

FAST-NU IQ & Analytical Skills Grid

Questions: Practice from Past Papers

Dear Students,

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Before we start today's session, I want to share a few important announcements with you:

- 1- Please visit my website (<https://www.fakharstemsphere.com/index.htm>) to download relevant Entry Test PDF notes, practice tests, and complete solutions. Also, if you want to connect with me directly for career counselling, admission guidance, university selection, or any personal guidance regarding entry tests, you can book a one-to-one session with me by visiting my website.
- 2- Do visit my YouTube Entry Test Playlist, where you will find many useful videos for FAST-NU, NUST, ECAT, NAT, and other university entry test preparation.
- 3- If you have any past papers of FAST-NU, especially Basic Mathematics, IQ & Analytical Skills, Advanced Mathematics, or English, please share them with me on my official email address: fakharstemsphere@gmail.com. This will help me guide you and other students in a much better way.
- 4- At the end of every Live Session, please share your feedback and suggestions. Your feedback helps me improve the upcoming sessions and cover the topics according to your needs.
- 5- Tomorrow In Sha' Allah, we will cover the remaining parts of IQ and Analytical Skills.

After completing IQ, we will start Basic Mathematics, and then we will move towards Advanced Mathematics.

Stay consistent, keep working hard, and prepare with full focus.

Best of luck to all of you!

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i) seq/series ✓

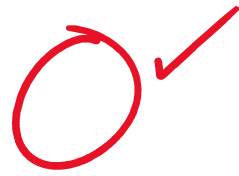
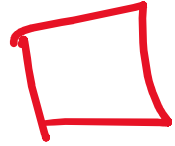
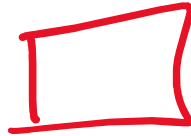
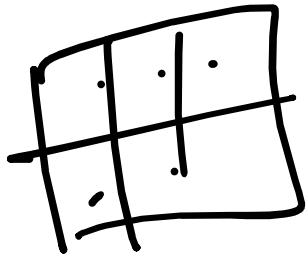
i) 2, 4, 6, 8, 10 ✓

ii) Code/Deco —
ABC → BCD ✓
WPR →

(iii) shapes → Next shape

iv) shapes → odd one

iv) shapes → odd one



Last

Analytical Reasoning.

≡ 100%

↔ Repetition

Reason

Sec-ii)

Statement

20% a) ✓
b) ✓
c) ✓
d) ✓

60%

35% → 4 1/2%

a) m
b) T-c

(Pen) copy, Register, Notebook

pen, copy, register, ...
pages
 odd
 +, -, *, /

Q1. Find the missing number.

7	8	5
7	10	6
10	9	7

- A) 11
 B) 12
 C) 9
 D) 7

Answer: _____

~~24/25~~
 $19 + 6 = 25$

11

- i) Row sum
 ii) Col. sum
 iii) Diagonal sum

Q2. Find the missing number.

25	10	35
5	25	15
10	6	20

- A) 15
 B) 17
 C) 20
 D) 18

Answer: _____

70 70

Q3. Find the missing number.

20	15	10
5	10	15
10	10	10

- A) 18
 B) 16
 C) 15
 D) 10

Answer: _____

$35 \downarrow 35 \ 35$

Q4. Find the missing number.

17	18	19
17	36	1
12	31	11

- A) 15
 B) 12
 C) 13
 D) 11

Answer: _____

54 54 54

(35 35 35)

Col-Sum

Q5. Find the missing number.

14	16	16
15	25	21
21	9	13

- A) 13
B) 16
C) 17
D) 18

Answer: _____

50 50 50

Q6. Find the missing number.

20	21	9
30	12	8
14	18	3

- A) 4
B) 6
C) 8
D) 3

Answer: _____

IQ

Q7. Find the missing number.

18	12	16
13	14	18
9	14	6

- A) 8
B) 6
C) 3
D) 7

Answer: _____

40 40 40

$C_3 = 4(C_2)$

Q8. Find the missing number.

13	8	32
28	23	92
14	9	36

- A) 34
B) 36
C) 32
D) 38

Answer: _____

$$8 \times 4 = 32$$

$$23 \times 4 = 92$$

$$9 \times 4 = 36$$

Q9. Find the missing number.

5	6	7
4	6	8
3	6	

- A) 8
B) 9 ✓
C) 10
D) 7

Answer: _____

$$R_1 = R_2 + R_3$$

$$\text{Sum Row 1} = \underline{\underline{19}}$$

Q10. Find the missing number.

2	8	9
3	2	4
3	6	

- A) 3
B) 5
C) 1
D) 7

Answer: _____

$$\underline{\underline{19}}$$

Q11. Find the missing number.

6	12	9
8	7	12
10	5	

- A) 10
B) 11
C) 12 ✓
D) 13

Answer: _____

Q12. Find the missing number.

11	9	13
7	16	6
12		11

- A) 5 ✓
B) 7
C) 9
D) 11

$$\underline{\underline{30}}$$

Q13. Find the missing number.

