FREE MOCK TEST - ANSWER KEY

Field Assistant (Statistics) / Enumerator | 150 questions | 175 marks

* = General Mathematics question carrying 2 marks

Q. No.	Key	Q. No.	Key	Q. No.	Key	Q. No.	Key	Q. No.	Key
1	C	31	A	61	D	91	D	121	A
2*	B	32	D	62	A	92	B	122	A
3	C	33	C	63	A	93	A	123	C
4	B	34*	A	64	B	94*	D	124	A
5*	D	35	B	65*	D	95	D	125	D
6	C	36	C	66	A	96	B	126	D
7	D	37	A	67	C	97	A	127	B
8*	A	38	D	68	A	98	A	128	C
9	D	39	C	69	B	99	A	129	C
10	B	40	B	70	D	100*	D	130*	D
11	D	41	B	71	D	101	B	131*	B
12*	B	42	D	72	D	102	C	132	C
13	D	43	A	73	C	103	B	133	A
14	A	44	C	74	A	104	A	134	B
15*	B	45	C	75	C	105	B	135*	B
16	A	46	A	76	C	106	B	136	C
17	A	47	B	77*	D	107	D	137	D
18	B	48	D	78	D	108*	B	138	A
19	A	49	D	79	A	109	B	139	A
20	C	50	B	80	C	110*	C	140	A
21*	C	51	D	81	B	111	D	141	D
22	B	52	C	82	B	112	B	142	D
23	A	53	B	83	A	113*	B	143	C
24*	A	54*	A	84	D	114	C	144	B
25	C	55	A	85	C	115*	C	145	C
26	C	56	D	86	C	116	D	146	B
27	A	57*	C	87	A	117	C	147*	B
28	C	58	B	88	D	118	C	148	C
29	D	59*	A	89*	B	119	A	149	D
30	D	60	C	90	B	120	B	150*	A

Scoring: Maths +2 correct / -0.50 wrong; others +1 correct / -0.25 wrong.

Multiple options marked: wrong answer, with the applicable deduction.

Unattempted questions: 0.

Current-affairs cut-off: 19 October 2026. Academy practice material.

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ENUMERATOR FREE MOCK TEST - ANSWERS AND EXPLANATIONS

1. (C) Viruses lack the bacterial targets on which such antibiotics act

Antibacterial medicines may act on bacterial cell walls, ribosomes or other bacterial processes. Viruses replicate using host cells and lack these bacterial targets; the issue is not that viruses are larger than bacteria.

2. (B) 63 litres

Milk fractions change from $\frac{5}{7}$ to $\frac{5}{9}$. With water replacement, the retained milk fraction is $(\frac{5}{9})$ divided by $(\frac{5}{7})=\frac{7}{9}$. Hence the removed fraction is $\frac{2}{9}$. Since 14 litres is $\frac{2}{9}$ of the original mixture, original volume = 14 x $\frac{9}{2}$ = 63 litres.

3. (C) The register has been misplaced.

The object the register becomes the subject. Preserve present perfect tense with has been, then add the past participle misplaced; the unknown agent someone need not be expressed.

4. (B) Pressure - pascal

A pascal is one newton per square metre, a unit of force per area. Power is measured in watts, energy in joules, and electric current in amperes, so the other listed pairings are incorrect.

5. (D) 204 square metres

$L+B=\frac{94}{2}=47$ and L-B=7, giving L=27 and B=20. For an outside path of width w, path area = $2w(L+B)+4w^2$. Thus area = 4 x 47+16 = 204 square metres. The $4w^2$ term includes the four corner squares.

6. (C) with

Comply with is the standard verb-preposition combination meaning act according to a rule or request. Comply to, comply for and comply at do not fit this construction.

7. (D) Supervision of elections to municipalities and Panchayats

Panchayat and municipal elections fall within the State Election Commission's constitutional field. This is distinct from elections supervised by the Election Commission of India.

8. (A) 24

Take total work as 60 units: combined rate=$\frac{60}{12}$=5 units/day. Efficiency ratio 3:2 gives A=3 and B=2 units/day. A does 12 units in 4 days; B needs $\frac{60-12}{2}$=24 additional days.

