



SSC Multi-Tasking Staff (Non Technical) Exam Mock Test -4 (Numerical Aptitude)

26. Suman can do a work in 3 days. Sumati can do the same work in 2 days. Both of them finish the work together and get Rs. 150. What is the share of Suman ?

- (a) Rs. 30
- (b) Rs. 60
- (c) Rs. 70
- (d) Rs. 75

27. Three taps A, B and C can fill a tank in 12, 15 and 20 hours respectively. If A, is open all the time and B and C are open for one hour each alternatively, the tank will be full in

- (a) 6 hours
- (b) $6\frac{2}{3}$ hours
- (c) 7 hours
- (d) $7\frac{1}{2}$ hours

28. 5 men can do a piece of work in 6 days while 10 women can do it in 5 days. In how many days can 5 women and 3 men do it ?

- (a) 4
- (b) 5
- (c) 6
- (d) 8

29. A can do a piece of work in 12 days and B can do it in 18 days. They work together for 2 days and then A leaves. How long will B take to finish the remaining work ?

- (a) 6 days
- (b) 8 days
- (c) 10 days
- (d) 13 days

30. A train is travelling at the rate of 45km/hr. How many seconds, it will take to cover a distance of $\frac{4}{5}$ km ?

- (a) 36
- (b) 64
- (c) 90
- (d) 120

31. A person travels 600 km by train at 80km/hr, 800 km by ship at 40 km/hr. 500 km by aeroplane at 400 km/hr and 100 km by car at 50km/hr. What is the average speed for the entire distance ?

- (a) $65\frac{5}{123}$ km./hr.
- (b) 60 km./hr.
- (c) $60\frac{5}{123}$ km./hr.
- (d) 62 km./hr.

32. A train 100m long is running at the speed of 30 km/ hr. The time (in second) in which it will pass a man standing near the railway line is

- (a) 10
- (b) 11
- (c) 12
- (d) 15

33. Two men are standing on opposite ends of a bridge of 1200 metres long. If they walk towards each other at the rate of 5m/minute and 10m/minute respectively, in how much time will they meet each other ?

- (a) 60 minutes
- (b) 80 minutes

- (c) 85 minutes
- (d) 90 minutes

34. An aeroplane covers a certain distance at a speed of 240 km. per hour in 5 hours. To cover the same distance in $12/3$ hours, it must travel at a speed of

- (a) 300 km./hr.
- (b) 360 km./hr.
- (c) 600 km./hr.
- (d) 720 km./hr.

Directions: A survey of film watching habits of people living in five cities P, Q, R, S and T is summarised below in a table. The column I in the table gives percentage of film-watchers in each city who see only one film a week. The column II gives the total number of film-watchers who see two or more films per week.

