



CHEMISTRY

JEE MAIN AND ADVANCED

MOCK TEST 33

Example

1. The IUPAC name of dimethylacetylene is

A. propyne

B. ethyle acetylene

C. But-1-yne

D. But-2-yne

Answer: D



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2. The correct order of increasing acidic character is

A. 

B. 

C. 

D. 

Answer: C

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3. All of the following are the example of benzenoid aromatic compounds, except

A. Toluene

B. Azulene

C. Naphthalene

D. Anthracene

Answer: B



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4. Choose the incorrect statement from the following

A. Benzene is planer molecule

B. All the carbon atoms in benzene are sp^2 hybridised

C. Absence of pure double bond in benzene accounts for the reluctance of benzene to show addition reactions under normal conditions

D. Presence of delocalised π electrons in benzene makes it less stable than hypothetical cyclohexatriene

Answer: D



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5. which among the following statement is incorrect regarding the product formed when two molecules of HBr add to ethyne?

A. IUPAC name is 1,1-dibromomethene

B. it is a geminal dihalide

C. It is a position isomer of 1,2-dibromomethene

D. It has a planer structure

Answer: D



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6. An example of a antiaromatic species is

A. 

B. 

C. 

D. 

Answer: D



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7. Number of sp hybridised carbon atoms in But-2-yne is

A. 1

B. 2

C. 3

D. 4

Answer: B



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8. Total number of pi-electrons in benzene is

A. 2

B. 3

C. 4

D. 6

Answer: D



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9. Total number of hydrogen molecules required to form ethane from ethyne is

A. One

B. Two

C. Three

D. Four

Answer: B



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10. In anthracene, number of pi electrons is equal to x . the value of x is

A. 6

B. 10

C. 14

D. 12

Answer: C



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11. The colour change observed when excess ethyne is passed through the solution of bromine water is

A. Colourless to reddish brown

B. Colourless to green

C. reddish brown to colourless

D. Pink to colourless

Answer: C



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12. For clear water ,its BOD should be less than

A. 50 ppm

B. 17 ppm

C. 10ppm

D. 5ppm

Answer: D



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13. All the following are the effects of depletion of ozone layer, except

A. It can cause skin cancer

B. It increases transpiration in plants and hence decreases soil moisture

C. It increases the acidity of soil

D. It damages the paints over the buildings causing them to fade faster

Answer: C



14. Which of the following is not an example of organochlorine which shows biomagnification?

A. Endrin

B. DDT

C. $HClO_4$

D. Dieldrin

Answer: C



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15. Which of the following gases combines with haemoglobin to form a very stable compound and reduces the oxygen carrying capacity of blood?

A. CO_2

B. CO

C. SO_2

D. NO_2

Answer: B



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16. In which compound the reacting electrophile will be directed to ortho and para position ?

A. 

B. 

C. 

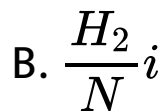
D. 

Answer: B



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17. Hydrogenation of benzene is done by



Answer: B



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18. In which of the following zones of atmosphere ozone layer is present ?

A. Troposphere

B. Stratosphere

C. Mesosphere

D. Exosphere

Answer: B



19. Sometimes , the colour of photochemical smog becomes brown . The reason for this brown appearance is the excess of



Answer: A



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20. Sulphonation of benzene is done by which reagent?

A. Conc. HNO_3 + Conc. H_2SO_4

B. Fuming sulphuric acid

C. SO_2

D. Dilute sulphuric acid

Answer: B



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