



K.P.C PUBLIC SCHOOL, KHARGHAR
ASSESSMENT III - 2023-24

GRADE: VIII
SUBJECT: SCIENCE

MARKS :50
TIME: 2 HRS

General Instructions: This question paper comprises five sections A, B, C, D and E.
All questions are compulsory.

SECTION – A

(This section carries 1 mark each and comprises of :

A) Tick the correct answer

B) Fill in the blanks

C) True or false

A) Tick (✓) the correct answer:

(1 x 10=10)

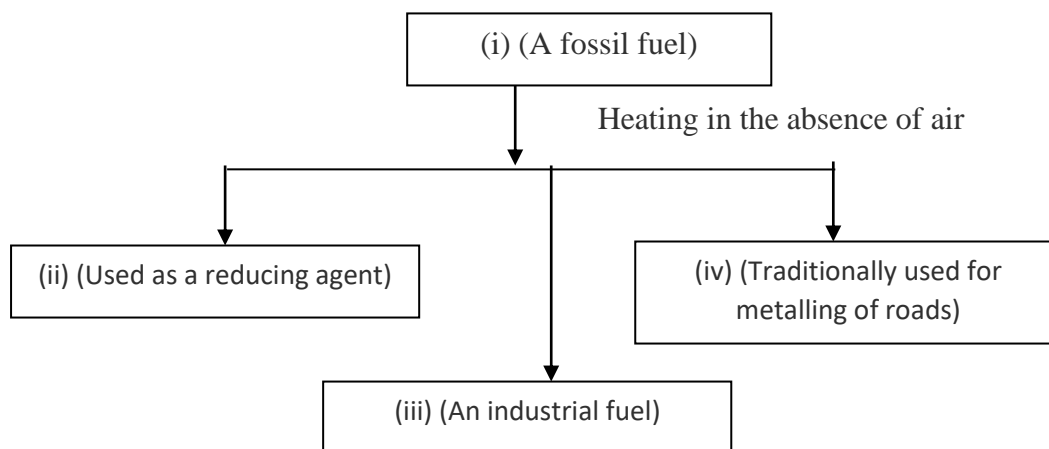
1. Adolescence is the period of

- (a) 5 to 10 years (b) 11 to 19 years (c) 22 to 28 years (d) 30 to 40 years

2. During puberty many changes occur in female and male body. An 18 year old boy gets irritated and angry very often. The doctor told him that hormonal imbalance is the reason. Which hormone imbalance is likely causing the problem?

- (a) Testosterone (b) Thyroxin (c) Adrenalin (d) Insulin

3. Study the given flow chart.



Identify (i), (ii), (iii) and (iv).

	(i)	(ii)	(iii)	(iv)
(a)	Crude oil	Diesel	Petrol	Kerosene
(b)	Coke	Coal	Coal gas	Charcoal
(c)	Coal	Coke	Coal gas	Coal tar
(d)	Coke	Wood charcoal	Lamp black	Gas carbon

4. Production of thyroxine requires

- (a) sodium (b) magnesium (c) iodine (d) bromine

5. Which of the following cannot be charged easily by friction?

- (a) A plastic scale (b) A copper rod (c) An inflated balloon (d) A woollen cloth.

6. Products obtained by the process of destructive distillation are

- (a) coke, coal-tar, coal gas (b) petrol, diesel, kerosene (c) paraffin wax, bitumen
(d) compressed natural gas

7. How many types of charges are obtained by rubbing objects?

- (a) 2 (b) 1 (c) 3 (d) 4

8. When a plastic comb is rubbed with dry hair, the hair get positively charged by friction. In this process:

- (a) the hair lose some protons
(b) the hair gain some protons
(c) the hair lose some electrons
(d) the hair gain some electrons

9. Assertion- endocrine glands called ductless glands.

Reason- they don't release hormones directly into the blood streams.

- (a) Assertion and reason both are correct statement and reason is correct explanation for assertion.
(b) Assertion and reason both are correct statement and reason is not correct explanation for assertion.
(c) Assertion is correct statement but reason is wrong statement.
(d) Assertion is wrong statement but reason is correct statement.

