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JIPMAT 2024
OFFICIAL PAPER

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QUANTITATIVE ABILITY

Questions: 33 (+4/-1) **Total Test time: 2.5 Hrs**

1. A company offers four types of successive discounts A – D (as given below) on the marked price of an article. Arrange these successive discounts A – D in ascending order based on the final selling price of the article after discounts.

(A) 25% and 15% (B) 30% and 10%
(C) 35% and 5% (D) 15% and 20%

Choose the correct answer from the options given below:

(a) (A), (B), (D), (C) (b) (C), (B), (A), (D)
(c) (B), (A), (D), (C) (d) (C), (A), (B), (D)

2. Arrange the following fractions in descending order.

(a) $\frac{5}{9}$ (b) $\frac{7}{11}$
(c) $\frac{8}{15}$ (d) $\frac{11}{17}$

Choose the correct answer from the options given below:

3. If the seven-digit number 94a29b6 is divisible by 72, then what is the value of (2a + 3b) for b ≠ 3?

(a) 35 (b) 37
(c) 23 (d) 21

4. Match List-I with List-II

	List-I (Expression)		List-II (Absolute Value)
(A)	$\sqrt{15 \times 163 \div 5 - 89}$	(I)	105
(B)	$\sqrt{15^2 + 11 \times 3^2}$	(II)	20
(C)	$\sqrt{8^2 \times 7 \times 5^2 - 175}$	(III)	10
(D)	$\sqrt{91 + \sqrt{70 + \sqrt{121}}}$	(IV)	18

Choose the correct answer from the options given below:

(a) (A) - (III), (B) - (I), (C) - (IV), (D) - (II)
(b) (A) - (II), (B) - (III), (C) - (I), (D) - (IV)
(c) (A) - (II), (B) - (IV), (C) - (I), (D) - (III)
(d) (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

5. An amount doubles itself at compound interest in 5 years. How many years will it take to make the amount 16 times itself?

(a) 25 (b) 15
(c) 16 (d) 20

6. A candidate scoring x% marks in an examination fails by 'a'marks while another candidate who scores y% marks, gets ' b ' marks more than the minimum required pass marks. What is the maximum marks for the examination?

(a) $\frac{100(a+b)}{(x-y)}$ (b) $\frac{100(a-b)}{(x+y)}$
(c) $\frac{100(a+b)}{(y-x)}$ (d) $\frac{100(a-b)}{(x-y)}$

7. What will be the least number which when divided by 12, 21 and 35 leaves 6 as a remainder in each case?

(a) 426 (b) 326
(c) 536 (d) 43

8. An equilateral triangle ABC is inscribed in a circle of radius $20\sqrt{3}$ cm. The centroid of the triangle ABC is at a distance d from the vertex A. Then d is equal to?

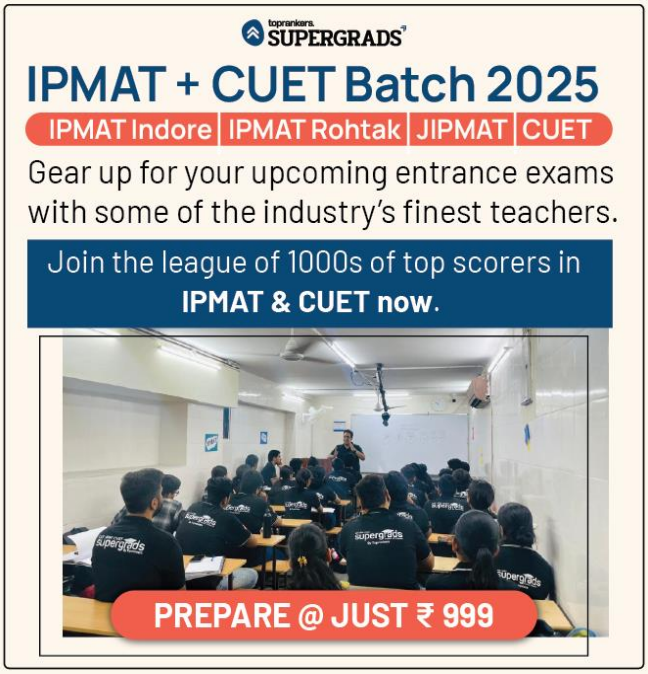
(a) 15 cm (b) 20 cm
(c) $20\sqrt{3}$ cm (d) $30\sqrt{3}$ cm

