purposes. (a) Petrol/ gasoline (c)CNG(Compressed Natural Gas)	1+1+1=3
12.	(a)Rayon (b)Nylon (c)Terylene	1+1+1=3
13.	(a) Unlike natural fibres they do not absorb sweat. (b) The raw material used in the preparation of rayon is wood cellulose which is a natural fibre . This natural fibre is processed to obtain Silk like fibre i.e Rayon. (c) terylene (d) PolyEthene Tetraphthalate	1+1+1+1 =4
14.	(a) The process of conversion of Dead plant materials into coal. Different types of coal differ from each other in terms of their content of volatile material and percentage of carbon, moisture and other elements present in them.	1+2+2=5

	<p>(b)1. Gaseous fuels are supplied in cylinders ,or through pipeline, Hence their transportation cost gets lowered. 2.Gaseous fuels release large amounts of energy ;they do not leave behind any ash or solid residue on combustion. 3.Gaseous fuels produce the least amount of harmful gases. 4.Gaseous fuels can be easily Ignited even with a small Spark.Their rate of combustion can also be controlled with the help of control valve.(Write any two)</p>	
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