

## Section : Quantitative Aptitude

**Q.1** In  $\triangle ABC$ , AD is a median and P is a point on AD such that  $AP : PD = 3 : 4$ . Then  $ar(\triangle BPD) : ar(\triangle ABC)$  is equal to:

- Ans
- 1. 4 : 7
  - 2. 2 : 7
  - 3. 2 : 5
  - 4. 1 : 3

**Q.2** The difference between the compound interest and simple interest on ₹x at 7.5% per annum for 2 years is ₹45. What is the value of x?

- Ans
- 1. 9,000
  - 2. 8,000
  - 3. 7,000
  - 4. 10,000

**Q.3** The table below indicates the percentage of students and the ratio of boys and girls in the various streams of a college. (Total students = 2600)

Stream	CE	CS	IT	ME	EC
% Students	20%	18%	21%	22%	19%
Boys : Girls	3 : 2	4 : 5	3 : 4	6 : 5	9 : 10

What is the ratio of students studying in CS and IT?

- Ans
- 1. 11 : 13
  - 2. 6 : 7
  - 3. 12 : 13
  - 4. 9 : 11

**Q.4** A is 40% more efficient than B and C is 20% less efficient than B. Working together, they can complete a task in 20 hours. In how many hours will A alone complete 35% of that task?

- Ans**
- 1. 14
  - 2. 13
  - 3. 15
  - 4. 16

**Q.5** The table below indicates the percentage of students and the ratio of boys and girls in the various streams of a college. (Total students = 2600)

Stream	CE	CS	IT	ME	EC
% Students	20%	18%	21%	22%	19%
Boys : Girls	3 : 2	4 : 5	3 : 4	6 : 5	9 : 10

What is the ratio of boys and girls in the college?

- Ans**
- 1. 1 : 1
  - 2. 5 : 6
  - 3. 7 : 8
  - 4. 6 : 7

**Q.6** In a class of 40 students, 45% are girls and the remaining are boys. If the average of the girls' marks is 54 and that of the boys is 46, what is the average of the whole class?

- Ans**
- 1. 49.5
  - 2. 49.8
  - 3. 49.6
  - 4. 49.7

**Q.7** The table below indicates the percentage of students and the ratio of boys and girls in the various streams of a college. (Total students = 2600)

Stream	CE	CS	IT	ME	EC
% Students	20%	18%	21%	22%	19%
Boys : Girls	3 : 2	4 : 5	3 : 4	6 : 5	9 : 10

If the data about the number of girls enrolled in the various streams is represented by a pie-chart, what is the central angle of the sector representing the number of girls in the ME stream, to the nearest whole degree?

- Ans**
- 1. 72°
  - 2. 70°
  - 3. 68°
  - 4. 74°

Q.8 The value of  $\cot^2 62^\circ - \sec^2 28^\circ + \operatorname{cosec}^2 30^\circ + \tan^2 60^\circ$  is equal to:

- Ans
- 1.  $\frac{16}{3}$
  - 2.  $\frac{10}{3}$
  - 3. 6
  - 4. 8

Q.9 If  $\operatorname{cosec} \theta = \frac{13}{12}$ , then  $\sin \theta + \cos \theta - \tan \theta$  is equal to:

- Ans
- 1.  $\frac{71}{65}$
  - 2.  $-\frac{71}{65}$
  - 3.  $\frac{139}{65}$
  - 4.  $\frac{91}{65}$

Q.10 An article is sold for ₹1,680 after two successive discounts of 20% and 16%. What is the marked price of the article?

