

Questions
100 MCQs

Marks
100 (1 each)

Time
2 hours

Negative marking
None

Part	Section	Questions	Q. No.
Component I	Data Interpretation and Problem Solving	25	1 to 25
Component II	Numerical Ability	25	26 to 50
Component III	Verbal Ability / Reasoning	25	51 to 75
Component IV	General English and Comprehension	25	76 to 100

Instructions

1. This paper has 100 multiple-choice questions in four components of 25 questions each: Data Interpretation and Problem Solving, Numerical Ability, Verbal Ability/Reasoning, and General English and Comprehension.
2. Each question has four options (A, B, C, D). Choose the one correct answer. Each question carries 1 mark.
3. There is no negative marking for wrong answers, so attempt every question.
4. Time allowed is 2 hours. Calculators are not allowed (log tables are permitted in the actual test), and answers are marked on an OMR sheet.
5. The answer key and solutions are at the end. Check them only after you finish.

This is an AglaSem practice paper written on the official PU-MBA (CDOE) Entrance Test scheme (2026 prospectus: 100 MCQs, four components of 25, 2 hours, no negative marking, English medium). It is not an official Panjab University paper, and its questions are not taken from any PU paper. All data in the Data Interpretation sets are made up for practice.

Component I

Data Interpretation and Problem Solving

The table shows the sales (in Rs crore) of five companies over three years. Study it and answer the next seven questions.

Company	2022	2023	2024
P	120	150	180
Q	200	210	230
R	80	100	125
S	160	176	204
T	140	168	150

1. By what percentage did the sales of company R increase in 2023 over 2022?
(A) 30% (B) 25%
(C) 22.5% (D) 20%
2. What were the total sales of the five companies in 2024?
(A) Rs 899 crore (B) Rs 869 crore
(C) Rs 889 crore (D) Rs 879 crore

3. Which company showed the highest percentage growth in sales from 2022 to 2024?
(A) S (B) Q
(C) R (D) P
4. What were the average annual sales of company S over the three years?
(A) Rs 184 crore (B) Rs 178 crore
(C) Rs 176 crore (D) Rs 180 crore
5. In 2023, the sales of T were what percentage of the sales of Q?
(A) 75% (B) 84%
(C) 125% (D) 80%
6. What is the ratio of P's sales in 2022 to S's sales in 2023?
(A) 15 : 23 (B) 3 : 4
(C) 15 : 22 (D) 5 : 7
7. In how many of the five companies did sales fall in any year compared with the previous year?
(A) 1 (B) 0
(C) 2 (D) 3

A family's monthly income of Rs 60,000 is spent as shown below (a pie chart drawn from this table would show each head as a sector). Answer the next five questions.

Head	Share of income (%)
Food	30
Rent	25
Education	15
Transport	10
Savings	12
Others	8

8. How much does the family spend on education each month?
(A) Rs 6,000 (B) Rs 10,000
(C) Rs 9,000 (D) Rs 7,200
9. In a pie chart of this budget, what would be the central angle of the sector for rent?
(A) 75° (B) 90°
(C) 120° (D) 100°
10. By how much does the monthly expenditure on food exceed that on transport?
(A) Rs 12,000 (B) Rs 10,000
(C) Rs 15,000 (D) Rs 18,000
11. If the family's income rises by 10% and it saves the same percentage of income, what will its monthly savings be?
(A) Rs 7,200 (B) Rs 7,920
(C) Rs 6,600 (D) Rs 8,200
12. What is the ratio of the expenditure on education to the savings?
(A) 5 : 4 (B) 4 : 5
(C) 6 : 5 (D) 3 : 2

The table (data of a bar chart) shows the number of students, in hundreds, admitted to three courses of a university. Answer the next six questions.