9. Simplify: $\frac{\sqrt[4]{0.0625}+\sqrt[3]{0.008}+\sqrt{0.09}-1}{\sqrt[3]{62.5\times\sqrt[5]{32}}}$

(a) 1.25 (b) $\frac{1}{5}$
(c) 0 (d) 24

10. A man sold $\frac{3}{5}^{th}$ of his articles at a gain of 20% and the remaining at the cost price. The gain earned in the transaction is

(a) 8% (b) 14%
(c) 12% (d) 16%



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11. Given below are two statements:
In class ' X ' of 30 students, 24 passed in first division; in another class ' Y ' of 35 students, 28 passed in first division.
Statement I:
Class ' X ' has more percentage of students getting first division.
Statement II:
Both classes have equal percentage of students getting first division.
In the light of the above statements, choose the correct answer from the options given below:
(a) Both Statement I and Statement II are true
(b) Both Statement I and Statement II are false
(c) Statement I is true but Statement II is false
(d) Statement I is false but Statement II is true

12. Given below are two statements: (linear equations)
Given that $a:b = 5:3$ and $b:c = 2:5$, then $(c - a)$ will be equal to
Statement I:
$10(a + c)$
Statement II:
$10a + 25b$
In the light of the above statements, choose the correct answer from the options given below:
(a) Both Statement I and Statement II are true
(b) Both Statement I and Statement II are false
(c) Statement I is true but Statement II is false
(d) Statement I is false but Statement II is true

13. The HCF and LCM of two numbers x and y are respectively 6 and 210.
If $x + y = 72$, then $\frac{1}{x} + \frac{1}{y}$ is equal to:
(a) $\frac{1}{35}$ (b) $\frac{3}{35}$
(c) $\frac{5}{37}$ (d) $\frac{2}{35}$

14. An equilateral triangle ABC is inscribed in a circle of radius $20\sqrt{3}$ cm. What is the length of the side of the triangle?
(a) 30 cm (b) 40 cm
(c) 50 cm (d) 60 cm

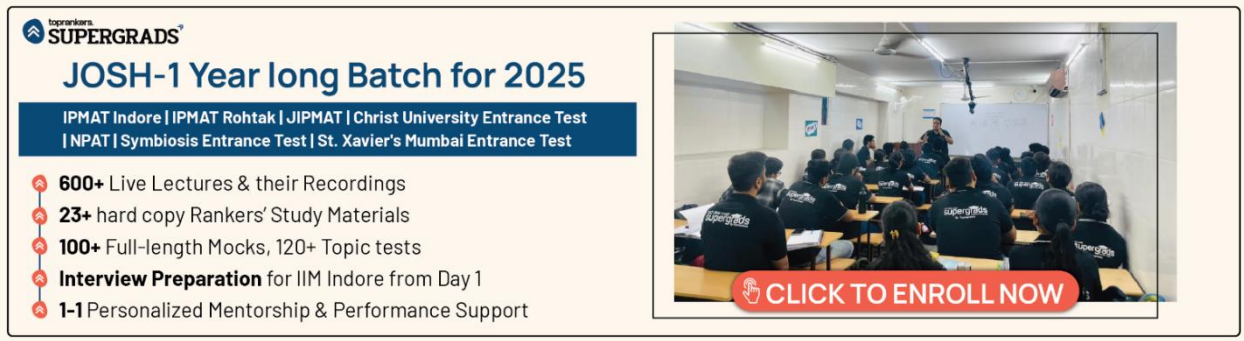
15. The average of five consecutive numbers is a. If the next two numbers are also included, how will the average vary?
(a) It shall increase by 1
(b) It shall increase by 1.4
(c) It shall remain the same
(d) It shall increase by 2