8	14	18
12	20	7
	10	16

- A) 4
B) 5
C) 6 ✓
D) 8

Answer: _____

Q14. Find the missing number.

9	6	13
12	4	14
7	8	

- A) 11 ✓
B) 12
C) 13
D) 14

Answer: _____

Q15. Find the missing number.

4	X	6	12
8	X	3	12
6	X	5	15

- A) 12
B) 14
C) 15
D) 18

Answer: _____

$$C_1 \times C_2 = \frac{24}{2} = 12$$

$$R_1 + R_2 - 5 = R_3$$

$$3 + 4 = 7$$

$$3^3 + 5 = 28$$

$$4^3 - 6 = 58$$

2	4	12
3	5	.
4	6	-

$$n^2 - n$$

$$n^3 \pm n$$

Q16. Find the missing number.

14	20	11
6	8	9
15	23	15

- A) 14
B) 15
C) 16
D) 18

Answer: _____

$$20 - 5 = 15$$

$$28 - 5 = 23$$

$$34$$

Q17. Find the missing number.

8	10	12
9	15	11
14	7	17

- A) 17
B) 18
C) 19
D) 20

Answer: _____

21
13

Q18. Find the missing number.

5	8	7
11	9	10
8	10	12

- A) 11
B) 12
C) 13
D) 14

Answer: _____

24 27 30
→ 17

Q19. Find the missing number.

C₁ C₂

11	7	12
14	9	15
10	6	12

- A) 9
B) 10
C) 12
D) 14

Answer: _____

$$(C_1 - C_2) = 4 \times 3 = 12$$

$$14 - 9 = 5 \times 3 = 15$$

$$\frac{22}{2} = 11 \quad \text{8} + \frac{?}{2} = 11$$

Q20. Find the missing number.

10	12	14
7	10	13
8	11	14

- A) 12
B) 13
C) 14
D) 15

Answer: _____

$$C_3 = 3(C_1 - C_2)$$

$$C_2 = \frac{C_1 + C_3}{2}$$

Check Point

DY\$

118	5	141	97
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DI

185	141	71
89 ✓	96	103

a) 185 b) 74 c) 100 d) 98 e) 103

$$C_2 = \frac{C_1 + C_3}{2}$$

Q21. Find the missing number.

6	8	10
11	15	16
5	7	6

- A) 4
B) 5
C) 6
D) 7

Answer: _____

$$R_2 = R_1 + R_3$$

Q22. Find the missing number.

21	18	25
9	7	13
12	11	12

- A) 10
B) 11
C) 12
D) 13

Answer: _____

$$R_3 = R_1 - R_2$$

Q23. Find the missing number.

4	9	5
7	15	8
6	14	8

- A) 6
B) 8
C) 10
D) 12

Answer: _____

Q24. Find the missing number.

3	8	14
5	6	16
4	7	15

- A) 13
B) 14
C) 15
D) 16

Answer: _____

$$C_3 = 2.C_1 + C_2$$

$$\begin{array}{r} 11+3 \\ 11+5 \\ 11+7 \\ \hline 15 \end{array}$$

Answer: _____

$$C_2 = C_1 + C_3$$

Answer: _____

$$C_3 = 2C_1 + C_2$$

~~15~~



Q25. Find the missing number.

6	10	14
8	13	18
10	15	20

- A) 12
B) 14
C) 15 ✓
D) 16

Answer: _____

$$C_2 = \frac{C_1 + C_3}{2}$$

Q26. Find the missing number.

9	12	15
6	9	12
5	7	9

- A) 6
B) 7
C) 8 ✓
D) 9

Answer: _____

$$R_3 = \frac{(R_1 + R_2)}{2}$$

$$\frac{15 + 12}{2}$$

Q27. Find the missing number.

5	7	18
6	9	27
7	11	38

- A) 36
B) 37
C) 38 ✓
D) 39

Answer: _____

$$25 - 7 = 18$$

$$C_3 = C_1^2 - C_2$$

Q28. Find the missing number.

4	5	14
7	3	13
6	4	14

- A) 12
B) 13
C) 14 ✓
D) 15

Answer: _____

$$C_3 = C_1 + 2C_2$$

Q29. Find the missing number.

4	9	11
3	5	7
2	4	3

- A) 2
B) 3
C) 4
D) 5

Answer: _____

$$R_1 = R_2 + R_3$$

Q30. Find the missing number.

16	11	13
8	12	10
6	?	7

- A) 6
B) 7
C) 8
D) 9

Answer: _____

$$30 \rightarrow 30 \rightarrow 30$$

Q31. Find the missing number.

6	10	26
5	8	17
4	7	?

- A) 8
B) 9
C) 10
D) 11

Answer: _____

$$C_3 = C_1^2 - C_2$$

Q32. Find the missing number.

3	6	15
4	5	16
5	7	?

- A) 25
B) 30
C) 35
D) 32

Answer: _____

$$C_3 = C_1 C_2 - C_1$$

Q33. Find the missing number.

4	7	22
5	8	26
6	9	?