Year	MBA	MCA	M.Com
2020	12	8	10
2021	15	9	12
2022	18	12	12
2023	16	15	14
2024	20	17	18

13. What was the total number of students admitted to MBA over the five years?
 (A) 7,900 (B) 8,000
 (C) 8,400 (D) 8,100
14. In which year was the percentage increase in total admissions over the previous year the highest?
 (A) 2024 (B) 2022
 (C) 2023 (D) 2021
15. MCA admissions in 2023 were what percentage more than MCA admissions in 2021?
 (A) 40% (B) 50%
 (C) 66.67% (D) 60%
16. What was the average number of M.Com admissions per year over the five years?
 (A) 1,300 (B) 1,320
 (C) 1,350 (D) 1,280
17. In 2022, MBA admissions formed approximately what percentage of the total admissions?
 (A) 42.9% (B) 40.0%
 (C) 45.5% (D) 38.6%
18. What is the ratio of total MCA admissions to total M.Com admissions over the five years?
 (A) 61 : 66 (B) 61 : 64
 (C) 66 : 61 (D) 59 : 66

Read the information and answer the next three questions.

In a survey of 200 people in a town, 120 read newspaper A, 90 read newspaper B and 40 read both newspapers.

19. How many of the people surveyed read neither newspaper?
 (A) 10 (B) 40
 (C) 70 (D) 30
20. How many people read only newspaper A?
 (A) 40 (B) 120
 (C) 80 (D) 50
21. What percentage of the people surveyed read exactly one newspaper?
 (A) 70% (B) 60%
 (C) 85% (D) 65%

Read the information and answer the next two questions.

A firm's revenue was Rs 50 lakh and its total cost was Rs 40 lakh in 2023. In 2024, revenue grew by 20% and total cost grew by 10%. Profit = Revenue – Cost.

22. What was the firm's profit in 2024?
(A) Rs 16 lakh (B) Rs 14 lakh
(C) Rs 20 lakh (D) Rs 10 lakh
23. By what percentage did the firm's profit increase from 2023 to 2024?
(A) 60% (B) 6%
(C) 30% (D) 10%

A student scored the following marks (out of 100) in five subjects: 72, 85, 64, 90 and 79. Answer the next two questions.

24. What are the student's average marks?
(A) 76 (B) 78
(C) 79 (D) 80
25. What is the median of the student's marks?
(A) 72 (B) 79
(C) 78 (D) 85

Component II

Numerical Ability

26. The circumference of a circle is 88 cm. Its area is (take $\pi = 22/7$):
(A) 1232 cm² (B) 154 cm²
(C) 308 cm² (D) 616 cm²
27. How many terms are there in the sequence 3, 7, 11, 15, ..., 99?
(A) 24 (B) 25
(C) 26 (D) 23
28. By selling an article for Rs 450, a man loses 10%. At what price should he sell it to gain 20%?
(A) Rs 585 (B) Rs 560
(C) Rs 600 (D) Rs 540
29. The sum of the interior angles of a polygon is three times the sum of its exterior angles. The polygon is a:
(A) Decagon (B) Hexagon
(C) Nonagon (D) Octagon
30. A 60-litre mixture contains milk and water in the ratio 2 : 1. How much water must be added to make the ratio 1 : 1?
(A) 15 litres (B) 30 litres
(C) 10 litres (D) 20 litres
31. A invests Rs 5,000 for 12 months and B invests Rs 8,000 for 6 months in a business. Out of a total profit of Rs 13,500, A's share is:
(A) Rs 8,000 (B) Rs 6,750
(C) Rs 6,000 (D) Rs 7,500