16. Ram and Shyam run a race between points A and B, 5 km apart. Ram starts at 9AM from A at a speed of 5 km/hr, reaches B and returns to A at the same speed. Shyam starts at 9: 45 AM from A at a speed of 10 km/hr, reaches B and comes back to A at the same speed.
At what time do Ram and Shyam meet each other?
(a) 10: 00AM (b) 10: 10AM
(c) 10: 20AM (d) 10: 30AM

17. Ram and Shyam run a race between points A and B, 5 km apart. Ram starts at 9 AM from A at a speed of 5 km/hr, reaches B and returns to A at the same speed. Shyam starts at 9: 45 AM from A at a speed of 10 km/hr, reaches B and comes back to A at the same speed. At what time does Shyam overtake Ram?
(a) 10: 20 AM (b) 10: 30 AM
(c) 10: 40 AM (d) 10: 50 AM

18. A is 40% less efficient than B who can do the same work in 20% less time than C. If A and B together can complete 80% work in 12 days, then in how many days 60% work can be completed by B and C together?
(a) 2 days (b) 4 days
(c) 8 days (d) 16 days

19. If the roots of the equation $x^2 - px + 54 = 0$ are in the ratio 2: 3, then value of p is:
(a) 18 (b) 21
(c) -21 (d) 15



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20. The points (2,2), (6,3) and (4,11) are vertices of
(a) Equilateral triangle (b) Isosceles triangle
(c) Right-angled triangle (d) Scalene triangle

21. The sides of four triangles are given below. Which of them forms a right triangle?
(a) 20 cm, 22 cm, 24 cm (b) 15 cm, 32 cm, 37 cm
(c) 11 cm, 60 cm, 61 cm (d) 6 cm, 8 cm, 10 cm
Choose the correct answer from the options given below:

22. If each side of a cube is decreased by 19%, then the decrease in surface area is
(a) 40% (b) 34.39%
(c) 38.4% (d) 19%

23. A person travels three equal distances at a speed of 'a' km/hr, 'b' km/hr and 'c' km/hr respectively. What is the average speed for the whole journey?
(a) $\frac{abc}{3(ab+bc+ac)}$ (b) $\frac{abc}{ab+bc+ac}$
(c) $\frac{ab+bc+ac}{abc}$ (d) $\frac{3abc}{ab+bc+ac}$

24. If $\sin\theta + \cos\theta = \frac{\sqrt{7}}{2}$, then $(\sin\theta - \cos\theta)$ is equal to
(a) 0 (b) $\frac{1}{2}$
(c) 1 (d) $\sqrt{2}$

25. By selling two articles for ₹ 800, a person gains the cost price of three articles. The profit percent is:
(a) 125% (b) 140%
(c) 120% (d) 150%

26. Given below are two statements:
Statement I:
$\frac{\cot 30^\circ + 1}{\cot 30^\circ - 1} = 2(\cos 30^\circ + 1)$
Statement II:
$2\sin 45^\circ \cos 45^\circ - \tan 45^\circ \cot 45^\circ = 0.$
In the light of the above statements, choose the correct answer from the options given below:
(a) Both Statement I and Statement II are true
(b) Both Statement I and Statement II are false
(c) Statement I is true but Statement II is false
(d) Statement I is false but Statement II is true

27. If highest common factor of $x^2 - px - q$ and $5x^2 - 3px - 15q$ is $(x - 3)$, then value of (p, q) will be:
(a) $\left(\frac{5}{3}, 4\right)$ (b) $\left(\frac{-5}{3}, -4\right)$
(c) $\left(\frac{5}{2}, \frac{3}{2}\right)$ (d) $\left(4, \frac{-3}{5}\right)$

28. The factors of polynomial $x^3 - 6x^2 + 11x - 6$ are:
(a) $(x + 1)(x + 2)(x + 3$ (b) $(x - 1)(x + 2)(x + 3)$
(c) $(x - 1)(x - 2)(x - 3)$ (d) $(x - 1)(x - 2)(x + 3)$

29. Fifteen people from different places come together for a family reunion. Each one of them had two gifts each for every other person. When the gifts were exchanged, they hugged each other. What is the difference between the number of hugs and the number of gifts exchanged?
(a) 315 (b) 545
(c) 330 (d) 11

