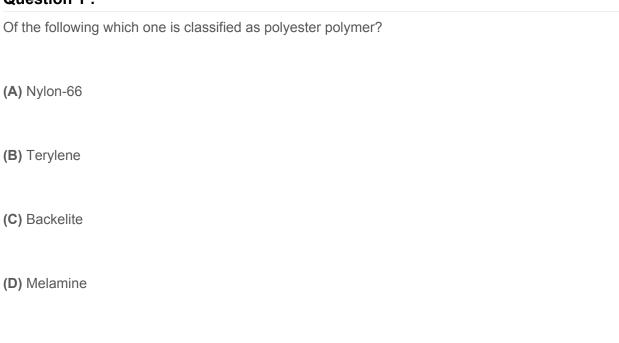
Chemistry Model Question Paper - 15

Question 1:



Question 2:

Answer: (B)

One dm₃ solution containing 10₋₅ moles each of Cl₋ ions and CrO ⁻² ions is treated with 10₋₄ mole of silver nitrate. Which one of the following observations is made?

[KSP AgCl =
$$1 \times 10_{-10}$$
]

- (A) Silver chromate gets precipitated first.
- **(B)** Precipitation does not occur.

(C) Both silver chromate and silver chloride start precipitating simultaneously.	
(D) Silver chloride gets precipitated first.	
Answer: (D)	
Question 3:	
One gram of silver gets distributed between 10 cm3 of molten zinc and 100 cm3 of molten lead at 800	°C. The percen
of silver in the zinc layer is approximately	
(A) 91	
(B) 89	
(C) 94	
(D) 97	
Answer: (D)	
Overation 4	
Question 4:	

One mole of an organic compound 'A' with the formula C ₃ H ₈ O reacts completely with two moles of
HI to form X and Y. When 'Y' is boiled with aqueous alkali forms Z.Z
answers the iodoform test. The compound 'A' is
(A) Propan -1 -o1
(B) Propan -2 -o1
(C) methoxyethane
(D) ethoxyethane
Answer: (C)
Question 5 :
One mole of oxygen at 273 k and one mole of sulphur dioxide at 546 k are taken in two separate
containers, then,
(A) kinetic energy of O2 > kinetic energy of SO2.
(B) kinetic energy of O2 < kinetic energy of SO2.
(C) kinetic energy of both are equal.
(D) None of these
Answer: (B)

Question 6:
One mole of which of the following has the highest entropy?
(A) liquid nitrogen
(B) hydrogen gas
(C) mercury
(D) diamond
Answer: (B)
Question 7:
Paracetamol is a/ an
(A) antimalarial
(B) antipyretic
(C) analgesic
(D) both 2 and 3
Answer: (D)
Question 8:
Peroxide ion
a) is diamagnetic.
b) has five completely filled antibonding molecular orbitals.

c) is isoelectronic with neon.
d) has bond order one.
Which one of these is correct?
(A) a), b) and d)
(B) d) and c)
(C) a) and d)
(D) a), b) and c)
Answer: (C)
Question 9: pH value of which one of the following is not equal to one?
(A) 0.05 M H2SO4
(B) 0.1 M HNO3
(C) 50cm3 of 0.4 M HCI +50 cm3 of 0.2M NaOH

(D) 0.1 M CH ₃ CC	OOH
Answer: (D)	
Question 10 :	
Phenol — X	forms a tribromo derivative "X" is
(A) bromine in wa	ter
(B) bromine in be	nzene

Answer: (A)

(C) bromine in carbon tetrachloride at 0°C.

(D) potassium bromide solution