



## SSC Multi-Tasking Staff (Non Technical) Exam Mock Test -6 (Numerical Aptitude)

---

26. In an examination, a student who gets 20% of the maximum marks fails by 5 marks. Another student who scores 30% of the maximum marks gets 20 marks more than the pass marks. The necessary percentage required for passing is

- (a) 32%
- (b) 23%
- (c) 22%
- (d) 20%

27. When 60 is subtracted from 60% of a number, the result is 60. The number is

- (a) 120
- (b) 150
- (c) 180
- (d) 200

28.

$\left( \frac{1+\sqrt{2}}{\sqrt{5}+\sqrt{3}} + \frac{1-\sqrt{2}}{\sqrt{5}-\sqrt{3}} \right)$  simplifies to :

- (a)  $\sqrt{5} + \sqrt{6}$
- (b)  $2\sqrt{5} + \sqrt{6}$
- (c)  $\sqrt{5} - \sqrt{6}$
- (d)  $2\sqrt{5} - 3\sqrt{6}$

29.  $(\sqrt{72} - \sqrt{18}) + \sqrt{12}$  is equal to :

- (a)  $\sqrt{6}$
- (b)  $\frac{\sqrt{3}}{2}$
- (c)  $\frac{\sqrt{2}}{3}$
- (d)  $\frac{\sqrt{6}}{2}$

30. The next term of the sequence  $\frac{1}{2}, 3\frac{1}{4}, 6, 8\frac{3}{4} \dots$

is :

- (a)  $10\frac{1}{4}$
- (b)  $10\frac{3}{4}$
- (c)  $11\frac{1}{4}$
- (d)  $11\frac{1}{2}$

31. If  $x = 7 - 4\sqrt{3}$ , then the value of  $\left(x + \frac{1}{x}\right)$  is :

- (a)  $3\sqrt{3}$
- (b)  $8\sqrt{3}$
- (c)  $14 + 8\sqrt{3}$
- (d) 14

32. If 17200 is divided by 18, the remainder is :

- (a) 17
- (b) 16
- (c) 1
- (d) 2

33. On simplification  $3034 - (1002 \div 20.04)$  is equal to

- (a) 3029
- (b) 2984

- (c) 2993
- (d) 2543

34. The value of  $\frac{\sqrt{80} - \sqrt{112}}{\sqrt{45} - \sqrt{63}}$  is :

- (a)  $\frac{3}{4}$       (b)  $1\frac{3}{4}$       (c)  $1\frac{1}{3}$       (d)  $1\frac{7}{9}$

35. When simplified, the expression

$$(100)^{\frac{1}{2}} \times (0.001)^{\frac{1}{3}} - (0.0016)^{\frac{1}{4} \times 3^0} + \left(\frac{5}{4}\right)^{-1}$$

equal to :

- (a) 1.6
- (b) 0.8
- (c) 1.0
- (d) 0

36.

$$\left( \frac{785 \times 785 \times 785 + 435 \times 435 \times 435}{(785)^2 + (435)^2 - (785)(435)} \right)$$

simplifies to :

- (a) 350
- (b) 785
- (c) 1220
- (d) 1320

37. Find the missing number of the sequence : “3, 14, 25, 36, 47 , ?”

- (a) 1114
- (b) 1111
- (c) 1113
- (d) None of these

38. When simplified the product

$\left(1 - \frac{1}{3}\right)\left(1 - \frac{1}{4}\right)\left(1 - \frac{1}{5}\right) \dots \left(1 - \frac{1}{n}\right)$  becomes :

- (a)  $\frac{1}{n}$       (b)  $\frac{2}{n}$       (c)  $\frac{2(n-1)}{n}$       (d)  $\frac{2}{n(n+1)}$

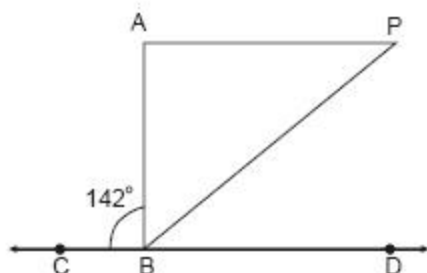
39. The sum  $(101 + 102 + 103 + \dots + 200)$  is equal to :

- (a) 15000  
(b) 15025  
(c) 15050  
(d) 25000

40. The sum of all natural numbers from 75 to 97 is:

- (a) 1598  
(b) 1798  
(c) 1958  
(d) 1978

41. In the given figure,  $AB \perp CD$ ;  $AP \parallel CD$ ,  $\angle CBP = 142^\circ$  Find  $\angle ABP$  and  $\angle APB$ .