32. Pipe A can fill a tank in 12 hours and pipe B in 15 hours, while pipe C can empty the full tank in 20 hours. If all three are opened together, the empty tank is filled in:
 (A) 12 hours (B) 9 hours
 (C) 8 hours (D) 10 hours
33. If two-thirds of three-fifths of a number is 48, the number is:
 (A) 144 (B) 120
 (C) 100 (D) 80
34. The volume of a cylinder of radius 7 cm and height 10 cm is (take $\pi = 22/7$):
 (A) 1540 cm³ (B) 1440 cm³
 (C) 770 cm³ (D) 2200 cm³
35. The simple interest on Rs 8,000 at 6% per annum for 3 years is:
 (A) Rs 1,280 (B) Rs 1,440
 (C) Rs 1,520 (D) Rs 1,600
36. The compound interest on Rs 10,000 at 10% per annum for 2 years, compounded annually, is:
 (A) Rs 2,010 (B) Rs 2,100
 (C) Rs 2,000 (D) Rs 2,200
37. The price of sugar rises by 25%. By what percentage must a family reduce its consumption so that its expenditure on sugar stays the same?
 (A) 15% (B) 20%
 (C) 25% (D) 30%
38. If $A : B = 2 : 3$ and $B : C = 4 : 5$, then $A : B : C$ is:
 (A) 2 : 3 : 5 (B) 8 : 12 : 10
 (C) 8 : 12 : 15 (D) 4 : 6 : 5
39. The average of 10 numbers was found to be 40. Later it was found that 58 had been wrongly read as 85. The correct average is:
 (A) 39.7 (B) 37.3
 (C) 37.5 (D) 42.7
40. A can do a piece of work in 10 days and B can do it in 15 days. Working together, they will finish it in:
 (A) 6 days (B) 12.5 days
 (C) 5 days (D) 8 days
41. A train 150 m long runs at 54 km/h. How long does it take to pass a signal post?
 (A) 10 seconds (B) 15 seconds
 (C) 9 seconds (D) 12 seconds
42. A boat goes downstream at 20 km/h and upstream at 12 km/h. The speed of the stream is:
 (A) 16 km/h (B) 4 km/h
 (C) 8 km/h (D) 6 km/h
43. The derivative of 5^x with respect to x is:
 (A) $5^x / \log_e 5$ (B) 5^x
 (C) $5^x \log_e 5$ (D) $x \cdot 5^{x-1}$
44. The value of $\log_{10} 1000 + \log_2 32$ is:
 (A) 9 (B) 6
 (C) 15 (D) 8

45. The product of two numbers is 2,160 and their HCF is 12. Their LCM is:
(A) 160 (B) 180
(C) 120 (D) 216
46. Two fair dice are thrown together. The probability that the sum of the numbers is 7 is:
(A) $\frac{1}{6}$ (B) $\frac{1}{12}$
(C) $\frac{7}{36}$ (D) $\frac{1}{9}$
47. In how many different ways can the letters of the word ORDER be arranged?
(A) 48 (B) 120
(C) 60 (D) 24
48. The sum of the first 15 odd natural numbers is:
(A) 196 (B) 256
(C) 240 (D) 225
49. An article marked at Rs 1,200 is sold after two successive discounts of 10% and 5%. The selling price is:
(A) Rs 1,080 (B) Rs 1,026
(C) Rs 1,032 (D) Rs 1,020
50. The present ages of A and B are in the ratio 4 : 5. After 5 years, the ratio will be 5 : 6. What is A's present age?
(A) 20 years (B) 16 years
(C) 24 years (D) 25 years

Component III

Verbal Ability / Reasoning

51. Statement: "The report is either in the cabinet or on the desk. It is not on the desk." Which conclusion follows?
(A) The report is in neither place.
(B) The report has been lost.
(C) The report is on the desk.
(D) The report is in the cabinet.
52. Choose the pair whose relationship is most similar to GLUTTON : FOOD.
(A) Writer : Pen (B) Drunkard : Liquor
(C) Miser : Charity (D) Patient : Doctor
53. Choose the pair whose relationship is most similar to TRANSIENT : PERMANENT.
(A) Swift : Rapid (B) Brave : Valiant
(C) Calm : Serene (D) Scarce : Abundant
54. Which word is closest in meaning to PRUDENT?
(A) Sensible (B) Timid
(C) Arrogant (D) Reckless
55. What number comes next in the series: 2, 6, 12, 20, 30, ?
(A) 36 (B) 44
(C) 40 (D) 42

56. What number comes next in the series: 5, 11, 23, 47, ?
(A) 93 (B) 94
(C) 95 (D) 96
57. In a certain code, MANAGER is written as NBOBHFS. How is MARKET written in that code?
(A) LZQJDS (B) NCSLFU
(C) NBSKFU (D) NBSLFU
58. In a certain code, PLANET is written as TENALP. How is MARKET written in that code?
(A) TKERAM (B) TEKARM
(C) TEKRAM (D) MARTEK
59. Which of the following groups is best represented by three circles, one lying wholly inside the second, which lies wholly inside the third?
(A) Pen, Pencil, Eraser (B) Doctor, Woman, Mother
(C) Dog, Cat, Animal (D) Rose, Flower, Plant

Look at the following set of data and answer the next three questions.

