



**ARMY BURN HALL COLLEGE FOR GIRLS ABBOTTABAD**  
**ENTRANCE- EXAM 2024**

**CLASS-PJC-II**  
**TIME: 1 HR.**

**SUBJECT: MATHS**  
**MAX MARKS: /50**

**Name:** \_\_\_\_\_

**Attempt all questions:**

Q1. Check whether 67 is prime or composite.

\_\_\_\_\_ [3]

Q2. Find first four multiples of 15.

\_\_\_\_\_ [2]

Q3. Find the prime factorisation of given number, and leave your answer in index form.

128

\_\_\_\_\_ [4]

Q4. Check whether 90 is a perfect square or not.

\_\_\_\_\_ [3]

Q5. Find the HCF of 40, 60 and 100.

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\_\_\_\_\_ [4]

Q6. Find the LCM of 63, 80 and 102.

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\_\_\_\_\_ [4]

Q7. By using a number line, arrange each of the following in ascending order.

230, -13, 23, -3, 30

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\_\_\_\_\_ [3]

Q8. Find the value of each of the following.

a)  $3 + (-5)$

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\_\_\_\_\_ [2]

b)  $-12 - (-15)$

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\_\_\_\_\_ [3]

Q9. Evaluate.

$$10.5 \div 0.4$$

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\_\_\_\_\_ [2]

Q10. Find the value of each of the following.

a)  $-11 \times (-16)$

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\_\_\_\_\_ [2]

b)  $\frac{-185}{-5}$

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\_\_\_\_\_ [2]

Q11. Solve the following equation.

$$\frac{z+2}{3} = \frac{3z+2}{5}$$

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\_\_\_\_\_ [4]

Q12. If  $N = \frac{m}{x+q}$ , find the value of q when  $N = 1\frac{4}{5}$ ,  $m = 9$  and  $x = 2$ .

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\_\_\_\_\_ [4]

Q13. The sum of two numbers, one of which is two-third of the other, is 45. Find the smaller number.

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\_\_\_\_\_ [4]

Q14. Find the value of the following.

$$6\frac{1}{5} - 2\frac{3}{10}$$

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