



CHEMISTRY

BOOKS - ARIHANT PUBLICATION JHARKHAND

SOLVED PAPER 2018

Section II Chemistry

1. Kurkure packet's empty space is filled with an inert gas, in order to prevent it from

A. reduction

B. oxidation

C. oxidation-reduction

D. precipitation

Answer: B



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2. Transparent photographic films gradually change their colour when exposed to light due to.

A. combination reaction

B. thermal decomposition

C. oxidation reaction

D. displacement reaction

Answer: B



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3. Aluminium when exposed to O_2 atmosphere, formation of Al_2O_3 , is observed. It is.

A. corrosion

B. rusting

C. decomposition

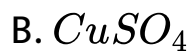
D. rancidity

Answer: A



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4. When blue coloured $CuSO_4$, crystals is heated, it gives a white amorphous solid. This white solid is



Answer: B



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5. Colour of phenolphthalein in acidic medium

A. pink

B. yellow

C. colour less

D. orange

Answer: C



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6. Second highest electronegative element in periodic table

A. fluorine

B. chlorine

C. oxygen

D. nitrogen

Answer: C



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7. The element with half-filled outermost electronic configuration

A. aluminium

B. magnesium

C. boron

D. nitrogen

Answer: D



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8. The order of effective nuclear charge is

A. $LI < Na < K < Rb$

B. $LI > Na > K > Rb$

C. $LI < K < Na < Rb$

D. $LI < Rb < K < Na$

Answer: B



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9. Triad among the following is

A. H, F, Cl

B. F, Cl, Br

C. Be, Mg, Ca

D. Ca, Sr, Ba

Answer: C



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10. KOH is stronger base than LiOH. The reason is

- A. Li is highly reactive
- B. atomic size of Li is less
- C. K is highly reactive
- D. atomic size of K is more

Answer: C

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11. Hydrolysis of an ester in presence of alkali is called

- A. esterification

B. saponification

C. substitution

D. addition

Answer: B



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12. Vegetable oils usually contain

A. unsaturated fatty acids

B. carboxylic acids

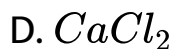
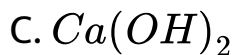
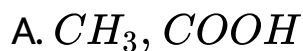
C. saturated fatty acids

D. glacial acetic acid

Answer: A

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13. Hard water forms scum with soap, due to the presence of



Answer: D

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14. Hydrophobic end of micelle is soluble in hydrocarbon because it is

A. non-polar

B. polar

C. ionic

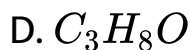
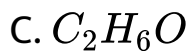
D. covalent

Answer: A



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15. Compound which does not belong to the homologous series



Answer: B



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16. Colour of Taj Mahal in Agra is changed due to

A. sunlight

B. acid rain

C. slaked lime

D. corrosion

Answer: B



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17. Antacids are used to remove

A. body pain

B. acidity

C. basicity

D. headache

Answer: B

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18. Chemical compound present in tooth paste is.

A. basic- $Ca_3(PO_4)_2$

B. acidic- $Ca_3(PO_4)$

C. basic-Ca (HCO_3)₂

D. salt- Ca_3P_2

Answer: A



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19. pH of orange juice is

A. 2.00-2.35

B. 3.12-3.33

C. 3.00-3.75

D. 3.3-4.19

Answer: B



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20. Acid which helps for the digestion is

- A. amino acid
- B. hydrochloric acid
- C. acetic acid
- D. citric acid

Answer: C



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21. Allotrope of carbon which posses high melting point?

- A. Graphite
- B. Fullerene

C. Coke

D. Diamond

Answer: D



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22. The compound gives a sooty flame on burning .

A. CH_4

B. C_3H_3

C. C_2H_6

D. C_2H_4

Answer: D



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23. Addition of hydrogen to alkene in presence of nickel catalyst is

- A. reduction
- B. oxidation
- C. addition and elimination
- D. substitution

Answer: C



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24. A compound 'A' with formula C_3H_8O possess two structural isomers. On oxidation it produces an acid.