12, 18, 25, 18, 30, 22, 18, 27

60. The difference between the largest and the smallest observations (the range) is:
(A) 12 (B) 18
(C) 15 (D) 20
61. The mode of the data is:
(A) 20 (B) 22
(C) 25 (D) 18
62. The median of the data is:
(A) 22 (B) 18
(C) 21 (D) 20

Read the information and answer the next two questions.

Five friends T, Q, P, R and S sit in a row facing North. T sits at the extreme left end and S at the extreme right end. R sits immediately to the right of P. Q sits between T and P.

63. Who sits in the middle of the row?
(A) Q (B) P
(C) T (D) R
64. Who sits second from the right end?
(A) S (B) P
(C) R (D) Q
65. A man facing East turns 90° clockwise and then 135° anticlockwise. Which direction is he facing now?
(A) North-East (B) South-East
(C) North (D) North-West
66. A is the brother of B. B is the daughter of C. D is the father of C. How is A related to D?
(A) Son-in-law (B) Grandson
(C) Nephew (D) Son

67. In a class, Ravi is 9th from the top and 31st from the bottom. How many students are there in the class?
(A) 39 (B) 41
(C) 38 (D) 40
68. Which one of the following does not belong to the group?
(A) Square (B) Triangle
(C) Rhombus (D) Rectangle
69. If today is Wednesday, what day of the week will it be after 75 days?
(A) Tuesday (B) Sunday
(C) Monday (D) Friday
70. Statement: An advertisement says, "Use SunShield cream to protect your skin this summer."
Assumptions:
I. People want to protect their skin in summer.
II. All other skin creams are useless.
Which assumption is implicit?
(A) Neither I nor II is implicit (B) Both I and II are implicit
(C) Only I is implicit (D) Only II is implicit
71. Statements: All managers are graduates. No graduate is illiterate.
Conclusions:
I. No manager is illiterate.
II. Some graduates are managers.
(A) Neither I nor II follows (B) Only I follows
(C) Both I and II follow (D) Only II follows
72. ACE : BDF :: GIK : ?
(A) HJL (B) JLN
(C) HKM (D) HIJ
73. What is the angle between the hour hand and the minute hand of a clock at 4 o'clock?
(A) 150° (B) 90°
(C) 120° (D) 100°
74. Which of the following words cannot be formed from the letters of the word MANAGEMENT?
(A) MAGNET (B) AGENT
(C) TEAM (D) GARMENT
75. If the words Manage, Manner, Mango, Mantra and Manifest are arranged in dictionary order, which word comes third?
(A) Mango (B) Mantra
(C) Manifest (D) Manner

General English and Comprehension

Read the passage carefully and answer the next seven questions.

Most organisations say they value feedback, yet few are built to hear it. A junior employee who notices a flaw in a product must usually pass the message through several layers of supervisors, each of whom may soften it, delay it or quietly drop it. By the time the warning reaches someone with the power to act, the problem has often grown expensive. The difficulty is rarely that leaders do not want to know; it is that the path along which bad news travels is long, and every step on it carries a small personal risk for the messenger.

Good managers shorten that path. They walk the shop floor, sit in on customer calls and ask open questions rather than ones that invite a polite 'yes'. More importantly, they react to unwelcome news with curiosity instead of irritation. An employee who is thanked for reporting a mistake will report the next one sooner; one who is blamed will learn to stay silent. Over time these small reactions add up to a culture, and culture decides whether problems surface early, when they are cheap to fix, or late, when they are not.