- Ans
- 1. ₹2,200
  - 2. ₹2,500
  - 3. ₹2,300
  - 4. ₹2,400

Q.11 The radii of the two circular faces of the frustum of a cone are 5 cm and 4 cm. If the height of the frustum is 21 cm, what is its volume in  $\text{cm}^3$ ? ( $\pi = \frac{22}{7}$ )

- Ans
- 1. 1342
  - 2. 902
  - 3. 1056
  - 4. 638

# SSC CHSL (10+2) Printed Study Kit



- 100% CHSL Exam Syllabus Covered
- 5 Books, 1000+ Pages
- 4500+ MCQs
- Solved Papers & Mock Tests (PDF Copy)
- 1 Year Current Affairs (PDF Copy)

**50% OFF**  
~~₹ 4,000/-~~  
**₹ 1,999/-**

FREE SHIPPING 

for Exam Help Call Us at: +91 8800734161

 **SSCPORTAL.IN**  
India's Largest Online Community for SSC CHSL Exam Preparation

## What you will get:

- 100% CHSL Exam Syllabus Covered
- 5 Booklets
- More Than 1000+ Pages
- 4500+ MCQs
- Previous Solved Papers
- Current Affairs for Exam
- Guidance & Support from Our Experts

Price of the Kit:

~~Rs. 4,000~~

**Rs. 1,999/-**

*(Limited time Offer)*



Net Banking

**Order Online (100% Safe)**

[Click here for Other Payment Options \(Cash/NEFT/etc\)](#)

[FOR MORE DETAILS CLICK HERE](#)



Q.12 The value of:

$$7.2 + (8.4 \div 0.12 \times 0.2) - 5 \times 3 \div 0.05 + 3$$

- Ans
- 1. -75.8
  - 2. -275.8
  - 3. 21.2
  - 4. -175.8

Q.13 In a circle with centre O, AB is the diameter and CD is a chord such that ABCD is a trapezium. If  $\angle BAC = 18^\circ$ , then  $\angle CAD$  is equal to:

- Ans
- 1.  $18^\circ$
  - 2.  $54^\circ$
  - 3.  $36^\circ$
  - 4.  $72^\circ$

Q.14 If  $(a + b) = 6$  and  $ab = \frac{16}{3}$ , then  $(a^3 + b^3)$  is equal to:

- Ans
- 1. 220
  - 2. 120
  - 3. 150
  - 4. 190

Q.15 If  $a : b = 2 : 3$  and  $c : b = 5 : 6$ , then  $a : b : c$  is equal to:

- Ans
- 1. 10 : 15 : 18
  - 2. 6 : 9 : 16
  - 3. 6 : 9 : 12
  - 4. 4 : 6 : 5

Q.16  $\triangle ABC \sim \triangle PRQ$  and  $PQ = 4$  cm,  $QR = 7$  cm and  $PR = 8$  cm. If  $\text{ar}(\triangle ABC) : \text{ar}(\triangle PRQ) = 1 : 4$ , then AC is equal to:

- Ans
- 1. 1 cm
  - 2. 4 cm

3. 3.7 cm

4. 2 cm

Q.17 If  $a + b + c = 6$  and  $ab + bc + ca = 4$ , then  $a^3 + b^3 + c^3 - 3abc$  is equal to:

Ans  1. 148

2. 144

3. 154

4. 160

Q.18 If  $\sin \theta = \cos(50^\circ + \theta)$ , then  $\theta$  is equal to:

Ans  1.  $30^\circ$

2.  $25^\circ$

3.  $20^\circ$

4.  $35^\circ$

Q.19 A train without stoppage travels with an average speed of 72 km/h and with stoppage, it travels with an average speed of 60 km/h. For how many minutes does the train stop on an average per hour?

Ans  1. 10

2. 12

3. 8

4. 6

Q.20 The table below indicates the percentage of students and the ratio of boys and girls in the various streams of a college. (Total students = 2600)

Stream	CE	CS	IT	ME	EC
% Students	20%	18%	21%	22%	19%
Boys : Girls	3 : 2	4 : 5	3 : 4	6 : 5	9 : 10

In which stream, is the difference in the percentage of boys and girls minimum?

