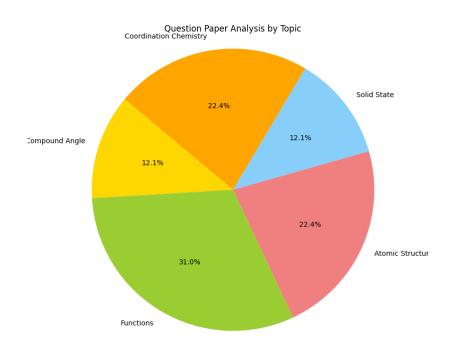
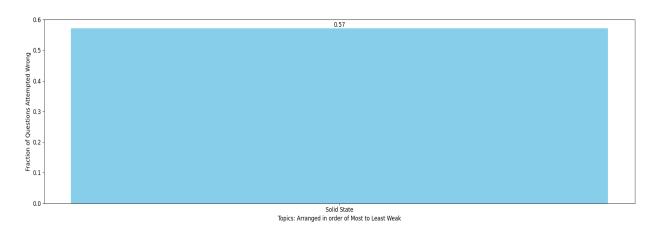
#### Ritvick Drolia Total MLAssist - Personalised DPP

# **Question Paper Analysis:**



# Weak Topic Analysis:



### **Practice Questions:**

#### Solid State:

22.	(1)	AB crystallizes in a rock salt structure with A : $B = 1$ : 1. The shortest distance between A and B is $Y^{1/3}$ nm. The formula mass of AB is 6.023 Y amu where Y is any arbitrary constant.				
		Find the dens	sity in kg m <sup>-3</sup> .		[JEE-2004]	
	<ul> <li>(ii) If measured density is 20 kg m<sup>-3</sup>. Identify the type of point defect.</li> </ul>					
21.	Which one of the following schemes of ordering closed packed sheets of equal sized sphere generate crystal of minimum packing fraction.					
	(A) AE	CABC	(B) ABACABAC	(C) ABBAABBA	(D) ABCBCABCBC	
	PROBLEMS BASED ON HCP UNIT CELL					
44.	The no	o. of atoms per	r unit cell in B.C.C. &	F.C.C. is respectively:	[AIEEE-02]	
	(A) 8,	10	(B) 2, 4	(C) 1, 2	(D) 1, 3	
15.	The two ions A+ and B- have radii 88 and 200 pm respectively. In the closed packed crystal of					
	compound AB, predict the co-ordination number of A*.					
18.	A metal crystallises in a face centred cubic structure. If the edge length of its unit cell is 'a' closest approach between two atoms in metallic crystal will be [Jee-Main (offline)					
	(A) √	2 a	(B) $\frac{a}{\sqrt{2}}$	(C) 2a	(D) 2 $\sqrt{2}$ a	