9. (D) Police - State List

The Constitution distributes legislative subjects among Union, State and Concurrent Lists. Of these pairings, Police-State List is correct; defence and banking are Union subjects, and public health is a State subject.

10. (B) Phloem

Phloem carries the products of photosynthesis from source regions, such as leaves, to other parts of the plant. Xylem is chiefly associated with transporting water and mineral nutrients; cork is protective tissue.

11. (D) Comptroller and Auditor General of India

The CAG examines public accounts and expenditure and reports through the constitutional audit framework. Conducting elections, regulating universities and protecting human rights are different institutional functions.

12. (B) 4% higher

Use successive-change shortcut a+b+ab/100 with signed percentages: $-20+30+\frac{-20 \times 30}{100}$ = 4%. Thus the final price is 4% higher. Alternatively, multiply price factors 0.8 x 1.3=1.04.

13. (D) A place for congregational prayer and community interaction

The institution is associated with collective worship and local social interaction. It is not defined as a royal mint, military store or customs office.

14. (A) 5 m

Work out net movement along each axis. East-west: 12 m east minus 8 m west = 4 m east. North-south: 5 m north minus 2 m south = 3 m north. The straight-line displacement is the hypotenuse of a right triangle with sides 4 and 3. Distance = square root of (4^2+3^2) = square root of 25 = 5 m. The total walking distance, 27 m, is not the shortest distance.

15. (B) 527

Use $(a+b)^2=a^2+2ab+b^2$ twice. Since $x+\frac{1}{x}=5$, $x^2+\frac{1}{x^2}=25-2=23$. Therefore $x^4+\frac{1}{x^4}=23^2-2=527$. The middle term is 2 each time because the two terms are reciprocals.

16. (A) Sunday

Count days from 1 March to 1 May: March has 31 days and April has 30, giving 61 days. A week has 7 days; 61=8 x 7+5, so the weekday advances by 5 days. Starting from Tuesday: Wednesday 1, Thursday 2, Friday 3, Saturday 4, Sunday 5. The answer is Sunday.

17. (A) All higher trophic levels dependent on those producers

Producers capture energy, usually from sunlight, and form the base of a food chain. A reduction in producer resources can therefore affect herbivores and the higher consumers that depend on them, rather than only non-living matter.

18. (B) Nutrient enrichment followed by excessive algal growth

Excess nutrients, especially nitrogen and phosphorus, can stimulate algal blooms. Decomposition of the resulting organic matter can consume dissolved oxygen, damaging aquatic life.

19. (A) One centimetre on the map represents half a kilometre on the ground

The scale uses the same unit on both sides: 1 cm represents 50,000 cm. Since 100,000 cm make 1 km, 50,000 cm equals 0.5 km.

20. (C) Converting milk into packaged cheese

The primary sector obtains raw materials, the secondary sector processes or manufactures goods, and the tertiary sector supplies services. Turning milk into cheese is processing, unlike rearing, consultation or transport.

21. (C) 16 hours

For equal distance d downstream and upstream, total time = $\frac{2du}{u^2-v^2}$, where u is still-water speed and v is stream speed. Here $\frac{2 \times 90 \times 12}{12^2-3^2} = \frac{2160}{135} = 16$ hours. Equivalently, $\frac{90}{15}+\frac{90}{9}=16$.

22. (B) Sanju Samson

This question asks for the award covering the whole tournament, not the Player of the Match in the final. ICC recorded Samson as Player of the Tournament after he scored 321 runs in five innings.

23. (A) Italy

Milano is Milan, and Cortina d'Ampezzo is also in Italy. The event name can help recall the host country, but it should not be confused with neighbouring Alpine countries.

24. (A) 10

Take cost=100. After markup and first discount, price = 150 x 0.8 = 120. An 8% profit needs price 108, so the second discount is $\frac{120-108}{120} \times 100 = 10\%$. Successive discounts act on successive prices.

25. (C) Verify the sender independently and avoid opening suspicious files

An unexpected attachment may contain malware or form part of a phishing attempt. Verification should use an independently known bank contact or official channel; renaming a file does not make its contents safe.

26. (C) An increase in colonial land revenue

The key issue was enhanced colonial land-revenue demands on cultivators. Recruitment, navigation restrictions and school closures do not identify the grievance behind this protest.