30. A speaks the truth in 75% cases and B in 80% of the cases. In what percentage of cases are they likely to contradict each other in narrating the same incident?
(a) 5% (b) 15%
(c) 35% (d) 45%

31. If α and β are the roots of the equation $ax^2 + bx + c = 0$, then value of $\frac{1}{a\alpha+b} + \frac{1}{a\beta+b}$ is:
(a) $\frac{a}{bc}$ (b) $\frac{b}{ac}$
(c) $\frac{c}{ab}$ (d) $\frac{1}{abc}$

32. A circle, square, equilateral triangle and regular pentagon have the same areas. Arrange the following in ascending order based on their perimeters.
(A) Circle (B) Square
(C) Equilateral triangle (D) Regular pentagon
Choose the correct answer from the options given below:
(a) (C), (D), (B), (A) (b) (A), (B), (C), (D)
(c) (A), (D), (B), (C) (d) (D), (B), (C), (A)

33. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).
Assertion (A):
The sum of n terms of the Progression
$1 + \frac{1}{2} + \frac{1}{2^2} + \frac{1}{2^3} + \ldots\ldots\ldots\ldots$ is $\frac{2^{n-1}-1}{2^{n-1}}$.
Reason (R):
Sum of a geometric series having n terms is given by $S_n = \frac{a(1-r^n)}{1-r}$, where a is the 1st term and r is the common ratio.
In the light of the above statements, choose the correct answer from the options given below:
(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of (A).
(b) Both Assertion (A) and Reason (R) are true but Reason (R) is NOT the correct explanation of (A).
(c) (A) is true but (R) is false.
(d) (A) is false but (R) is true.

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DATA INTERPRETATION AND LOGICAL REASONING

Questions: 33 (+4/-1)

34. A watch which gains uniformly is 2 minutes slow at 10AM on Wednesday and $2\frac{1}{2}$ minutes fast at 1 PM the following day. When will it show the correct time?

(a) 10: 30AM, Thursday (b) 9: 15 PM, Wednesday
(c) 10: 30AM, Wednesday (d) 10: 00 PM, Wednesday

35. The main statement is followed by two conclusions. Select the one alternative that logically follows from the main statement.

Statement:
The use of non-conventional sources of energy will eliminate the energy crisis in the world.

Conclusions:

I. Modern technology is gradually replacing the conventional sources of energy.
II. The excessive exploitation of environment has led to depletion of conventional sources of energy.

(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Neither conclusion I nor II follows
(d) Both conclusions I and II follow

36. The digits from 0 to 9 are coded as shown below along with the Exceptions I and II:

Digit	8	3	0	7	4	6	9	2	5	1
Code	$	H	R	A	M	%	L	K	E	#

Exception I:
If a number begins and ends with a non-zero odd digit, then first and last digits are to be coded as Y and * respectively.
Exception II:
If a number begins and ends with an even digit (including zero), then the first and last digits are to be coded as β and X respectively.
Which of the following numbers can the code YH$ME * represent?

(a) 138450 (b) 338457
(c) 538459 (d) 438458

Choose the correct answer from the options given below:

37. Find the pair of numbers that can replace the question mark (?) in the series given below:
90,180,12,50,100, ? , ? ,3,50,4,25,2,6,30,3.

(a) 20,75 (b) 200,150
(c) 150,1 (d) 120,30

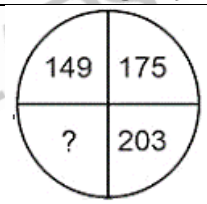
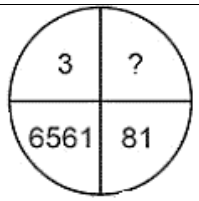
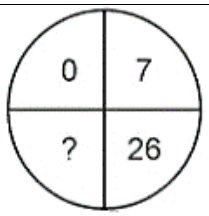
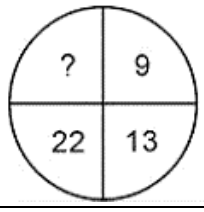
38. Five friends A, B, C, D and E travelled to five different cities; Pune, Kolkata, Delhi, Bengaluru and Mumbai by different modes of transport; bus, train, aeroplane, car and boat from Goa. Further, the following information is given:

(A) The person who travelled to Delhi did not travel by boat.
(B) C went to Bengaluru by car and B went to Kolkata by aeroplane.
(C) D travelled by boat and E travelled by train.
(D) Goa is not connected by bus to Delhi and Pune.

