Solution

CHEMISTRY

MHT - CET - Chemistry

1.

(d) 1.2×10^{23}

Explanation:

1.2×10^{23}

2.

(d) ii and iii

Explanation:

ii and iii

3.

(d) CaI_2

Explanation:

CaI_2

4.

(c) MnO_4^-

Explanation:

MnO_4^-

5.

(b) option (c)

Explanation:

It is used as an oxidizing agent in organic synthesis.

6.

(b) 2X lit atm mol^{-1} K^{-1}

Explanation:

2X lit atm mol^{-1} K^{-1}

7.

(c) Lyophilic colloids are irreversible.

Explanation:

Lyophilic colloids are irreversible.

8.

(b) n-propane

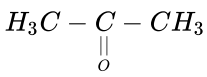
Explanation:

n-propane

9.

(c) $H_3C - \underset{\underset{O}{||}}{C} - CH_3$

Explanation:



10.

(b) 2
Explanation:
2

11.

(b) four
Explanation:
four

12.

(c) 1
Explanation:
1

13.

(c) 158 g mol^{-1}
Explanation:
158 g mol^{-1}

14.

(c) 183 g mol^{-1}
Explanation:
183 g mol^{-1}

15. **(a)** 0.2 M
Explanation:
0.2 M

16.

(d) option (C)
Explanation:
option (C)

17.

(d) - 800 cal
Explanation:
- 800 cal

18. **(a)** option (c)
Explanation:
$\Delta U = W \neq 0$,Q = 0

19.

(c) -76.1 kJ mol^{-1}
Explanation:
-76.1 kJ mol^{-1}

20.

(c) $\frac{\ln 2}{k}$

Explanation:

$\frac{\ln 2}{k}$

21.

(d) 1

Explanation:

1

22. **(a)** Option (b)

Explanation:

mixture of 85 % Ar and 15 % H_2 is filled in electric bulb to increase life of filament.

23.

(b) $sp^3 d^2$

Explanation:

$sp^3 d^2$

24.

(b) It is a dehydrating agent

Explanation:

It is a dehydrating agent

25.

(c) $La(OH)_3$ (Z = 57)

Explanation:

$La(OH)_3$ (Z = 57)

26.

(d) green

Explanation:

green

27.

(c) iron pyrites

Explanation:

iron pyrites

28.

(b) 14

Explanation:

14

29. **(a)** +3, 6

Explanation:

+3, 6

30. **(a)** $[Cr(NH_3)_6][Co(CN)_6]$

Explanation:

$[Cr(NH_3)_6][Co(CN)_6]$

31.

(d) I and III
Explanation:
I and III

32.

(b) $[Pt(NH_3)_2Cl_4]$, $K_2[PtCl_6]$
Explanation:
$[Pt(NH_3)_2Cl_4]$, $K_2[PtCl_6]$

33.

(d) 2-amino-2-methylpropane
Explanation:
2-amino-2-methylpropane

34.

(c) CCl_4, CHI_3, DDT, $CHCl_3$
Explanation:
CCl_4, CHI_3, DDT, $CHCl_3$

35.

(b) laevo rotatory
Explanation:
laevo rotatory

36. **(a)** methanol
Explanation:
methanol

37.

(b) monohydric alcohols
Explanation:
monohydric alcohols

38. **(a)** Propanone
Explanation:
Propanone

39.

(d) A, C, D, B
Explanation:
A, C, D, B

40.

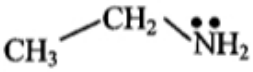
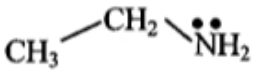
(c) 2-methylbutanal
Explanation:
2-methylbutanal

41.

(c) amide
Explanation:
amide

42. **(a)** sodium salt of phthalic acid + ethylamine
Explanation:
sodium salt of phthalic acid + ethylamine

43. **(a)** $\overset{+}{N}H_4 < R - \overset{+}{N}H_3 < R_2\overset{+}{N}H_2 < R_3\overset{+}{N} - H$
Explanation:
$\overset{+}{N}H_4 < R - \overset{+}{N}H_3 < R_2\overset{+}{N}H_2 < R_3\overset{+}{N} - H$

44.
(c) 
Explanation:


45. **(a)** $C_2H_5N(CH_3)_2$
Explanation:
$C_2H_5N(CH_3)_2$

46. **(a)** carboxyl and amino
Explanation:
carboxyl and amino

47.
(c) I, II, III
Explanation:
I, II, III

48.
(b) Polycarbonates
Explanation:
Polycarbonates

49.
(c) phenol + methanal
Explanation:
phenol + methanal

50.
(b) binding nature
Explanation:
binding nature