



# CHEMISTRY

## BOOKS - MTG IIT JEE FOUNDATION

### FOOTSTEPS TOWARDS (NEET)

#### Multiple Choice Question

1. The synthetic material which can be used for making fabrics as well as shatterproof bottles and jars is

A. nylon

B. rayon

C. polyester

D. acrylic.

**Answer: C**



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2. Which of the following is not obtained as a fraction during the refining of petroleum ?

A. Kerosene

B. Natural gas

C. Lubricating oil

D. Bitumen

**Answer: B**



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**3.** The least reactive metal among the following is

A. magnesium

B. lead

C. silver

D. sodium.

**Answer: C**



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**4. Match column I with column II and select the correct option.**

	Column I		Column II
P.	Rusting of iron	(i)	Spontaneous combustion
Q.	Exposure of sodium to open air	(ii)	Slow combustion
R.	Burning of paper dipped in kerosene	(iii)	Explosion
S.	Burning of crackers	(iv)	Rapid combustion

A. P-(iii), Q-(iv), R-(ii), S-(i)

B. P-(ii), Q-(i), R-(iv), S-(iii)

C. P-(iv), Q-(iii), R-(ii), S-(i)

D. P-(iv), Q-(iii), R-(i), S-(ii)

**Answer: B**



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5. Which of the following elements is a metalloid?

A. Sodium

B. Sulphur

C. Silicon

D. Silver

**Answer: C**



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6. Black shoe polish has an oily feel because

A. it is a mixture of oil and charcoal powder

B. it is a solution of gas carbon and oil

C. it contains liquefied vapours of hydrocarbons

D. it produces oily substances when it comes in contact with air.

**Answer: C**



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7. X is a thermoplastic polymer of polyester family. It can be recycled, less gas permeable and produces  $CO_2$  and  $H_2O$  on complete combustion. Identify X.

A. Nylon

B. PET

C. HDPE

D. LDPE

**Answer: B**



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8. The lowest temperature at which a substance catches fire and starts burning is called

A. rusting

B. ignition temperature

C. calorific value

D. all of these.

**Answer: B**



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9. Which one of the following metals is the most ductile?

A. Aluminium

B. Copper

C. Silver

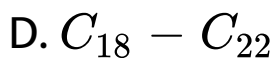
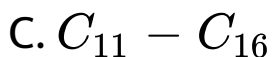
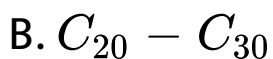
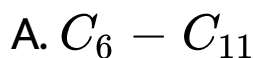
D. Gold

**Answer: D**



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10. The number of carbon atoms in kerosene oil is



**Answer: C**



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11. Teflon is a polymer of which of the following monomer?

A. Monofluoroethene

B. Tetrafluoroethene

C. Difluoroethene

D. Trifluoroethene

**Answer: B**



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12. While cooking, if the bottom of the vessel is getting blackened on the outside, it means that

- A. the food is not cooked completely
- B. the fuel is not burning completely
- C. the fuel is wet
- D. the fuel is burning completely.

**Answer: B**



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13. Which of the following is not a characteristic property of iron?

A. Malleability

B. Brittleness

C. Ductility

D. Sonorousness

**Answer: B**



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**14.** Coal is a

A. fossil fuel

B. nuclear fuel

C. bio fuel

D. none of these.

**Answer: A**



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**15.** Which of the following are thermoplastic polymers?

(i) Polyvinyl chloride

(ii) Bakelite

(iii) Teflon

(iv) Melamine

A. (i) and (ii)

B. (i) and (iv)

C. (i) and (iii)

D. All of these



**Answer: C**



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**16.** The outermost zone of a candle flame is the  
:

- A. least hot part
- B. coldest part
- C. hottest part
- D. moderately hot part.

**Answer: C**



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17. An element is soft and can be cut with a knife. It is very reactive and cannot be kept open in the air. It reacts vigorously with water.

The element is most likely to be :

A. magnesium

B. potassium

C. phosphorus

D. aluminium.

**Answer: B**



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**18.** Which of the following is being used as source of hydrogen gas needed to manufacture fertilisers ?

A. Biogas

B. Natural gas

C. Coal gas

D. Petroleum gas

**Answer: B**



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**19.** Match column I with column II and select the correct option.

	Column I		Column II
(i)	Polyster	A.	Prepared by using wood pulp
(ii)	Teflon	B.	Used for making parachutes
(iii)	Rayon	C.	Used to make non-stick cookware
(iv)	Nylon	D.	Fabrics do not wrinkle easily

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

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

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

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

**Answer: A**



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**20.** On a cold winter night, the persons sleeping in a room with closed door and

windows with a coal fire burning inside may die due to the excessive accumulation of :

- A. nitrogen monoxide
- B. nitrogen dioxide
- C. carbon dioxide
- D. carbon monoxide.

**Answer: D**



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21. Which of the following metals will not liberate hydrogen when kept in  $HCl$  solution?