27. (A) Temporarily storing water and releasing it more slowly

A wetland can hold incoming water temporarily, slowing its passage through a catchment. This storage can moderate downstream flood peaks, although it does not prevent all floods or all rainfall.

28. (C) 3, 2, 4, 1

Before responses can be collected, the questionnaire must be prepared: step 3 comes before step 2. Responses must be collected before they can be analysed: step 2 comes before step 4. Findings can be presented after analysis: step 4 comes before step 1. The order is 3,2,4,1.

29. (D) She said that she had completed the survey.

In this standard reported-speech transformation, the reporting verb said is in the past, so have completed changes to had completed. The speaker's I changes to she, preserving the identity of the person who finished the survey.

30. (D) FAO

FAO stands for Food and Agriculture Organization of the United Nations. ICAO concerns civil aviation, UPU postal cooperation, and IMO maritime matters.

31. (A) Prepared tree bark

The bark was specially processed to form a writing surface. The word manuscript refers to a handwritten text, but the question specifically asks about its traditional material.

32. (D) A violent incident conflicted with Gandhi's insistence on non-violence

The violent incident included the burning of a police station and the deaths of policemen. Gandhi considered such violence incompatible with the non-violent discipline required by the movement.

33. (C) 39

The coding rule is the sum of alphabet positions, not concatenation or multiplication. For CHAIR: C=3, H=8, A=1, I=9 and R=18. Add: 3+8+1+9+18=39. The example TABLE similarly totals 20+1+2+12+5=40.

34. (A) 3 cm

Recognise the 7-24-25 right-triangle triple. For a right triangle, inradius = $\frac{\text{sum of perpendicular sides - hypotenuse}}{2} = \frac{7+24-25}{2}$ = 3 cm. This follows from area = inradius x semiperimeter.

35. (B) Ahead because the Earth rotates from west to east

Places farther east generally reach a given solar position earlier as Earth turns eastward. Hence eastward time zones are generally ahead; the question says generally because civil time-zone boundaries are administrative.

36. (C) Nila

Translate the comparisons into an age order. Nila is older than Lata, who is older than Mira. Omi is younger than Mira. Pori is older than Nila. Combining all statements gives, oldest to youngest: Pori > Nila > Lata > Mira > Omi. The second person in that order is Nila.

37. (A) So excess current through the appliance also passes through and melts the fuse

A series connection puts the fuse in the same current path as the appliance. If excessive current melts the fuse element, the circuit opens and interrupts that current.

38. (D) Essential order details were unclear or missing

Missing codes, quantities or clear dates required clarification.

39. (C) A short template with polite follow-up

The owner tested the second worker's suggestion.

40. (B) To reduce ambiguity about the required date

A full date avoids relative-date confusion such as next Friday.

41. (B) Confirm the final details in one message

They were told to confirm final details together, especially after quantity changes.

42. (D) Staff had also gained experience

Experience was another plausible contributing factor.

43. (A) Customers repeatedly misunderstood it

The owner removed a repeatedly misunderstood field while keeping essential ones.

44. (C) Useful structure can coexist with flexible conversation

The closing paragraph explicitly balances structure with room for questions.

45. (C) Only

Sole reason means the only reason.

46. (A) If its products changed

The final sentence gives product changes as a reason for review.

47. (B) L-band and S-band

The NASA contribution includes L-band radar, while ISRO provides S-band radar. The mission name combines NASA and ISRO; the question tests its radar bands rather than simply the participating agencies.

48. (D) Mechanic : vehicle

Identify the direction of the relationship: an editor works on a manuscript. A mechanic works on a vehicle, which has the same worker-to-object relationship. Vehicle:road is object-to-place, passenger:station is person-to-place, and fuel:engine is material-to-machine.

49. (D) Champaran - grievances of indigo cultivators

Champaran concerned the hardships of indigo cultivators under exploitative arrangements. Kheda concerned revenue relief, Dandi the salt laws, and Swadeshi opposition to the 1905 partition of Bengal.

50. (B) Persons registered in the electoral rolls relating to a village within the Panchayat area

Membership is based on the relevant village electoral roll, rather than election to a Panchayat office or ownership of land. The Gram Sabha is therefore broader than the elected Gram Panchayat.

