

**FUELS AND CALORIFIC VALUE**

**This page contains CCE model questions – Concept wise.**

**Now we know the formation of different varieties of questions from Fuels and Calorific Value .**

1. What is called a fuel ?
2. Name any four fuels which we use in our daily life.
3. A substance that produces heat and light on burning is called fuel. Give any four examples for fuels.
4. Give any four examples for Fossil fuels.
5. Give any four examples for Solid fuels.
6. Give any four examples for Liquid fuels.
7. Give any four examples for Gaseous fuels.
8. Classify the following as Solid, Liquid and Gaseous fuels.  
Coal            Char coal            CNG            Petrol  
LPG            Kerosene            Bio gas            Diesel
9. Name some fuels (any four) which we can use for Domestic purpose.
10. Name some fuels (any four) which we can use in Vehicles.
11. Name some fuels (any four) which we can use in Automobile field.
12. What is the criteria to decide a best fuel ?
13. What are the characteristics of a Best fuel ?
14. Select the best fuel among the following. Write a note to support your answer.  
Coal            Petrol            CNG \*            Cow dung
15. Gaseous fuels are better than Solid fuels. Explain.
16. Gaseous fuels are better than liquid fuels. Guess the reasons.
17. Why LPG is better than Kerosene for Domestic use of cooking.
18. What do you understand about Calorific value ?
19. What are the units used to measure Heat ?
20. What are the units of Calorific value ?
21. Give one example for best fuel. Write a brief note to justify your answer.
22. In a few years the fuels on earth will be exhausted. Think, what would happen to human civilization ?
23. Use of more fuels in our daily life causes more air pollution and it is harmful to human beings and the other life on the Earth. Suggest some remedies to avoid this.
24. How do you organize your daily works with fuels to conserve bio-diversity ?
25. How do you feel about “Fuels have become a part of human life.” ?
26. Calorific value of Petrol is 45000 KJ/Kg. What does it mean ?
27. Write any four characteristics of a good fuel.
28. In an experiment 20 Kg of a fuel produces 100000 KJ of heat energy. Calculate the Calorific value of that fuel.
29. What are the drawbacks of using solid fuels ?
30. Name any two fuels that are used in Industries.
31. What are the effects of on the environment due to burning of fuels ?

32. The calorific values of some fuels are given below.

Sl. No.	Fuel	Calorific value (in KJ/Kg)
1	Wood	17000 - 22000
2	Petrol	45000
3	Diesel	45000
4	LPG	55000
5	CNG	50000

Answer the following questions.

- Which is the best fuel among the given fuels ?
- How much heat energy liberates when 1 Kg of Diesel is burnt ?
- To get 90000 KJ of Heat energy, How much Petrol should be burnt ?
- Which of the above fuels have same calorific value ?

33. The calorific values of some fuels are given below.

Sl. No.	Fuel	Calorific value (in KJ/Kg)
1	Cow dung	6000 - 8000
2	Wood	17000 - 22000
3	Petrol	45000
4	Diesel	45000
5	LPG	55000
6	CNG	50000
7	Bio gas	35000 - 40000
8	Hydrogen	150000

Answer the following questions.

- Which is the best fuel among the given fuels ?
- Which causes air pollution ?
- Which produce only water on burning ?
- Name the liquid fuels from the list.

34. The calorific values of some fuels are given below.

Sl. No.	Fuel	Calorific value (in KJ/Kg)
1	Petrol	45000
2	Diesel	45000
3	LPG	55000
4	CNG	50000
5	Hydrogen	150000

Answer the following questions.

- How much Heat is released when 500 grams of LPG burnt ?
- Which causes air more pollution ?
- LPG and CNG are better than Petrol and Diesel. Why ?
- Which of the above fuels are not fossil fuels ?

35. CNG stands for

- Compressed Natural Gas
- Compressed Nitrogen Gas
- Complete Natural Gas
- Collected Natural Gas

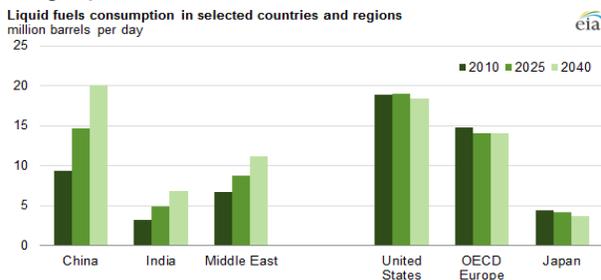
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36. The amount of heat energy released when 1 Kg of fuel burnt

- Ignition Point
- Ignition Temperature
- Power of Fuel
- Calorific Value

[     ]

37. Observe the given graph.



Answer the following questions.