A. Hg

B. Ag

C. Cu

D. All of these

**Answer: D**



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22. Which of the following substances is added to LPG to give it a peculiar smell?

- A. Ethyl alcohol
- B. Tetraethyl lead
- C. Ethyl mercaptan
- D. Mustard oil

**Answer: C**



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23. Which of the following represents the common property of artificial silk and cotton?

I. Both are biodegradable.

II. Both are polyesters.

III. Both have cellulose as the monomer.

IV. Both are crease resistant.

A. I and II only

B. III only

C. I and IV only

D. None of these

**Answer: B**



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**24.** Complete combustion of most of the fuels produces \_\_\_\_ which is responsible for \_\_\_\_ .

(i) and (ii) are respectively

- A. oxygen and respiration
- B. carbon and photosynthesis
- C. carbon monoxide and pollution
- D. carbon dioxide and global warming.

**Answer: D**



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**25.** Sulphur element is said to be

A. ductile

B. hard

C. malleable

D. brittle.

**Answer: D**



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26. Which one of the following is not an exhaustible source of energy?

- A. Natural gas
- B. Petroleum gas
- C. Coal gas
- D. Biogas

**Answer: D**



27. Rayon or artificial silk is obtained from

- A. cocoon
- B. petroleum
- C. silk fibre
- D. wood pulp.

**Answer: D**



28. Inflammable substances have an ignition temperature:

A. more than  $100^{\circ}C$

B. less than  $100^{\circ}C$

C. more than  $200^{\circ}C$

D. between  $200^{\circ}C$  to  $350^{\circ}C$ .

**Answer: B**



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29. Type of flame produced by a fuel depends upon

A. calorific value

B. amount of oxygen

C. type of fuel and its chemical composition

D. all of the above.

**Answer: B**



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**30.** Natural gas mainly consists of

A. ethane

B. methane

C. propane

D. butane

**Answer: B**



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**31.** Terrycot is a blended fibre. It is obtained by mixing

- A. cotton and wool
- B. silk and cotton
- C. cotton and terylene
- D. terrywool and cotton.

**Answer: C**



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32. While making the heating element in electrical equipments, which of the following properties is considered?

A. Poor electrical conductivity

B. Low density

C. High melting point

D. Low tensile strength

**Answer: C**



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**33.** When you visit a hill station, which of the following you should use for shopping?

- A. Bags made up of cotton
- B. Bags made up of polyethene
- C. Bags made up of paper
- D. Bags made up of nylon

**Answer: A**



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**34.** Fly ash is produced by

A. petroleum

B. natural gas

C. coal

D. all of the above.

**Answer: C**



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**35.** Which of the following statement is not true?

A. Flame is a zone of combustion of gaseous substances accompanied by heat and light.

B. Type of flame depends upon the amount of oxygen available.

C. Innermost zone of a flame is the hottest part of zone.

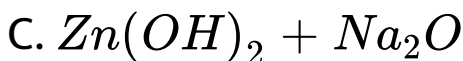
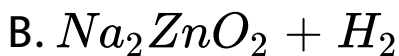
D. Blue zone indicates complete combustion of fuel.

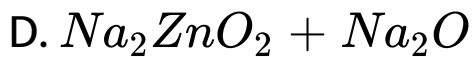
**Answer: C**



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**36.** Complete the reaction :  $Zn + 2NaOH \rightarrow$





**Answer: B**



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**37.** When water is poured over burning wood, the fire goes off. This is because

A. temperature of wood decreases

B. temperature of water goes up

C. molecules of water reacts with oxygen

present in the flame

D. the flame vapourises.

**Answer: A**



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**38.** The major component of LPG is :

A. hydrogen

B. carbon monoxide



C. methane

D. butane.

**Answer: D**



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**39.** Which of the following materials take the longest time to decompose?

A. Paper

B. Cotton clothes

C. Plastic bags

D. Leather shoes

**Answer: C**



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**40.** Which of the following is correct for the reaction?



A. React vigorously

B. No reaction

C. React moderately

D. React slowly

**Answer: B**



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**41.** Which of the following metals form amphoteric oxide?

A. Copper

B. Silver

C. Aluminium

D. Iron

**Answer: C**



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**42.** Polyethene is produced by

A. isomerisation

B. polymerisation

C. hydrogenation

D. all of these

**Answer: B**



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**43.** A family consumes 12 kg of LPG in 30 days.

The average energy consumed per day if the

calorific value of LPG is 50 kJ/kg is

A. 10,000 J/day

B. 15,000 J/day

C. 20,000 J/day

D. 25,000 J/day.

**Answer: C**



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**44.** Plants store solar energy in the form of

A. electrical energy

B. thermal energy

C. chemical energy

D. bio energy.

**Answer: C**



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**45.** The poorest conductor of heat is

A. aluminium

B. silver

C. gold

D. lead.

**Answer: D**



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