51. (D) 49

Separate odd and even positions rather than forcing a rule on consecutive terms. Odd positions: 28,35,42,... increase by 7. Even positions: 7,14,21,... also increase by 7. The missing seventh term is in the odd-position sequence, so it is 42+7=49.

52. (C) Both statements together are sufficient, but neither alone is sufficient

Let tens digit be t and units digit be u. Statement I gives t+u=11; many numbers, such as 29,38,47 and 56, satisfy it. I alone is insufficient. Statement II gives t-u=3; numbers such as 30,41,52 and 63 satisfy it. II alone is also insufficient. Together, t+u=11 and t-u=3. Adding gives 2t=14, so t=7 and u=4. Exactly one number, 74, is determined. Both together are sufficient.

53. (B) 100 degrees

The minute hand moves 6 degrees per minute. At 40 minutes it is 40 x 6=240 degrees clockwise from 12. The hour hand is not fixed at 4. Its angle is 4 x 30 + 40 x 0.5 = 120+20 = 140 degrees. The angle between them is |240-140|=100 degrees. This is already less than 180 degrees, so it is the smaller angle.

54. (A) 12

Use deviations from the given mean 21: 3(10-21) + k(20-21) + 5(30-21) = 0. Thus -33-k+45=0, giving k=12. Weighted deviations from the arithmetic mean always sum to zero.

55. (A) Maternal grandfather

Q is the mother of R. S is the father of Q as well as P. Trace the relevant link: S -> daughter Q -> child R. S is therefore the father of R's mother. That relationship is maternal grandfather. P's brother relationship is extra information for this particular question.

56. (D) separate

The correct spelling contains a in the middle: s-e-p-a-r-a-t-e. The distractors alter or duplicate letters; the adjective means distinct or not joined.

57. (C) 26 $\frac{2}{3}$

The modal class is 20-30 (frequency 15). Take the differences from its neighbours: d1=15-9=6 and d2=15-12=3. Mode = $20 + \frac{d1}{d1+d2} \times 10 = 20 + \frac{6}{9} \times 10 = 26\frac{2}{3}$.

58. (B) Speaker of the Lok Sabha

Article 110 concerns Money Bills, and the Speaker's certification identifies such a Bill for the parliamentary procedure. The Rajya Sabha Chairperson, CAG and Election Commission do not provide that certification.

59. (A) 9

Use the 3-4-5 right-triangle ratio: acute θ with $\sin(\theta)=\frac{3}{5}$ gives $\cos(\theta)=\frac{4}{5}$. Then $\frac{1+\cos(\theta)}{1-\cos(\theta)} = \frac{5+4}{5-4} = 9$. Multiplying numerator and denominator by 5 avoids extra fraction work.

60. (C) Growing a legume with nitrogen-fixing root bacteria

Root-nodule bacteria such as Rhizobium can convert atmospheric nitrogen into forms available through the plant-soil system. This biological nitrogen fixation is why legumes are useful in crop rotations.

61. (D) Low-lying flood-prone fields

Deepwater rice is adapted to low-lying fields subject to prolonged or rising floodwater. Dry dunes, snow-covered summits and ocean reefs do not provide the growing environment described.

62. (A) The file cannot yet be approved under this rule

"Approved only if both checks are complete" makes completion of each check necessary for approval. The address check is incomplete. Therefore the condition for approval is not yet met, even though the identity check is complete. The file cannot yet be approved under the rule. Nothing states that the identity check must be repeated or that the applicant has been dishonest.

63. (A) A viable seed

A viable seed has a living embryo capable of growth. Water, oxygen and suitable warmth cannot revive a dead embryo; direct sunlight is not a universal germination requirement.

64. (B) 16

Of 80 applicants, 12 know neither language. Thus 80-12=68 know at least one of the two languages. Adding 46 Assamese-knowers and 38 Bengali-knowers gives 84, but this double-counts those who know both. Number knowing both = 46+38-68=16. Check: Assamese only=30, Bengali only=22, both=16, neither=12; total=80.

65. (D) Rs 21,000

Use capital-months. A:B = (15000 x 4 + 10000 x 8):(10000 x 12) = 140000:120000 = 7:6. A receives $\frac{7}{13}$ of Rs 39000 = Rs 21000. A's reduced capital applies only to the final 8 months.