Listening, however, is not the same as agreeing. A manager who acts on every suggestion soon loses direction, and a team that sees its ideas adopted without scrutiny may stop thinking carefully about them. The skill lies in taking each view seriously, testing it against evidence and explaining the final decision, especially when it goes against the person who raised the concern. People can accept being overruled; what they resent is being ignored.

There is also a practical limit. A manager cannot personally hear every voice in a large firm, so the habit must be built into systems: anonymous surveys, regular reviews of complaints and clear routes for raising concerns without fear. Systems alone, though, cannot create trust. They work only when employees see that what they report leads to visible action.

76. Which of the following best states the main idea of the passage?
- (A) Bad news should reach decision-makers quickly and safely
 - (B) Managers should accept every suggestion made by their employees
 - (C) Anonymous surveys are the best way to run a large firm
 - (D) Junior employees are usually unwilling to notice product flaws
77. According to the passage, why does a warning often reach leaders too late?
- (A) Leaders refuse to read any report sent up by junior staff
 - (B) Customers complain only after a product fails
 - (C) Employees do not notice flaws in the products
 - (D) It must pass many layers, each risky for the messenger
78. According to the passage, an employee who is thanked for reporting a mistake will:
- (A) report the next mistake more quickly
 - (B) stop looking for further mistakes
 - (C) report mistakes only to customers
 - (D) expect a reward for every report
79. What is the author's view about listening to employees?
- (A) Managers should overrule employees to keep control
 - (B) Listening is the same thing as agreeing
 - (C) Views should be tested on evidence and decisions explained
 - (D) Managers should act at once on every suggestion that they receive

80. According to the passage, what do people resent?
(A) Being overruled (B) Being ignored
(C) Being thanked in public (D) Being asked open questions
81. The word 'scrutiny', as used in the passage, means:
(A) quick and willing approval of an idea
(B) public praise and reward
(C) polite but firm refusal
(D) careful and critical examination
82. Which of the following is NOT supported by the passage?
(A) Anonymous surveys by themselves are enough to build trust
(B) In a large firm, listening must be built into systems
(C) Problems found early are usually cheaper to fix
(D) A manager's reactions to bad news shape the culture of a team
83. Choose the sentence in which the word COMPLEMENT is used INCORRECTLY.
(A) The red scarf complements her dress well.
(B) Good service is a complement to good food.
(C) She complemented him on his excellent speech.
(D) A full complement of trained staff was on duty.
84. Fill in the blank: The manager insisted _____ a written report.
(A) on (B) for
(C) at (D) about
85. Fill in the blank: Hardly had he reached the office _____ the meeting began.
(A) when (B) then
(C) that (D) than
86. Fill in the blank: He is senior _____ me by two years.
(A) to (B) over
(C) from (D) than
87. Choose the best replacement for the part in capitals, or 'No improvement': He is one of the best managers THAT HAS WORKED here.
(A) that have worked (B) that has been working
(C) No improvement (D) who has worked
88. Find the part of the sentence that has an error: Each of the employees / have been given / a new laptop. / No error
(A) Each of the employees (B) have been given
(C) a new laptop. (D) No error
89. Find the part of the sentence that has an error: He did not knew / that the meeting / had been cancelled. / No error
(A) He did not knew (B) that the meeting
(C) had been cancelled. (D) No error
90. Choose the word closest in meaning to LUCRATIVE.
(A) Expensive (B) Profitable
(C) Generous (D) Attractive