**Read the table and answer the questions from
135 to 139**

City	I	II
P	60	24,000
Q	20	30,000
R	85	24,000
S	55	27,000
T	75	80,000

35. How many film watchers in city R see only one film in a week ?

- (a) 24850
- (b) 36000
- (c) 136000
- (d) 160000

36. Which city has the highest number of film watchers who see only one film in a week?

- (a) P
- (b) R
- (c) S
- (d) T

37. A city with the lowest number of filmwatchers is

- (a) P
- (b) Q
- (c) R
- (d) S

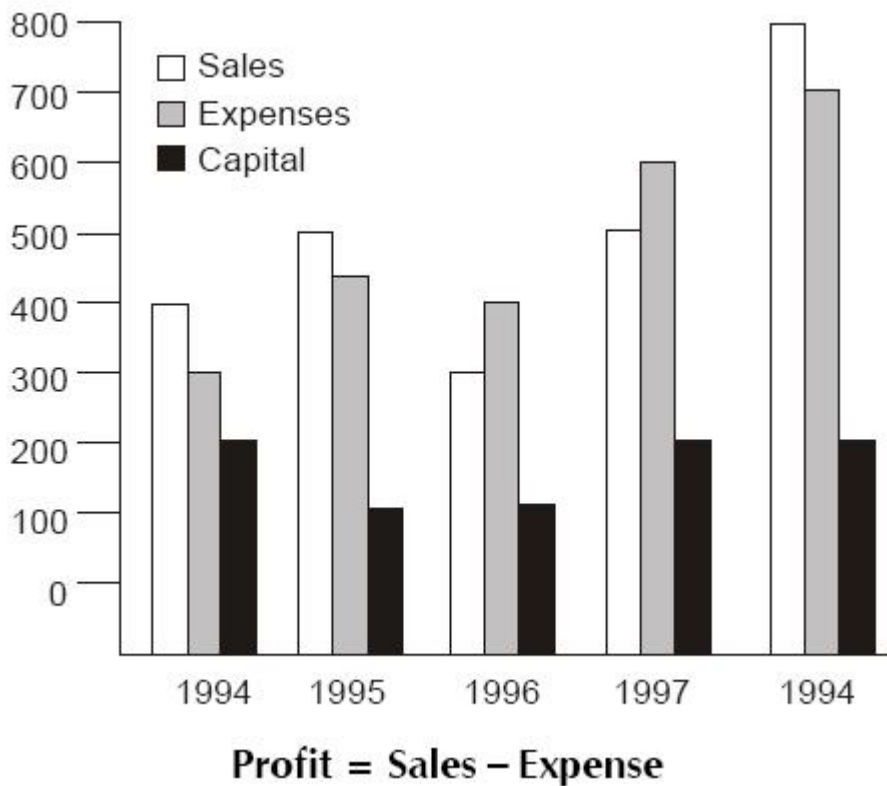
38. The highest number of filmwatchers in any given city is

- (a) Q
- (b) R
- (c) S
- (d) T

39. The total number of all filmwatchers in the five cities who see only one film in a week is

- (a) 113000
- (b) 425200
- (c) 452500
- (d) 500000

Directions: The following graph gives Sales, Expense and Capital of a company for a period of five years 1994 to 1998. .Read the graph and answer the questions 140 to 144.





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40. What has been the simple average growth rate per annum of expense between 1994 and 1998?

- (a) 25%
- (b) 33 3
- (c) 40%
- (d) 130%

41. In which year was the Sales to Expense ratio the lowest?

- (a) 1994
- (b) 1996
- (c) 1997
- (d) 1998

42. What was the average per annum increase in sales (in Rs. cr.) from 1994 to 1998 ?

- (a) 50
- (b) 60
- (c) 80
- (d) 100

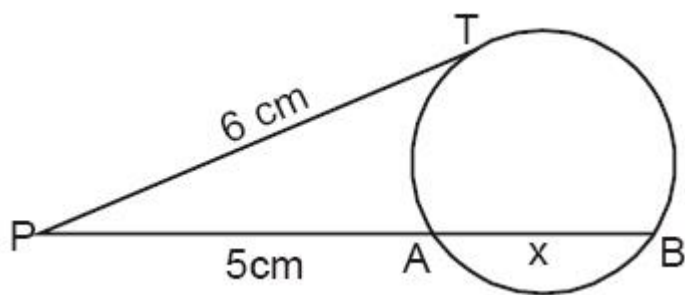
43. In which year was the ratio of profits to capital the highest?

- (a) 1998
- (b) 1995
- (c) 1996
- (d) 1997

44. In which year was the ratio of sales to capital the lowest ?

- (a) 1998
- (b) 1997
- (c) 1996
- (d) 1995

45. Find x in the adjoining figure



- (a) 1.6 cm
- (b) 2.2 cm
- (c) 3 cm
- (d) 2.6 cm

46.

. In the given figure, AB, CD, EF are concurrent straight lines which pass through O . If $\angle AOE = 90^\circ$ and $x : y = 21$, find $\angle DOB$ and $\angle COF$. General english.

- (a) $50^\circ, 100^\circ$
- (b) $30^\circ, 60^\circ$
- (c) $45^\circ, 90^\circ$
- (d) $25^\circ, 50^\circ$

47. Find the intercepts made by the line $2x - 3y + 6 = 0$ with the coordinate axes.

- (a) 3, 2
- (b) -3, 2
- (c) -3, -2
- (d) None of these

48. The equation of the line whose intercept on the axes are 4 and 3 is

- (a) $3x - 4y = 10$
- (b) $3x + 4y = 12$
- (c) $-3x + 4y = 5$
- (d) None of these

49. Which of the following expression is a monomial?

- (a) x
- (b) $-y^2$
- (c) $2x^3$
- (d) All the three

50.

If $f(x) = x^4 - 2x^3 + 2x^2 - x - 1$, find $f\left(-\frac{1}{2}\right)$

(a) $\frac{9}{16}$

(b) $\frac{5}{16}$

(c) $\frac{3}{16}$

(d) $\frac{21}{16}$



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