66. (A) Navi Pillay

The official award announcement names Navanethem, commonly known as Navi, Pillay. The other options are different Nobel Peace laureates, so the year is essential.

67. (C) Rangelands and Pastoralists

The designation draws attention to rangeland ecosystems and the communities whose livelihoods depend on pastoralism. Other themes in the options refer to different international observances or years.

68. (A) A properly connected earth wire and protective device

Earthing provides a low-resistance route for fault current from an exposed metal body. With appropriate protective devices, this helps disconnect a faulty circuit; connecting the body to the live terminal would create a hazard.

69. (B) 24

64 equal small cubes means 4 subdivisions along each edge because $4^3=64$. A small cube has exactly two painted faces only when it lies on an original edge but is not at a corner. Corner cubes have three painted faces. Each of the 12 edges contributes 4-2=2 such cubes. Total=12 x 2=24.

70. (D) Only I

Think of all enumerators as a smaller set inside the set of workers. The workers set has no overlap with minors. Therefore enumerators cannot overlap with minors either: conclusion I follows. Conclusion II reverses the first statement. There could be workers who are not enumerators, so II does not necessarily follow. Only I follows.

71. (D) Dramatic presentation of devotional narratives

Bhaona presents religious narratives through drama, music and performance. Its connection is cultural and devotional, rather than military, revenue-related or agricultural.

72. (D) Rumination

In rumination, partly digested food is brought back from the stomach to the mouth and chewed again. This is a digestive process, not plant photosynthesis or reproduction.

73. (C) Alluvial fan

As the gradient falls at the mountain front, the stream loses carrying power and spreads sediment in a fan shape. An ox-bow lake forms from a cut-off meander; a sea cliff is coastal, and a cirque is glacial.

74. (A) Namrup - fertiliser

Namrup is associated with fertiliser production. Digboi and Duliajan are known for oil-related activity, and Sualkuchi for silk weaving, so the other place-industry pairings are deliberately mismatched.

75. (C) Complete independence

Purna Swaraj means complete independence. The resolution went beyond dominion status, which would have retained a constitutional connection with the British Empire.

76. (C) Castor

Eri silkworms commonly feed on castor leaves. Host-plant associations distinguish different silk-rearing systems; tea, wheat and coconut are not the correct association in this question.

77. (D) 16 seconds

First train speed = $\frac{180+270}{30} = 15 \frac{m}{s}$. Other speed = $36 \times \frac{5}{18} = 10 \frac{m}{s}$. Opposite-direction speeds add, so crossing time = $\frac{180+220}{15+10} = 16$ seconds.

78. (D) Ploughing along contour lines

Contour lines join places of equal height. Ploughing along them helps interrupt downslope runoff, while ploughing directly downhill can channel water and accelerate soil loss.

79. (A) Collective responsibility to the Lok Sabha

A ministry must retain the confidence of the Lok Sabha. A successful no-confidence motion means the Council cannot continue on the basis of that House's confidence; responsibility is collective, not only that of one minister.

80. (C) Capillaries

Their thin walls reduce the distance over which substances must pass between blood and tissues. Larger arteries and veins have thicker, multilayered walls adapted to carrying blood rather than serving as the main exchange surface.

81. (B) The number of borrowed books had fallen

The opening paragraph explicitly links the assumption to falling borrowing.

82. (B) They used reference books inside the library

Reference books could not be borrowed, but students read them on site.

83. (A) Visitors' names

Staff recorded visits without collecting names.

84. (D) Its previous timing clashed with students' classes

Students explained the clash with their classes.

85. (C) Discussion attendance increased

The passage states attendance increased but borrowing did not immediately rise.

86. (C) Different purposes may require different measures of success

The passage argues for several relevant measures, not discarding borrowing.

87. (A) Not covering the whole picture

Incomplete here means partial rather than wholly false.

88. (D) It wanted to review evidence over a longer period

It planned a three-month review rather than an instant declaration.

89. (B) $\frac{2n+1}{3}$

Since weight = value, weighted mean = sum of squares / sum of numbers = $\frac{n(n+1)(2n+1)}{6}$ divided by $\frac{n(n+1)}{2} = \frac{2n+1}{3}$. Cancel n(n+1) and simplify $\frac{2}{6}$ to $\frac{1}{3}$.

