

# KANKOR EXAMINATION

## Mathematics – Practice Question Paper | Set 5

|                              |              |                  |
|------------------------------|--------------|------------------|
| 20 Multiple-Choice Questions | Practice Set | English Language |
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**Instructions:** Choose the best answer. Mark one option (A, B, C or D) for each question.

### Section A

**Q1.** A rectangle has length 12 and width 5. Its perimeter is:

- A. 17
- B. 34
- C. 60
- D. 120

**Q2.** What is  $\log_{10}(100)$ ?

- A. 1
- B. 2
- C. 10
- D. 100

**Q3.** If  $x:y = 4:5$  and  $x = 20$ ,  $y$  is:

- A. 15
- B. 20
- C. 25
- D. 30

**Q4.** The derivative of  $x^2$  is:

- A.  $x$
- B.  $2x$
- C.  $x^2$
- D. 2

**Q5.** If  $3x + 5 = 20$ , what is  $x$ ?

- A. 3
- B. 5
- C. 7
- D. 9

### Section B

**Q6.** What is the HCF of 24 and 36?

- A. 6
- B. 8
- C. 12
- D. 18

**Q7.** What is 15% of 200?

- A. 20
- B. 25
- C. 30
- D. 35

**Q8.** The roots of  $x^2 - 5x + 6 = 0$  are:

- A. 1,6
- B. 2,3
- C. -2,-3
- D. 3,5

**Q9.** What is the area of a circle of radius 7 cm? Use  $\pi = \frac{22}{7}$ .

- A. 44

- B. 88
- C. 154
- D. 308

**Q10.** What is  $\sin 30^\circ$ ?

- A.  $\frac{1}{2}$
- B.  $\frac{1}{\sqrt{2}}$
- C.  $\frac{\sqrt{3}}{2}$
- D. 1

### Section C

**Q11.** The sum of angles of a triangle is:

- A.  $90^\circ$
- B.  $180^\circ$
- C.  $270^\circ$
- D.  $360^\circ$

**Q12.** What is the next term: 2, 5, 8, 11, ...?

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

**Q13.** If  $a:b = 2:3$  and  $b = 12$ ,  $a$  is:

- A. 6
- B. 8
- C. 9
- D. 18

**Q14.** What is the value of  $2^3 \times 2^2$ ?

- A. 16
- B. 24
- C. 32
- D. 64

**Q15.** A line with slope 0 is:

- A. vertical
- B. horizontal
- C. curved
- D. undefined

### Section D

**Q16.** What is the mean of 4, 6, 8, 10?

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

**Q17.** If  $a = 4$  and  $b = 3$ ,  $a^2 + b^2$  equals:

- A. 12
- B. 16
- C. 25
- D. 49

**Q18.** What is  $\sqrt{144}$ ?

- A. 10
- B. 11
- C. 12
- D. 14

**Q19.** The probability of getting a head on a fair coin is:

- A. 0
- B.  $\frac{1}{4}$
- C.  $\frac{1}{2}$
- D. 1

**Q20.** What is  $\frac{7}{8} + \frac{1}{8}$ ?

- A.  $\frac{1}{2}$
- B. 1
- C.  $\frac{7}{8}$
- D.  $\frac{9}{8}$

## Answer Key

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 1. B  | 2. B  | 3. C  | 4. B  | 5. B  |
| 6. C  | 7. C  | 8. B  | 9. C  | 10. A |
| 11. B | 12. C | 13. B | 14. C | 15. B |
| 16. B | 17. C | 18. C | 19. C | 20. B |

**Note:** This is an original Kankor-style practice paper, not an official past examination paper.