10. Which one of the following is a petrochemical?

- (a) Ammonia (b) Coke (c) Acetone (d) Paraffin wax

B] Fill in the blanks:

(1 x 7 = 7)

11. Pencil lead is made from _____.
12. Pituitary gland also called _____, secretes hormones like growth hormone .
13. Seismograph is the instrument that records _____.
14. The process of transfer of charges from a charged object to the earth is called _____.
15. Testosterone is the _____ hormone.
16. Process of separation of different constituents from petroleum is called _____.
17. It is important to eat _____ and maintain personal hygiene during adolescence.

C] True or False:

(1 x 7 = 7)

18. Good fuel must leave very little ash after burning.
19. 23 pair of chromosomes are found in nuclei of the cells.
20. Stoppage of menstruation is called adolescence.
21. It is possible to predict the occurrence of an earthquake.
22. Electroscope is a device used to test whether an object is carrying charge or not.
23. Fossil fuels are inexhaustible natural resources.
24. Mother is responsible for the sex determination of the baby.

SECTION - B

(This section comprises of Short Answer Type Question carrying 2 marks each.)

(2x 3 =6)

25. We should avoid taking medicines/drugs unless prescribed by a doctor. Give reasons.
26. What is static electricity?
27. What is the difference between Coke and Coal?

SECTION – C

(This section comprises of Short Answer Type Question carrying 3 marks each.)

(3 X 3 =9)

28. What are the causes of earthquake? Explain.
29. What are the different tips for the saving of petrol/diesel?
30. List the changes in the body that takes place at puberty.

SECTION – D

(This section comprises of Long Answer Type Question carrying 5 marks each.

(5 x 1 = 5)

31. Explain the following terms:

- (a) Adam's apple (b) Sex determination in the unborn baby.

(2 + 3)

(OR)

31.(a) What are the harmful effects of using fossil fuels?

(b) The following Table shows the total power shortage in India from 1991-1997. Show the data in the form of a graph. Plot shortage percentage for the years on the Y-axis and the year on the X-axis.

S. No.	Year	Shortage(%)
1	1991	7.9
2	1992	7.8
3	1993	8.3
4	1994	7.4
5	1995	7.1
6	1996	9.2
7	1997	11.5

SECTION – E

(This section comprises of case study based / data based questions carrying 1 marks each.) (1x6= 6)

32. Read the following passage and answer the questions:

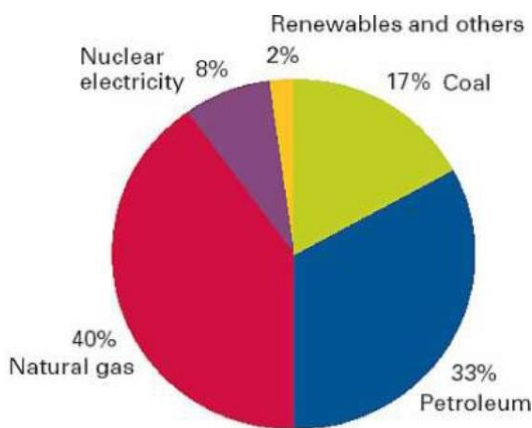
Lightning can be explained in terms of charges produced due to rubbing. During a thunderstorm, the air currents move upwards and the water droplets move downwards. And this caused due to the separation of charge due to this vigorous motion. As a result of this process, the positive charges collect near the upper edge and the negative charges accumulate near the lower edge of the cloud and also near the ground.

As the charge gets accumulated, its magnitude becomes very large. Water droplets in the air act as a conductor of this charge.

These charges flow to meet, thus producing strikes of lightning and thunder. For this phenomenon to occur, a sufficiently high electric potential between two regions and a high resistance medium must be present. Sometimes lightning may be seen before the thunder is heard and this is because the distance between the clouds and the surface is very long and the speed of light is much faster than the speed of sound and hence lightning can be seen before the thunder is heard. You must know that the lightning frequency is around 40-50 times a second on Earth.

- (i) Lightning is caused by- (1)
 - (a) The accumulation of magnetic forces in the clouds.
 - (b) The accumulation of gravitational forces in the clouds.
 - (c) The accumulation of charges in the clouds.
 - (d) Both a and b.
- (ii) Sometimes lightning may be seen before the thunder is heard and this is because _____ (1)
- (iii) The lightning frequency is around _____ a second on Earth. (1)

33. This is a pie chart about energy sources in country X in the year 2015. Examine it and answer the questions given below:



- i) What percentage of fossil fuels did the Country X consume that year? (1)
- ii) Do you find that renewable sources played an important role in the country? Why? (1)
- iii) Which fossil fuel used by country X is a clean fuel? (1)