Now, which of the following pair of person and mode of transport is NOT correct?

(a) A - Bus (b) B - Aeroplane
(c) D - Boat (d) E-Car

39. Match List I with List II

	List I (Problem Figure)	List II (Missing Number/ Character)	
(A)		(I)	63
(B)		(II)	38
(C)		(III)	9
(D)		(IV)	233

Choose the correct answer from the options given below:

(a) (A) - (IV), (B) - (III), (C) - (I), (D) - (II)
(b) (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

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(c) (A) - (III), (B) - (IV), (C) - (II), (D) - (I)
(d) (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

40. Find the missing term that can replace the question mark (?) in the series given below:
A2Y, B8V, D33R, ?, K765G.
(a) G134M (b) H142M
(c) J176P (d) G148M

41. Six girls are sitting in a circle facing towards the centre of the circle. Sonia is sitting opposite Radhika. Purnima is sitting to the right of Radhika but to the left of Deepti. Monika is sitting to the left of Radhika. Kamini is sitting to the right of Sonia and to the left of Monika. Now Deepti and Kamini, Monika and Radhika mutually exchange their positions who will be sitting to the left of Deepti?
(a) Sonia (b) Monika
(c) Radhika (d) Purnima

42. There is a certain relationship between two given terms on one side of (: :) and one term is given on the other side of (: :). Another term is to be found from the given alternatives having the same relation, with this term, as the terms of given pair.
AFHO : GBDJ : : CHFM : ?
(a) GBIM (b) GBLD
(c) GPLD (d) IDBH

43. Match List I with List II

List I (Pattern)		List II (Missing Term)	
(A)	8,13,21,32,46,63, ?	(I)	40
(B)	20,80,30,60,40, ? ,50,20	(II)	101
(C)	0,2,3,5,8,10,15,17,24,26, ?	(III)	83
(D)	6,13,25,51, ?	(IV)	35

Choose the correct answer from the options given below:
(a) (A) - (III), (B) - (I), (C) - (II), (D) - (IV)
(b) (A) - (III), (B) - (I), (C) - (IV), (D) - (II)
(c) (A) - (IV), (B) - (III), (C) - (II), (D) - (I)
(d) (A) - (IV), (B) - (I), (C) - (III), (D) - (II)

44. In a certain code language, if GREEN is coded as 1677209, then how would BLUE be coded in that language ? (Coding)
(a) 723144 (b) 521122
(c) 723142 (d) 721144

45. A cube is coloured red on all of its faces. It is then cut into 64 smaller cubes of equal size. Which of the following statements are correct? (number puzzle)
(A) The number of smaller cubes with two surfaces painted is 36.
(B) The number of smaller cubes with one surface painted is 24.
(C) The number of smaller cubes with no surface painted is 8.
(D) The number of smaller cubes with at least two surfaces painted is 30.
Choose the correct answer from the options given below:
(a) (A), (B) and (D) only (b) (B), (C) and (D) only
(c) (B) and (C) only (d) (A) and (D) only

46. Find the odd word among the following: (odd one out)
(a) Tuberculosis (b) Diphtheria
(c) Measles (d) Typhoid

47. Pointing to a photograph, a woman says, 'this man's son's sister is my mother-in-law." How is the woman's husband related to the man in photograph? (blood relations)
(a) Grandson (b) Son
(c) Nephew (d) Son-in-law

48. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).
Assertion (A):
When lightning strikes, the sound is heard a little after the flash is seen.
Reason (R):
The velocity of light is greater than that of the sound.
In the light of the above statements, choose the correct answer from the options given below:
(a) Both Assertion (A) are true Reason (R) is the correct explanation of (A)
(b) Both Assertion (A) and Reason (R) are true but Reason (R) is NOT the correct explanation of (A)
(c) (A) is true but (R) is false
(d) (A) is false but (R) is true

49. 'Conscience' is related to 'Wrong' in the same way as 'Police' is related to -
(a) Court (b) Law
(c) Discipline (d) Crime

50. A cashier has ₹620 in the denominations of two-rupee notes, ten-rupee notes and fifty-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he/she has?
(a) 25 (b) 35
(c) 12 (d) 30

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51. The following table gives the expenditure details of a family during the years 2011 to 2015.
Study the table and answer the questions that follow.