Ans  1. EC

2. ME

3. CS

4. IT

**Q.21** Two chords AB and CD of a circle when produced, meet at a point P outside the circle. If AB = 6 cm, PB = 5 cm, PD = 4 cm, then CD is equal to:

- Ans
- 1. 9.75 cm
  - 2. 7.75 cm
  - 3. 7.5 cm
  - 4. 8.25 cm

**Q.22** Two articles are sold for ₹5,104 each. On one, the seller gains 16% and on the other, he loses 12%. What is his overall gain percent, nearest to two decimal places?

- Ans
- 1. 0.14%
  - 2. 0.12%
  - 3. 0.08%
  - 4. 0.10%

**Q.23** If  $\sqrt{x} - \frac{1}{\sqrt{x}} = \sqrt{6}$ , then  $x^2 + \frac{1}{x^2}$  is equal to:

- Ans
- 1. 40
  - 2. 54
  - 3. 62
  - 4. 66

**Q.24** The price of sugar is increased by 17%. A person wants to increase his expenditure by 8% only. By what percent should he decrease his consumption, nearest to one decimal place?

- Ans
- 1. 7.9%
  - 2. 8.1%
  - 3. 7.7%
  - 4. 8.3%

**Q.25** If the six digit number  $4x573y$  is divisible by 72 then the value of  $(x + y)$  is:

- Ans  1. 8

✗ 2. 4

✗ 3. 9

✗ 4. 6





# SSC EXAMS PRINTED STUDY NOTES

<a href="#">Study Material for SSC CGL (Tier-1) Examination</a>	<a href="#">English</a>	<a href="#">CLICK HERE</a>
<a href="#">Study Kit for SSC CGL (Tier-2) Exam</a>	<a href="#">English</a>	<a href="#">CLICK HERE</a>
<a href="#">Study Kit for SSC CHSL (10+2) Examination</a>	<a href="#">English</a>	<a href="#">CLICK HERE</a>
<a href="#">Study Kit for SSC Stenographers (Grade 'C' &amp; 'D')</a>	<a href="#">English</a>	<a href="#">CLICK HERE</a>
<a href="#">Study Kit for Multitasking (Non-Technical) - MTS</a>	<a href="#">English</a>	<a href="#">CLICK HERE</a>
<a href="#">Study Kit for SSC Constables (GD) Exam</a>	<a href="#">English</a>	<a href="#">CLICK HERE</a>
<a href="#">Study Kit For SSC Sub-Inspectors in Delhi Police, CAPFs, CISF</a>	<a href="#">English</a>	<a href="#">CLICK HERE</a>
<a href="#">Study Kit for SSC Junior Engineer Exam (Paper-1)</a>	<a href="#">English</a>	<a href="#">CLICK HERE</a>
<b>IAS EXAMS STUDY MATERIALS</b>		
<a href="#">Study Kit for IAS (Pre) GENERAL STUDIES Paper-1 (GS)</a>	<a href="#">English</a>	<a href="#">CLICK HERE</a>
<a href="#">Study Kit for IAS (Pre) CSAT Paper-2(Aptitude)</a>	<a href="#">English</a>	<a href="#">CLICK HERE</a>
<a href="#">सामान्य अध्ययन (GS) प्रारंभिक परीक्षा (Pre) पेपर-1</a>	<a href="#">हिन्दी</a>	<a href="#">CLICK HERE</a>
<a href="#">आई. ए. एस. (सी-सैट) प्रारंभिक परीक्षा पेपर -2</a>	<a href="#">हिन्दी</a>	<a href="#">CLICK HERE</a>
<a href="#">Gist of NCERT Study Kit For UPSC Exams</a>	<a href="#">English</a>	<a href="#">CLICK HERE</a>
<a href="#">यूपीएससी परीक्षा के लिए एनसीईआरटी अध्ययन सामग्री</a>	<a href="#">हिन्दी</a>	<a href="#">CLICK HERE</a>