- A) 28
B) 30
C) 32
D) 34

Answer: _____

$$C_3 = 2(C_1 + C_2)$$

Q34. Find the missing number.

2	5	9
3	7	16
4	9	?

- A) 23
B) 24
C) 25
D) 26

Answer: _____

$$C_3 = C_1^2 + C_2$$

Answer: _____

$$C_3 = 2(C_1 + C_2)$$

Answer: _____

$$C_3 = C_1^2 + C_2$$

Q35. Find the missing number.

$C_1 \rightarrow C_2 \rightarrow C_3$

9	5	16
8	3	25
7	4	9

A) 6
B) 7
C) 8
D) 9

Answer: _____

$$C_3 = (C_1 - C_2)^2$$

Q36. Find the missing number.

$(7, 11)$

5	4	6
9	7	11
16	9	25

A) 23
B) 24
C) 25
D) 26

Answer: _____

$$R_3 = R_1^2 - R_2$$

$$36 - 11 = 25$$

Q37. Find the missing number.

2	6	13
3	5	16
4	7	29

A) 27
B) 28
C) 29
D) 30

Answer: _____

$$C_3 = C_1 C_2 + 1$$

Q38. Find the missing number.

2	3	25
4	1	25
3	5	64

A) 49
B) 64
C) 81
D) 36

Answer: _____

$$C_3 = (C_1 + C_2)^2$$

Q39. Find the missing number.

R_1

3	4	5
6	7	8
18	22	26

R_2

R_3

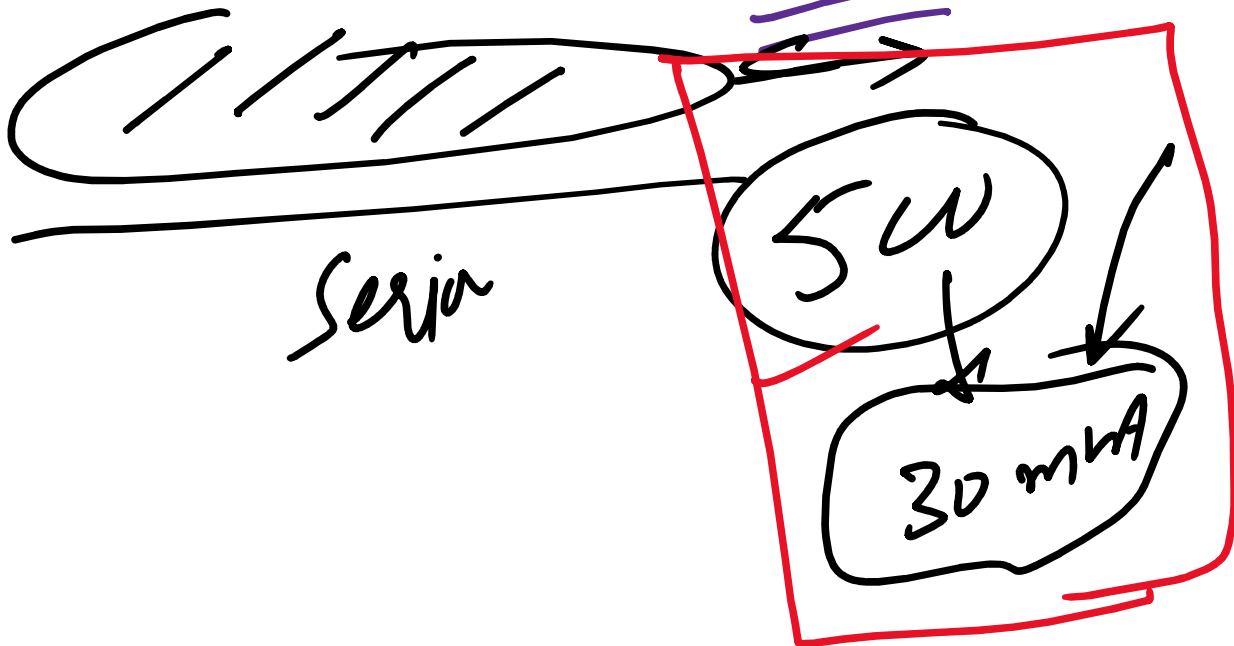
- A) 24
B) 25
C) 26
D) 27

Answer: _____

$$R_3 = 2(R_1 + R_2)$$



Test is Best for test



Q40. Find the missing number.

C_1 C_2 C_3

5	3	19
6	4	28
7	5	?

A) 37
B) 38
C) 39
D) 40

Answer: _____

$$C_3 = C_1^2 - 2C_2$$

$$25 - 6 = 19$$

$$36 - 8 = 28$$

$$49 - 10 = 39$$



$3^2 \rightarrow 4$	5 ✓
$4^2 - 7$	9 ✓
$5 - 8$	?

$$C_3 = C_1^2 - C_2$$

$$9 - 4 = 5$$
$$16 - 7 = 9$$

a) 13

b) 15

c) 17

d) 18

$$5^2 - 8 = 17$$