Item of Expenditure	Expenditure (in ₹ Thousands)					
	2011	2012	2013	2014	2015	Total
Food	800	900	1050	1200	1400	5350
House Rent	150	150	210	240	300	1050
Clothing	75	100	130	170	250	725
Fuel and Electricity	30	40	50	60	70	250
Education	150	170	200	260	300	1080
Medical Expenses	75	90	100	110	150	525
Miscellaneous	220	250	260	360	430	1520
Total	1500	1700	2000	2400	2900	10500

What is the percentage increase in expenditure on education during 2011 to 2015?

(a) 50% (b) 75%
(c) 100% (d) 150%

52. The following table gives the expenditure details of a family during the years 2011 to 2015.
Study the table and answer the questions that follow.

Item of Expenditure	Expenditure (in ₹ Thousands)					
	2011	2012	2013	2014	2015	Total
Food	800	900	1050	1200	1400	5350
House Rent	150	150	210	240	300	1050
Clothing	75	100	130	170	250	725
Fuel and Electricity	30	40	50	60	70	250
Education	150	170	200	260	300	1080
Medical Expenses	75	90	100	110	150	525
Miscellaneous	220	250	260	360	430	1520
Total	1500	1700	2000	2400	2900	10500

Considering the total expenditure for all the five years together, what is the percentage expenditure on house rent?

(a) 5% (b) 10%
(c) 12% (d) 8%

53. The following table gives the expenditure details of a family during the years 2011 to 2015.
Study the table and answer the questions that follow.

Item of Expenditure	Expenditure (in ₹ Thousands)					
	2011	2012	2013	2014	2015	Total
Food	800	900	1050	1200	1400	5350
House Rent	150	150	210	240	300	1050
Clothing	75	100	130	170	250	725
Fuel and Electricity	30	40	50	60	70	250
Education	150	170	200	260	300	1080
Medical Expenses	75	90	100	110	150	525
Miscellaneous	220	250	260	360	430	1520
Total	1500	1700	2000	2400	2900	10500

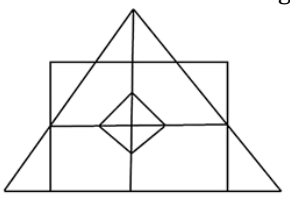
In the light of the total expenditure for 2011, 2012, 2013, 2014 and 2015, what will be the likely expenditure in 2016?

(a) ₹ 30,00,000 (b) ₹ 32,00,000
(c) ₹ 35,00,000 (d) ₹ 37,00,000

54. Which of the following words **CANNOT** be formed from the letters of the word 'INFRASTRUCTURE' ?

(a) Nature (b) Charter
(c) Fracture (d) Restrain

55. Find the number of triangles in the following figure:



(a) 19 (b) 17
(c) 21 (d) 23

56. How many such pairs of letters are there in the word INSTRUCTION which have as many letters between them in the word as in the English alphabet?

(a) One (b) Two
(c) Three (d) Four

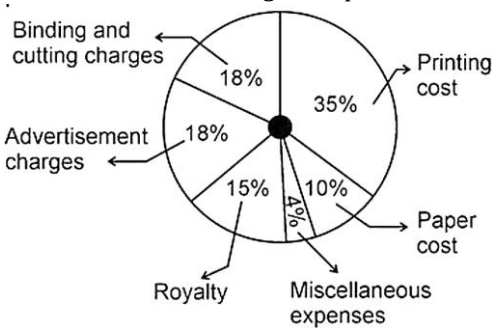
57. In the following question, a Statement is given followed by Arguments I and II. Choose the best option.

Statement:
Should public holidays be declared on demise of important national leaders?

