

NTS GAT General Past Paper

Analytical – Exam No. 03 (PP)

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There are six students (2 males and 4 females) in a class i.e., Ali, Afzal, Alia, Aqsa, Alina and Aatka. They are expert in the following subjects:

Ali and Afzal are expert in Mathematics and Urdu.

Alia and Aqsa are expert in Chemistry and Physics.

Alina and Aatka are expert in English and Biology.

Afzal and Aakta and expert in Physics and Mathematics.

Alia and Alina are expert in Mathematics and Urdu.

Aqsa and Ali are expert in Biology and Urdu.

Solution:

Subj/Name	Ali	Afzal	Alia	Aqsa	Alina	Aatka
Maths	✓	✓	✓		✓	✓
Urdu	✓	✓	✓	✓	✓	
Chem			✓	✓		
Phy		✓	✓	✓		✓
Eng					✓	✓
Bio	✓			✓	✓	✓

Questions:

1. Which of the following students are expert both in Physics and Biology?

- (A) Aqsa and Aatka
- (B) Aakta and Alina
- (C) Alina and Ali
- (D) Ali and Aqsa
- (E) Aqsa and Alina

Solution:

Subj/Name	Ali	Afzal	Alia	Aqsa	Alina	Aatka
Maths	✓	✓	✓		✓	✓
Urdu	✓	✓	✓	✓	✓	
Chem			✓	✓		
Phy		✓	✓	✓		✓
Eng					✓	✓
Bio	✓			✓	✓	✓

So, option A is correct.

2. Which of the following student is not expert in Mathematics and Urdu respectively?

- (A) Ali and Aqsa
- (B) Aqsa and Aatka
- (C) Alina and Alia
- (D) Aqsa and Alina
- (E) Alia and Aqsa

Solution:

Subj/Name	Ali	Afzal	Alia	Aqsa	Alina	Aatka
Maths	✓	✓	✓		✓	✓
Urdu	✓	✓	✓	✓	✓	
Chem			✓	✓		
Phy		✓	✓	✓		✓
Eng					✓	✓
Bio	✓			✓	✓	✓

So, option B is correct.

3. Which of the following students are expert in 3 subjects only?

- (A) Aqsa and Alia
- (B) Ali and Aqsa
- (C) Afzal and Alina
- (D) Aqsa and Aatka
- (E) Ali and Afzal

Solution:

Subj/Name	Ali	Afzal	Alia	Aqsa	Alina	Aatka
Maths	✓	✓	✓		✓	✓
Urdu	✓	✓	✓	✓	✓	
Chem			✓	✓		
Phy		✓	✓	✓		✓
Eng					✓	✓
Bio	✓			✓	✓	✓

So, option E is correct.

4. Which of the following students are not expert both in Physics and Chemistry?

- (A) Afzal and Aatka
- (B) Alina and Ali
- (C) Alina and Afzal
- (D) Afzal and Aqsa
- (E) Ali and Aqsa

Solution:

Subj/Name	Ali	Afzal	Alia	Aqsa	Alina	Aatka
Maths	✓	✓	✓		✓	✓
Urdu	✓	✓	✓	✓	✓	
Chem			✓	✓		
Phy		✓	✓	✓		✓
Eng					✓	✓
Bio	✓			✓	✓	✓

So, option B is correct.

5. Which of the following student is expert in all subjects except Mathematics and English?

- (A) Afzal
- (B) Alia
- (C) Aqsa
- (D) Alina
- (E) Aatka

Solution:

Subj/Name	Ali	Afzal	Alia	Aqsa	Alina	Aatka
Maths	✓	✓	✓		✓	✓
Urdu	✓	✓	✓	✓	✓	
Chem			✓	✓		
Phy		✓	✓	✓		✓
Eng					✓	✓
Bio	✓			✓	✓	✓

So, option C is correct.