90. (B) Each has its own conducting path across the supply

Parallel branches each receive the supply voltage and provide their own current path. Opening one branch does not normally break the circuit in the other branch, unlike a simple series connection.

91. (D) Moist air rises, expands and cools

A mountain barrier forces moist air upward on the windward side. Expansion and cooling encourage condensation, whereas descending air on the leeward side tends to warm and dry.

92. (B) Seasonal unemployment

The worker is willing to work but demand for labour is restricted to particular agricultural seasons. This differs from short-term job-changing unemployment, technological displacement or voluntary withdrawal.

93. (A) South-east

Start facing west. A 90-degree clockwise turn moves west to north. From north, a 45-degree anticlockwise turn gives north-west. A 180-degree turn reverses the direction. The opposite of north-west is south-east.

94. (D) 8 hours 15 minutes

Take tank capacity as 36 units. Inlet rates are 3 and 2 units/hour; outlet rate is 1 unit/hour. The first 3 hours fill 15 units, leaving 21. Net rate afterwards = 3+2-1=4. Total time = $3+\frac{21}{4}$ = 8 hours 15 minutes.

95. (D) 70

Subtract each term from the next: 12-5=7, 22-12=10, 35-22=13, 51-35=16. The gaps increase by 3 each time, so the next gap is 19. The next term is 51+19=70.

96. (B) Brahmaputra valley to Barak valley

Guwahati lies in the Brahmaputra valley, while Silchar lies in the Barak valley of southern Assam. The question asks for the direction of travel between these two regional valleys.

97. (A) 28

When a person's position is counted from both ends, total people = front rank + back rank - 1. Subtract 1 because Bina was counted twice. Original total = 13+18-1=30. Five people leave, reducing the total to 25. Three join behind her, bringing the new total to 25+3=28. Their positions affect her rank but not this total-count calculation.

98. (A) This form requires fewer documents than the old form.

Use fewer with plural countable nouns, such as documents, and less with uncountable quantities, such as information. The correct option uses fewer documents without introducing an incorrect article before information.

99. (A) Spain

The official FIFA report records Spain defeating Argentina 1-0 after extra time in the 2026 final. Argentina was the runner-up, so it should not be selected merely because it won the previous World Cup.

100. (D) 25

Total frequency N=40; $\frac{N}{2}$=20. Cumulative frequencies are 5,12,28,36,40, so the median class is 20-30. Median = $20 + \frac{20-12}{16} \times 10 = 25$. Use the cumulative frequency before the median class, 12.

101. (B) Floodwater loses velocity outside the channel and deposits its sediment load

Water spreading beyond a river channel generally slows, allowing some carried particles to settle. These deposits contribute to the alluvium of the floodplain.

102. (C) Maintain a British force at the state's expense and accept restrictions on external relations

The arrangement placed a British military force in the allied state at the ruler's expense and constrained independent diplomacy. It increased Company influence rather than removing British supervision.

103. (B) Reserve Bank of India

The policy repo rate is a monetary-policy instrument decided through the RBI's Monetary Policy Committee. SEBI regulates securities markets, while ICAR is concerned with agricultural research.

104. (A) NZSJFS

Number the letters in MARKET from 1 to 6. Odd positions move forward one letter; even positions move backward one letter. 1 M becomes N; 2 A becomes Z by the stated wrap-around; 3 R becomes S; 4 K becomes J; 5 E becomes F; 6 T becomes S. Writing the results in the same order gives NZSJFS.

105. (B) Cousins

Kiran and Deepa are sisters. Jaya is Kiran's daughter, and Arun is Deepa's son. Children of two siblings are first cousins. Therefore Jaya and Arun are cousins. Neither is the parent, sibling or aunt of the other under the stated relationships.

106. (B) would have caught

The if-clause describes an unreal past condition: had left. Its result therefore uses would have plus the past participle caught, rather than will catch or would catch.

107. (D) Iron forming rust

Rusting creates iron oxides, substances chemically different from the original iron. Melting ice, boiling water and crushing sugar change state or size without producing a new substance in the sense tested here.

108. (B) 869

N-5 must be a multiple of LCM(6,8,9)=72. Write N=72k+5. Divisibility by 11 requires 6k+5 to be a multiple of 11, giving k=1,12,23,... . k=1 gives only 77; the next value gives N=72 x 12+5=869.