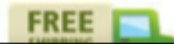


- (a)  $52^\circ, 38^\circ$   
(b)  $56^\circ, 34^\circ$   
(c)  $51^\circ, 39^\circ$   
(d)  $57^\circ, 33^\circ$



## Printed Study Kit for MTS (Non-Technical) Exam

- 100% Syllabus Covered
- 5 Booklets
- 1200+ Pages
- 5500+ MCQs



 [Click Here for More Details](#)

### What you will get:

- 100% Syllabus Covered
- 5 Booklets
- 1,200+ Pages
- 5,600+ MCQs
- Five Practice Papers
- One Year Current Affairs
- Guidance & Support from Our Experts

Price of the Kit:

~~Rs. 6,000~~

**Rs. 2,999/-**  
(Limited time Offer)



Net Banking

**[FOR MORE DETAILS CLICK HERE](#)**

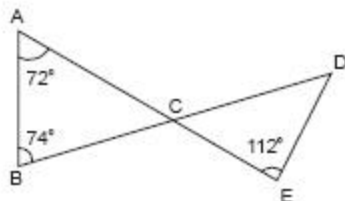
**[Order Online \(100% Safe\)](#)**

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

**50%  
OFF**

**CLICK HERE**

42. In the figure,  $\angle CAB = 72^\circ$ ,  $\angle CBA = 74^\circ$   
and  $\angle CED = 112^\circ$  Find  $\angle CDE$ .



- (a)  $34^\circ$
- (b)  $33^\circ$
- (c)  $35^\circ$
- (d)  $38^\circ$

43. The point of intersection of the line  $x + y + 1 = 0$  and  $2x - y + 5 = 0$  is

- (a)  $(-1, 1)$
- (b)  $(-2, 1)$
- (c)  $(1, 2)$
- (d)  $(1, -2)$

44 The equation of the line passing through the point of intersection of the lines  $5x - 2y = 3$ ,  $4x - 7y + 3 = 0$  and parallel to the lines  $3x - 2y + 5 = 0$

- (a)  $3x - 2y = 0$
- (b)  $3x - 2y = 1$
- (c)  $3x - 2y = 5$
- (d) None of these

45 The equation of a straight line passing through the intersection of the lines  $x + y + 1 = 0$ ,  $2x - y + 5 = 0$  and through the point  $(5, -2)$ .

- (a)  $3x + 5y = 1$
- (b)  $3x - 7y = 1$
- (c)  $3x + 7y = 1$
- (d) None of these

46. The equation of a line parallel to  $3x - 2y + 1 = 0$  and passing through the origin is

- (a)  $3x - 2y = 0$
- (b)  $3x - 2y = 5$
- (c)  $3x - 2y = 1$
- (d) None of these

47. Find the remainder when  $f(x) = 2x^3 - 2x^2 - x + 4$ , is divided by  $(2x + 1)$ .

- (a)  $\frac{23}{8}$    (b)  $\frac{35}{8}$    (c)  $\frac{27}{8}$    (d)  $\frac{31}{8}$

48. If the polynomials  $f(x) = x^3 - ax^2 + 9x + a$  is divided by  $(x - a)$ .

- (a)  $10a$   
(b)  $6a$   
(c)  $7a$   
(d)  $5a$

49. If  $x^2 - 1$  is a factor of the polynomial  $f(x) = 2x^2 + Ax^2 + Bx + 3$ , then find A and B.

- (a)  $-3, 2$   
(b)  $-3, -2$   
(c)  $3, -2$   
(d) Can't be determined

50. When  $4x^3 - ax^2 + bx - 4$  is divided by  $x - 2$  and  $x + 1$ , the respective remainders are 20 and  $-13$ . Find the values of a and b

- (a)  $-3, -2$   
(b)  $-3, 2$   
(c)  $3, -2$   
(d)  $3, 2$



## 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>