Arguments:
I. No, such unscheduled holidays hamper national progress.
II. Yes, people would like to pay their homage to departed soul.

(a) Only argument I is strong.
(b) Only argument II is strong.
(c) Neither argument I nor II is strong.
(d) Both arguments I and II are strong.

58. The following pie chart shows percentage expenses on various items during book production.



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If the miscellaneous charges are ₹ 6,000, how much more are 'Binding and Cutting charges' than 'Royalty'?

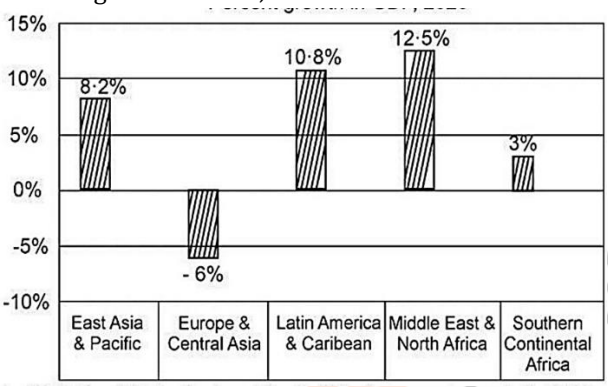
(a) ₹ 6,000 (b) ₹ 5,500
(c) ₹ 4,500 (d) ₹ 10,500

59. A square park PQRS of side 90 m is so located that its diagonal PR is from north to south and the corner Q is to the west of S. Radha and Mohan start walking along the sides from Q and R respectively in clockwise and anti-clockwise directions with speeds of 8 km/hr and 10 km/hr. Where will they cross each other the second time?

(a) On PS at a distance of 30 m from P
(b) On QR at a distance of 10 m from Q
(c) On PS at a distance of 30 m from S
(d) On QR at a distance of 10 m from R

60. The following graph shows economic data for the financial year 2023.

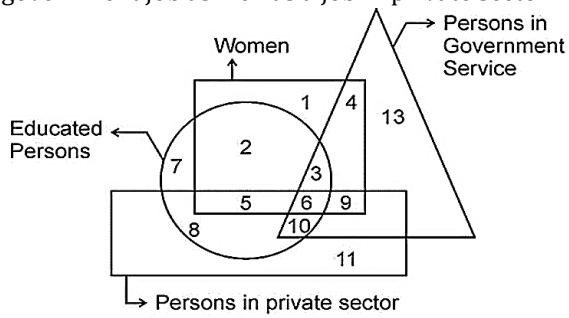
Percent growth in GDP, 2023



In 2023, the Middle East and North Africa's percent growth in GDP was approximately what percent greater than Southern Continental Africa's percent growth in GDP?

(a) 225% (b) 317%
(c) 367% (d) 417%

61. Study the diagram given below and find the number which represents the uneducated women, who have a government job as well as a job in private sector?

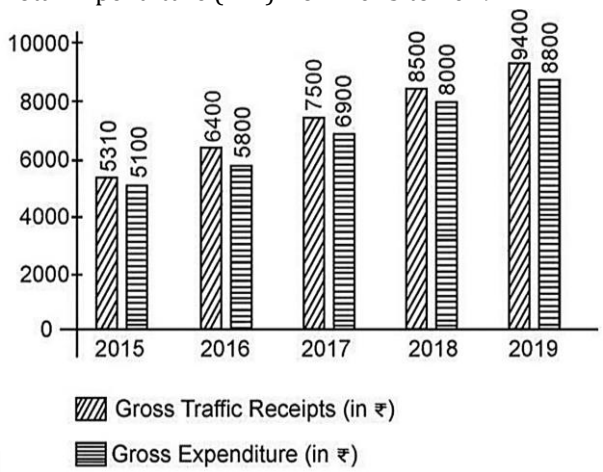


(a) 9 (b) 12
(c) 6 (d) 4

62. Prakash remembers that his wife Roshni's birthday falls after 20th May but before 28th May, while Jyoti remembers that her mother Roshni's birthday falls after 26th May but before 30th May. On what date does Roshni's birthday fall?