109. (B) A systematic measurement error

Repeatedly close readings show consistency, but a constant offset indicates bias. Calibration can help identify or correct such systematic error; repetition alone does not establish accuracy.

110. (C) Rs 310

13310 = principal x $(1.1)^3$, so principal=10000. At 10% for 3 years, compound growth is 33.1% while simple growth is 30%. Difference = 3.1% of 10000 = Rs 310.

111. (D) Treaty of Yandabo - Phulaguri uprising - Patharughat protest

Chronology means arranging events from earliest to latest. Place the Treaty of Yandabo in 1826 first, Phulaguri in 1861 next and Patharughat in 1894 last.

112. (B) Neutralisation

An acid and a base react in a neutralisation reaction, commonly producing salt and water. Sedimentation separates settling particles, sublimation is a change of state, and electroplating deposits a metal coating.

113. (B) 16 years

Write present ages as 3k and 2k. After 8 years, $\frac{3k+8}{2k+8}=\frac{7}{5}$, so 15k+40=14k+56 and k=16. The age difference is (3-2)k=16 years; it stays unchanged with time.

114. (C) Tamil Nadu

The inscription comprises twelve forts: eleven in Maharashtra and Gingee Fort in Tamil Nadu. Thus the other state asked for is Tamil Nadu, not the principal state Maharashtra.

115. (C) $\frac{10}{21}$

Exactly two children means choosing 2 of 4 children and 2 of 5 adults. Probability = (4C2 x 5C2) / 9C4 = $\frac{6 \times 10}{126} = \frac{10}{21}$. Here nCr counts selections without regard to order.

116. (D) Mandamus

Mandamus is used to compel the performance of a public duty. Habeas corpus concerns unlawful detention, quo warranto the authority to hold a public office, and certiorari the quashing of an order in the appropriate circumstances.

117. (C) Vegetable peels and dry leaves

Vegetable matter and dry leaves are biodegradable and can decompose into compost. Batteries, fluorescent tubes and metal foil should not be mixed into an ordinary household compost pit.

118. (C) Refraction

Light changes speed and direction when crossing between air and water. The submerged portion appears displaced, making the spoon look bent even though its shape has not changed.

119. (A) a

Choose a or an by pronunciation, not the first written letter. One starts with the consonant sound /w/, as in won, so a one-page form is correct.

120. (B) An agreed watering rota

Both planted equal numbers; the second assigned ongoing care.

121. (A) They made deep digging unsafe in some places

The passage states the safety reason explicitly.

122. (A) Its claim that ceremonies never help such projects

Residents said ceremonies can attract volunteers and explain a project.

123. (C) Soil and shade also differed

Other conditions differed, so the rota's isolated effect was not measured.

124. (A) It adopted a care schedule and chose suitable species

The final paragraph names both changes.

125. (D) To make the comparison more meaningful

Equal observation intervals improve comparability without guaranteeing equal results.

126. (D) A schedule allocating turns or duties

A watering rota allocates responsibility for watering at agreed times.

127. (B) Beyond Planting Day: Planning for Survival

The passage stresses continuing care and fair evaluation after planting.

128. (C) Permanent Settlement

Under the Permanent Settlement, the Company's revenue demand was fixed, with zamindars responsible for payment. Ryotwari involved direct settlement with cultivators, while Mahalwari was organised around village or estate units.

129. (C) 374

Calculate the successive differences: 14-11=3; 23-14=9; 50-23=27; 131-50=81. The differences are multiplied by 3 each time: 3,9,27,81. The next difference is 243. Add it to the last term: 131+243=374.

130. (D) 4

Corrected GM = old GM x cube root of (correct value / wrong value) = 2 x cube root of ($\frac{24}{3}$) = 2 x 2 = 4. Replacing a value multiplies the product by $\frac{24}{3}$; for three observations, take the cube root of that factor.

131. (B) 108

The average of the first 15 AP terms is $\frac{600}{15}$=40, which equals the middle (8th) term. From term 8 to term 15 there are 7 gaps: d=$\frac{68-40}{7}$=4. The 25th term = 68+10 x 4=108.