91. Choose the word closest in meaning to CANDID.
(A) Polite (B) Cautious
(C) Frank (D) Secretive
92. Choose the word opposite in meaning to OPTIMISTIC.
(A) Hopeful (B) Realistic
(C) Enthusiastic (D) Pessimistic
93. Choose the word opposite in meaning to SCARCITY.
(A) Shortage (B) Rarity
(C) Insufficiency (D) Abundance
94. The idiom 'to cut corners' means:
(A) to reduce the size of a document
(B) to take the shortest road while driving through a city
(C) to skip steps to save time or money
(D) to avoid meeting difficult people
95. The idiom 'to see eye to eye' means:
(A) to meet face to face (B) to stare at someone
(C) to agree fully (D) to be equally tall
96. A person who sets up and runs a business, taking on the financial risk, is called:
(A) an auditor (B) a company director
(C) an entrepreneur (D) a shareholder
97. The amount paid regularly by a policyholder to an insurance company is called the:
(A) claim (B) premium
(C) bonus (D) dividend
98. Choose the correctly spelt word.
(A) Entreprenuer (B) Enterpreneur
(C) Entrepreneur (D) Entrepeneur
99. Arrange the sentences in a meaningful order:
P. Within a year, it had become the market leader.
Q. A small firm launched a low-cost water filter.
R. It fixed the problem within weeks.
S. Early buyers complained that it leaked.
(A) QRSP (B) QSRP
(C) QSPR (D) SQRP
100. Choose the correct passive form: The board approved the proposal.
(A) The proposal was approved by the board.
(B) The proposal had approved by the board.
(C) The proposal has been approved by the board.
(D) The proposal is approved by the board.

Answer Key

1	B	2	C	3	C	4	D	5	D	6	C	7	A	8	C	9	B	10	A
11	B	12	A	13	D	14	A	15	C	16	B	17	A	18	A	19	D	20	C
21	D	22	A	23	A	24	B	25	B	26	D	27	B	28	C	29	D	30	D
31	D	32	D	33	B	34	A	35	B	36	B	37	B	38	C	39	B	40	A
41	A	42	B	43	C	44	D	45	B	46	A	47	C	48	D	49	B	50	A
51	D	52	B	53	D	54	A	55	D	56	C	57	D	58	C	59	D	60	B
61	D	62	D	63	B	64	C	65	A	66	B	67	A	68	B	69	C	70	C
71	C	72	A	73	C	74	D	75	C	76	A	77	D	78	A	79	C	80	B
81	D	82	A	83	C	84	A	85	A	86	A	87	A	88	B	89	A	90	B
91	C	92	D	93	D	94	C	95	C	96	C	97	B	98	C	99	B	100	A

Solutions

Data Interpretation and Problem Solving

- (B)** $(100 - 80)/80 \times 100 = 25\%$.
- (C)** $180 + 230 + 125 + 204 + 150 = 889$.
- (C)** Growth: P $60/120 = 50\%$, Q $30/200 = 15\%$, R $45/80 = 56.25\%$, S $44/160 = 27.5\%$, T $10/140 \approx 7\%$. R is highest.
- (D)** $(160 + 176 + 204)/3 = 540/3 = 180$.
- (D)** $168/210 \times 100 = 80\%$.
- (C)** $120 : 176$; dividing by 8 gives $15 : 22$.
- (A)** Only T's sales fell (168 in 2023 to 150 in 2024); all other companies grew every year.
- (C)** 15% of $60,000 = 9,000$.
- (B)** 25% of $360^\circ = 90^\circ$.
- (A)** $(30 - 10)\%$ of $60,000 = 20\%$ of $60,000 = 12,000$.
- (B)** New income = $66,000$; savings = 12% of $66,000 = 7,920$.
- (A)** $15 : 12 = 5 : 4$.
- (D)** $12 + 15 + 18 + 16 + 20 = 81$ hundred = $8,100$.
- (A)** Totals: 30, 36, 42, 45, 55 hundred. Increases: 2021 20%, 2022 16.7%, 2023 7.1%, 2024 22.2%. Highest in 2024.
- (C)** $(15 - 9)/9 \times 100 = 66.67\%$.
- (B)** $(10 + 12 + 12 + 14 + 18)/5 = 66/5 = 13.2$ hundred = $1,320$.
- (A)** $18/(18 + 12 + 12) = 18/42 \approx 42.9\%$.
- (A)** MCA: $8 + 9 + 12 + 15 + 17 = 61$. M.Com: $10 + 12 + 12 + 14 + 18 = 66$.
- (D)** Readers of at least one = $120 + 90 - 40 = 170$, so neither = $200 - 170 = 30$.
- (C)** Only A = $120 - 40 = 80$.
- (D)** Only A = 80 and only B = $90 - 40 = 50$, so 130 of $200 = 65\%$.
- (A)** Revenue = 60 lakh and cost = 44 lakh, so profit = 16 lakh.
- (A)** Profit rose from 10 lakh to 16 lakh: $6/10 \times 100 = 60\%$.
- (B)** $(72 + 85 + 64 + 90 + 79)/5 = 390/5 = 78$.
- (B)** In order: 64, 72, 79, 85, 90. The middle value is 79.

