



CHEMISTRY

BOOKS - HT Olympiad Previous Year Paper

NSO QUESTION PAPER 2019-20 SET B



1. A few materials are listed in the given box.

(i)	Cotton	(ii)	Polythene
(iii)	Bakelite	(iv)	Jute
(v)	Terylene	(vi)	Melamine

Select the incorrect statement regarding these materials.

A. Materials (i) and (iv) are derived from

natural sources and are completely

biodegradable.

B. Materials (ii) and (v) contain linear

polymer chains and become soft on

heating.

C. Materials (iii) and (vi) have polymer

chains with crosslinks which help them

to change shape on heating.

D. None of these

Answer: C

2. A group of class 8 students categorised a

few elements as shown in the table.

	Characteristic	к	Zn	С	Fe	Cu	Р
a.	Metal	~	~	×	1	~	×
b.	Hardness	×	~	×	1	~	~
c.	Malleability	×	~	×	×	~	~
d.	Ductility	×	×	1	1	~	×
e.	Conductor of electricity	×	~	~	1	~	~

Which characteristic(s) is/are correctly

matched for all the elements?

A. a and e only

B. a, b and e only

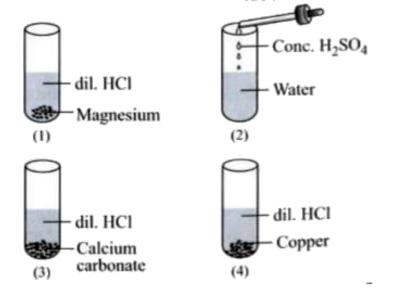
C. b, c and d only

D. a only

Answer: D

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3. Observe the given figures showing the mixing of chemicals in four different test tubes.



Which of the following statements is/are correct?

I. H_2 gas is evolved in test tube (I).

II. Test tube (2) will burst as a large amount of

heat is evolved.

III. No reaction takes place in test tube 3.

IV. In test tube 4, yellowish-green chlorine gas

is evolved.

A. II and IV only

B. I only

C. II and III only

D. I and IV only

Answer: B

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4. Statement 1 : Coal, charcoal and cow dung

cakes are inflammable substances.

Statement 2 : Inflammable substances have high ignition temperature.

A. Both statements 1 and 2 are true and statement 2 is the correct explanation of statement 1.

B. Both statements 1 and 2 are true but

statement 2 is not the correct

explanation of statement 1.

C. Statement 1 is true and statement 2 is

false.

D. Both statements 1 and 2 are false.

Answer: D

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5. A brief information about substances X, Y and Z is given here.

X: A gaseous fuel obtained by the strong heating of coal in the absence of air.Y: A thick black liquid having an unpleasant smell obtained by heating coal in the absence

of air.

Z: A tough and porous black solid prepared by

heating coal in the absence of air.

Which of the following statements is incorrect about X, Y and Z?

A. X is a mixture of methane, hydrogen,carbon monoxide and some other gases.B. Y is a mixture of about 200 substanceswhich can be separated by simple distillation.

C. Z contains almost 98 percent carbon.

D. Nowadays X is used as a source of heat

while earlier it was used for lighting

purposes.

Answer: B

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6. An unknown metal X when placed in copper sulphate solution, red brown pieces of copper fall to the bottom of the test tube. When metal X is placed in aluminium sulphate solution, no change is observed. Metal X can

be

A. Sodium

B. Potassium

C. Iron

D. Calcium

Answer: C

7. Consider the following statements :

I. Washing soda is an acidic salt whereas baking soda is a basic salt.

II. Tamarind juice docs not change the colour of red litmus solution.

III. Slaked lime neutralises the acidic nature of the soil.

IV. Milk of magnesia is acidic in nature.

The correct statements are

A. I, II and IV only

B. II, III and IV only

C. I, III and IV only

D. II and III only.

Answer: D



8. Observe the given process and select the

correct option.

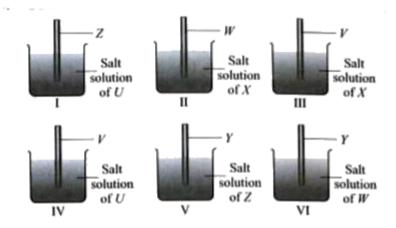


A. The given process becomes faster when							
humidity is high in the atmosphere.							
B. The	process	repres	sents	а	revers	ible	
chemical change.							
C. The	change	can	be	rev	rersed	by	
galvanisation.							
D. None of these							

Answer: A

1. Observe the following experimental set-ups

carefully.



If no reaction occurs in beakers II, IV and V, then which of the following statements is correct? A.X is less reactive than U but more

reactive than Z.

B. W and X are more reactive than V.

C. Z and W are less reactive than Y.

D.V is more reactive than W but less

reactive than U.

Answer: D