Compound A is

- A. 1-propanal
- B. 2-propanone
- C. 1-propanol
- D. 2-propanal

Answer: C



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25. Poisonous organic compound present in denatured rectified spirit is

- A. ethyl alcohol
- B. methyl alcohol
- C. ethanoic acid
- D. formic acid

Answer: A



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26. Method used to prevent the corrosion of aluminium.

A. galvanisation

B. anodising

C. tanning

D. cathodic protection

Answer: B



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27. Metal 'A' reacts with dil. HNO_3 and liberates hydrogen. A is

A. Mg

B. Ag

C. Cu

D. Au

Answer: A



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28. The metal which is highly reactive

A. Hg

B. Zn

C. Pb

D. Al

Answer: D



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29. Among the following the polar compound is .

A. kerosene

B. alcohol

C. benzene

D. gasoline

Answer: B



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30. Metals can be extracted easily and economically from.

A. mineral

B. metallic compound

C. ore

D. rock

Answer: C



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31. The process of formation of covalent bonds with other atoms to form long chains is called

A. addition

B. coordination

C. catenation

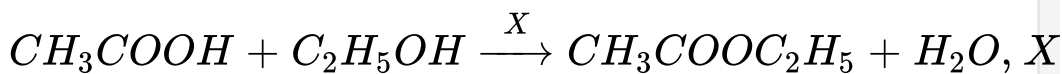
D. polymerisation

Answer: C

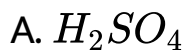


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32.



is



Answer: A



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33. Modern periodic table is based on

- A. atomic mass
- B. mass number
- C. atomic number
- D. electronic configuration

Answer: C



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34. In Mendeleev's periodic table elements with atomic numbers 18, 35 belongs to which group?

A. Group zero, I

B. Group zero, III

C. Group zero,

D. Group zero, VII

Answer: D



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35. The element which is electropositive in nature?

A. Sulphur

B. Silicon

C. Boron

D. Copper

Answer: C



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36. Burning of Mg in air is.

A. physical change

B. chemical change

C. sublimation

D. oxidation-reduction

Answer: B



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37. Reaction of marble with atmospheric humidity and CO_2 to form slaked lime is an example for .

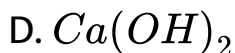
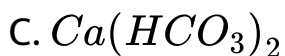
- A. decomposition rection
- B. displacement reaction
- C. combinaiton reaction
- D. redox reaction

Answer: C



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38. A compound X reaction with CO_2 present in air to form Y. Y on decomposition produces an oxide. The compound X is .



Answer: B



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39. Barium can displace which element from its sulphate?

A. Sodium

B. Caesium

C. Aluminium

D. Hydrogen

Answer: A



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40. Dissolution of glucose is

- A. endothermic reaction
- B. exothermic reaction
- C. redox reaction
- D. displacement reaction

Answer: C



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41. Water of crystallisation is not present in

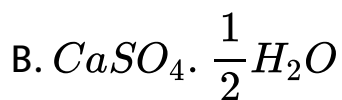
- A. washing soda
- B. baking soda
- C. soda line

D. gypsum

Answer: B

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42. Plaster of Paris is



Answer: B





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43. Acetic acid reacts with NaOH to produce a salt, whose pH is

A. less than 7

B. equal to 7

C. more than 7

D. equal to 14

Answer: B



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44. The gas liberated when a metal is treated with acid or base

A. oxygen

B. nitrogen

C. chlorine

D. hydrogen

Answer: D



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45. High ductility is observed in

A. Na

B. Fe

C. Au

D. Mg

Answer: C



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46. Metal which is found in its native state?

A. Pt

B. Cu

C. Fe

D. Ag

Answer: C



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47. When brass is exposed to air for a long period of time it turns to green due to the

A. formation of $Cu(OH)_2$

B. formation of $CuSO_4$

C. formation of $CuCO_3$

D. formation of Cu_2O

Answer: C



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48. Alloy used for welding purpose consists of.

- A. lead and tin
- B. lead and bismuth
- C. lead and antimony
- D. lead and copper

Answer: A



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49. Liquid non-metal among the following

A. Br

B. Te

C. Hg

D. I

Answer: A



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50. Brass is the alloy of .

A. Cu and Sn

B. Ni and Cr

C. Cu and Zn

D. Pb and Sn

Answer: C



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