Numerical Ability

26. (D) $2\pi r = 88$ gives $r = 14$ cm; area = $(22/7) \times 14 \times 14 = 616$ cm².
27. (B) $n = (99 - 3)/4 + 1 = 24 + 1 = 25$.
28. (C) Cost price = $450/0.9 = 500$; for 20% gain, SP = $500 \times 1.2 = 600$.
29. (D) $(n - 2) \times 180^\circ = 3 \times 360^\circ = 1080^\circ$, so $n - 2 = 6$ and $n = 8$.
30. (D) Milk = 40 L, water = 20 L. For 1 : 1, water must be 40 L, so add 20 L.
31. (D) Ratio = $5,000 \times 12 : 8,000 \times 6 = 60,000 : 48,000 = 5 : 4$. A gets $5/9 \times 13,500 = 7,500$.
32. (D) $1/12 + 1/15 - 1/20 = (5 + 4 - 3)/60 = 6/60 = 1/10$, so 10 hours.
33. (B) $(2/3) \times (3/5) \times x = (2/5)x = 48$, so $x = 120$.
34. (A) $V = \pi r^2 h = (22/7) \times 49 \times 10 = 1540$ cm³.
35. (B) SI = $8,000 \times 6 \times 3/100 = 1,440$.
36. (B) Amount = $10,000 \times 1.1^2 = 12,100$, so CI = 2,100.
37. (B) Reduction = $25/(100 + 25) \times 100 = 20\%$.
38. (C) Make B common: A : B = 8 : 12 and B : C = 12 : 15, so A : B : C = 8 : 12 : 15.
39. (B) Correct total = $400 - 85 + 58 = 373$, so the average = 37.3.
40. (A) $1/10 + 1/15 = 5/30 = 1/6$, so 6 days.
41. (A) 54 km/h = 15 m/s, so time = $150/15 = 10$ s.
42. (B) Stream speed = $(20 - 12)/2 = 4$ km/h (the boat's speed in still water is 16 km/h).
43. (C) $d/dx (a^x) = a^x \log_e a$, so $d/dx (5^x) = 5^x \log_e 5$.
44. (D) $\log_{10} 1000 = 3$ and $\log_2 32 = 5$, so the sum is 8.
45. (B) HCF $\times$ LCM = product, so LCM = $2,160/12 = 180$.
46. (A) Favourable pairs: (1,6), (2,5), (3,4), (4,3), (5,2), (6,1) = 6 of 36, that is 1/6.
47. (C) 5 letters with R repeated twice: $5!/2! = 120/2 = 60$.
48. (D) The sum of the first n odd numbers is n^2 , so $15^2 = 225$.
49. (B) $1,200 \times 0.90 = 1,080$; $1,080 \times 0.95 = 1,026$.
50. (A) $(4x + 5)/(5x + 5) = 5/6$ gives $24x + 30 = 25x + 25$, so $x = 5$ and A = 20 years.