- (i) Which country will consume more fuel in 2040 ?
- (ii) Which country used less amount of fuel in 2010 ?
- (iii) Write a note about the fuel consumption in India ?
- (iv) What happened if the fuel consumption is going in this ratio ?

38. Observe the following table.

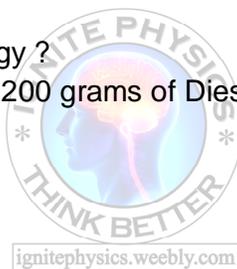
Fuel	Calorific value	Fuel	Calorific value
Petrol	45000 KJ/Kg	LPG	55000 KJ/Kg
Diesel	45000 KJ/Kg	Biogas	35000 - 40000 KJ/Kg
CNG	50000 KJ/Kg	Hydrogen	150000 KJ/Kg

Answer the following questions.

- (i) Which fuel is best to produce energy ?
- (ii) How much energy released when 200 grams of Diesel burnt ?

39. Materials :

- i) Coal
- ii) Petroleum
- iii) Diesel
- iv) Kerosene



Which of the above are not Liquid fuels ?

- A) (i) only
- B) (i), (ii) and (iii)
- C) (ii), (iii) and (iv)
- D) (i) and (ii)

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40. Assertion (P) : Hydrogen is a good fuel.

Reason (R) : Hydrogen is pollution free and Has high calorific value.

Then identify the correct one :

- A) P is true and R is true. R is not the correct explanation for P
- B) P is true and R is true. R is the correct explanation for P
- C) P is false and R is true. R is the correct explanation for P
- D) P is true and R is false.

[     ]

41. Observe the following statements :

- (i) Solid fuels undergo incomplete combustion.
- (ii) Gaseous fuels undergo complete combustion.

Then identify the correct choice .

- A) (i) and (ii) both are true
- B) (i) and (ii) both are false
- C) (i) is true and (ii) is false
- D) (i) is false and (ii) is true

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42. Bindu said, "A best fuel for cooking may not be a best fuel for running an automobile."

– What is your opinion ?

43. Match the following.

Set-I

- (i) Solid fuel
- (ii) Liquid fuel
- (iii) Gaseous fuel

Set-II

- (a) Spirit
- (b) CNG
- (c) Coke

Choose the correct answer :

[     ]

A) (i)-a, (ii)-b, (iii)-c

B) (i)-c, (ii)-b, (iii)-a

C) (i)-a, (ii)-c, (iii)-b

D) (i)-c, (ii)-a, (iii)-b

44. Expand the following.

- (i) CNG
- (ii) LPG

45. How can you decide a best fuel ? What measures do you consider ?

46. Complete the following table.

Name of the fuel	Can be used for Domestic needs (Yes / No)	Can be used for Vehicles (Yes / No)	Can be used in Industries (Yes / No)
Petrol			
Kerosene			
LPG			
CNG			

47. This is not the property of a good fuel.

[     ]

A) High calorific value

B) Fuel efficiency

C) Hard to ignite

D) Safe to handle and store

48. What do you understand about calorific value ? Explain with an example.

49. Calorific value of Diesel is 45000 KJ/Kg. Calculate, how much heat energy liberates on burning of 2 Kg Diesel.

50. Match the following.

Set-I

- (i) Less pollutant
- (ii) Incomplete combustion
- (iii) Pollution free

Set-II

- (a) Coal
- (b) Hydrogen
- (c) CNG

Choose the correct answer :

[     ]

A) (i)-a, (ii)-b, (iii)-c

B) (i)-c, (ii)-b, (iii)-a

C) (i)-a, (ii)-c, (iii)-b

D) (i)-c, (ii)-a, (iii)-b

**Academic standards were not indicated.**

**This is to create awareness among children.**

**If they learn conceptually, they can easily write answers to any question.**

**If any one prepared this type of list, please send them to me.**

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