132. (C) Q

There are five positions. S occupies the extreme left and T the extreme right. P,Q,R must be consecutive in that order, because P is immediately left of Q and R immediately right of Q. The only arrangement is S - P - Q - R - T. Position 3, the middle, contains Q.

133. (A) Indian Council of Agricultural Research

ICAR is the Indian Council of Agricultural Research and is the relevant national research organisation for agricultural science. ISRO works in space research, NSD in theatre, and BCAS in civil aviation security.

134. (B) Y

Convert letters to alphabet positions: C=3, G=7, L=12 and R=18. The gaps are +4,+5,+6. The next gap is +7. 18+7=25, and the 25th letter is Y.

135. (B) 28

Midpoints: 5,15,25,35,45,55. Using assumed mean 25, the weighted deviations total -240-180+0+200+340+180 = 300, and total frequency = 100. Mean = 25 + $\frac{300}{100}$ = 28.

136. (C) Clear and easy to understand

A lucid explanation is clear and understandable. The context concerns clarity of expression, not length, concealment or an insulting tone.

137. (D) A citizen challenges discrimination by the State on the ground of religion

Fundamental Rights are enforceable constitutional rights. The nutrition, uniform civil code and cottage-industry examples correspond to Directive Principles, while religious discrimination by the State engages Article 15.

138. (A) Noble Eightfold Path

The Eightfold Path includes right understanding and intention, ethical conduct, and mental cultivation. The other terms concern political or revenue arrangements in Indian history.

139. (A) is

With neither...nor, agreement normally follows the nearer subject. Here supervisor is singular, so is fits; the nearer plural word clerks would matter only if the order were reversed.

140. (A) Endemic

Endemic describes a naturally restricted geographical distribution. It does not mean that a species is domesticated everywhere, artificial, or necessarily extinct.

141. (D) British East India Company and Burma

The treaty concluded the First Anglo-Burmese War. Although it had major consequences for Assam, the Ahom kingdom was not one of the two treaty-making powers listed in the correct answer.

142. (D) Harappan civilisation

Planned streets and covered drainage are prominent features of Harappan urban sites, and seals are another characteristic find. The combination points to the Indus or Harappan civilisation, rather than the later periods in the distractors.

143. (C) Very close to

On the verge of means about to reach a state or very close to doing so. Thus the project is nearly complete, rather than far from completion or opposed to it.

144. (B) 7 : 42

Test the pairs against the rule second number = first number x (first number+1). For 5:30, 5 x 6=30; for 8:72, 8 x 9=72; for 9:90, 9 x 10=90. For 7:42, the rule would require 7 x 8=56. Thus 7:42 is the odd pair.

145. (C) Satra - monastic institution; Borgeet - devotional song

The correct option pairs an institution with its role and a musical form with its character. The other choices substitute unrelated administrative, military or economic meanings.

146. (B) Using the Brahmaputra channel and surrounding terrain for river warfare

The river channel near Guwahati and surrounding hills helped shape the Ahom defensive strategy. A seaport, the Khyber Pass and the Coromandel coast are geographically unrelated to the Saraighat battlefield.

147. (B) 24

By volume conservation, number of spheres = $\frac{r^2 h}{4R^3} = \frac{6^2 \times 9}{4 \times 1.5^3} = 24$. This shortcut comes from dividing cone volume $(\frac{1}{3})$pi r^2 h by sphere volume $(\frac{4}{3})$pi R^3; the common pi/3 cancels.

148. (C) A

B must occupy the slot immediately before C. A must be somewhere before B, and D somewhere after C. With only four slots, the consecutive pair B,C must occupy slots 2 and 3, leaving slot 1 for A and slot 4 for D. Thus the unique order is A,B,C,D, and A must be first.

149. (D) Only I

Some books belong to the maps set. Every member of the maps set is a printed item. Those particular books must therefore also be printed items, so conclusion I follows. The statement does not say that only maps are printed. Newspapers or other printed items could exist, so conclusion II does not follow.

150. (A) 33 $\frac{1}{3}$%

For Y=60-2X: mean(Y)=60-2 x 18=24 and SD(Y)=|-2| x 4=8. CV = $\frac{8}{24}$ x 100% = 33 $\frac{1}{3}$%. Adding 60 shifts the mean but leaves spread unchanged; multiplying by -2 doubles SD.

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