Verbal Ability / Reasoning

51. (D) Of two alternatives one is ruled out, so the other must be true.
52. (B) A glutton consumes food to excess; a drunkard consumes liquor to excess.
53. (D) Transient and permanent are opposites, as are scarce and abundant; the other pairs are synonyms.
54. (A) Prudent means acting with care and good judgement, that is, sensible.
55. (D) The differences are 4, 6, 8, 10, 12, so the next term is $30 + 12 = 42$ ($n \times (n + 1)$).
56. (C) Each term is twice the previous plus 1: $47 \times 2 + 1 = 95$.
57. (D) Each letter moves one place forward: M $\rightarrow$ N, A $\rightarrow$ B, R $\rightarrow$ S, K $\rightarrow$ L, E $\rightarrow$ F, T $\rightarrow$ U.
58. (C) The word is written in reverse order: MARKET $\rightarrow$ TEKRAM.
59. (D) Every rose is a flower and every flower is a plant. Dog and cat are separate; pen, pencil and eraser are separate; doctors and mothers only overlap.
60. (B) Largest 30 – smallest 12 = 18.
61. (D) 18 occurs three times, more often than any other value.
62. (D) In order: 12, 18, 18, 18, 22, 25, 27, 30. With 8 values, the median = $(18 + 22)/2 = 20$.
63. (B) The order from left is T, Q, P, R, S, so P is in the middle.
64. (C) From the right: S, then R.
65. (A) East $\rightarrow$ 90° clockwise $\rightarrow$ South. From South, 90° anticlockwise is East and another 45° is North-East.

66. (B) A is C's son (B's brother), and C is D's child, so A is D's grandson.
67. (A) Total = $9 + 31 - 1 = 39$.
68. (B) Square, rhombus and rectangle are quadrilaterals; a triangle has three sides.
69. (C) $75 = 10 \times 7 + 5$, so count 5 days on from Wednesday: Monday.
70. (C) The advertisement assumes people want skin protection (I). It does not assume that every other cream is useless (II).
71. (C) Managers lie inside graduates, who are all literate, so I follows. Since all managers are graduates, some graduates are managers, so II follows.
72. (A) Each letter moves one place forward: $G \rightarrow H$, $I \rightarrow J$, $K \rightarrow L$.
73. (C) Each hour mark is 30° apart, and at 4:00 the hands are 4 marks apart: $4 \times 30^\circ = 120^\circ$.
74. (D) MANAGEMENT has no R, so GARMENT cannot be formed; the other three can.
75. (C) Dictionary order: Manage, Mango, Manifest, Manner, Mantra.

General English and Comprehension

76. (A) The passage argues that a short, safe path for bad news, backed by good management and visible action, lets problems be fixed early.
77. (D) The first paragraph says the path is long and every step carries a personal risk for the messenger, so warnings are softened, delayed or dropped.
78. (A) The second paragraph says such an employee 'will report the next one sooner'.
79. (C) The third paragraph says listening is not agreeing: views should be taken seriously, tested against evidence and the final decision explained.
80. (B) 'People can accept being overruled; what they resent is being ignored.'
81. (D) Scrutiny means close, critical examination; ideas adopted 'without scrutiny' are accepted without being tested.
82. (A) The last paragraph says 'Systems alone, though, cannot create trust'; trust needs visible action on what is reported.
83. (C) Praising someone is 'complimented' (compliment). Complement means something that completes or goes well with another thing.
84. (A) The verb 'insist' takes the preposition 'on'.
85. (A) 'Hardly ... when' is the correct pair; 'no sooner' is followed by 'than'.
86. (A) Latin comparatives such as senior, junior, superior and inferior take 'to', not 'than'.
87. (A) The relative pronoun refers to 'managers' (plural), so the verb must be plural: 'that have worked'.
88. (B) 'Each of' takes a singular verb: 'has been given'.
89. (A) After 'did not', the base form is used: 'He did not know'.
90. (B) Lucrative means producing a lot of money, that is, profitable.
91. (C) Candid means open and honest in what one says.
92. (D) An optimistic person expects good outcomes; a pessimistic one expects bad outcomes.
93. (D) Scarcity means shortage; its opposite is abundance.
94. (C) To cut corners is to save time or money by not doing something properly.
95. (C) If two people see eye to eye, they have the same opinion.
96. (C) An entrepreneur organises a business venture and bears its risk.
97. (B) A premium is the regular payment for insurance cover; a claim is a request for payment under the policy.
98. (C) The correct spelling is entrepreneur (entre-pre-neur).
99. (B) The launch (Q), the complaint (S), the fix (R) and then the result (P).
100. (A) Simple past active (approved) becomes 'was approved' in the passive.