(a) 26th May (b) 27th May
(c) 28th May (d) 29th May

63. The following graph shows Gross Traffic Receipts and Total Expenditure (in ₹) from 2015 to 2019.



In order to make a profit of 10%, what should have been the approximate gross traffic receipts in 2016, total expenditure remaining the same?

(a) 5667 (b) 5876
(c) 6380 (d) 7667

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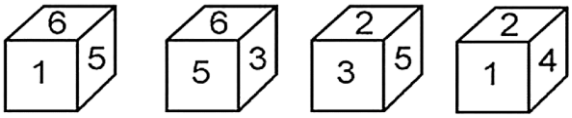
64. A cube has six numbers marked 1,2,3,4,5 and 6 on its faces. Four views of the cube are shown below:



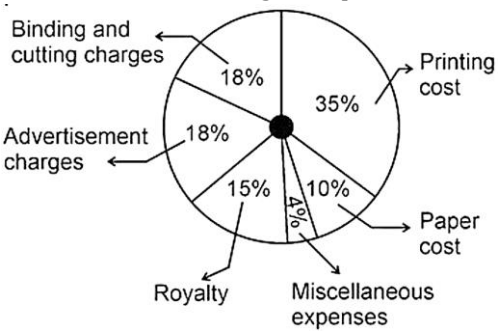
What is the number on the face opposite to the face showing 4?

(a) 1 (b) 6
(c) 3 (d) 5

65. Unscramble the letters in the given words to generate meaningful words and then find the odd one out.
POROT, ROPUG, BMO, SALCS

(a) POROT (b) ROPUG
(c) BMO (d) SALCS

66. The following pie chart shows percentage expenses on various items during book production.



The central angle corresponding to the sector on 'Printing cost' is more than that of 'Advertisement charges' by.

(a) 72° (b) 61.2°
(c) 60° (d) 54.8°

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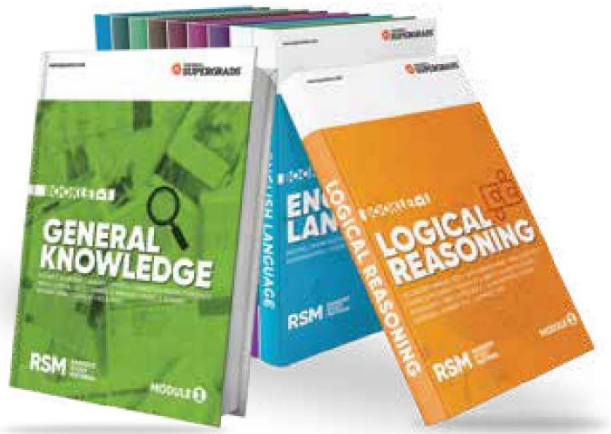

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67. Pick the correct meaning of the phrase "ULTRA VIRES".
(a) Internet virus (b) Contagious disease
(c) Within authority (d) Beyond jurisdiction

68. Choose the option which best replaces the underlined phrase in the following sentence. "In a few minutes' time, when the clock strikes six I would be waiting here for an hour".
(a) Shall be waiting on (b) Shall have been waiting
(c) Shall wait (d) No improvement

69. Pick the correct option to complete the following sentence:
"All the students and teachers _____ this book.
(a) likes (b) like
(c) liking (d) are like

70. Choose the option which best replaces the underlined phrase. When Dr. Sapra came to the school in 1995, Dr. Anand <u>had already been teaching there since five years.</u>
(a) have already been teaching there for five years
(b) had already been teaching there for five years
(c) has already been teaching there since five years
(d) No improvement

71. Pick the most appropriate punctuation mark for the following sentence:
"There goes the bell _____"
(a) (.) full stop (b) (?) question mark
(c) (!) exclamation mark (d) (:) colon

72. Which of the following is the synonym of the term "HACKNEYED"?
(a) Important (b) Horrible
(c) Clichéd (d) Heightened

73. Pick the word with the correct spelling.
(a) Dicease (b) Desease
(c) Discease (d) Disease

74. The idiom "a gentleman at large" means _____ .
(a) a man in the crowd (b) a man without a job
(c) a man who runs around (d) a man who is generous

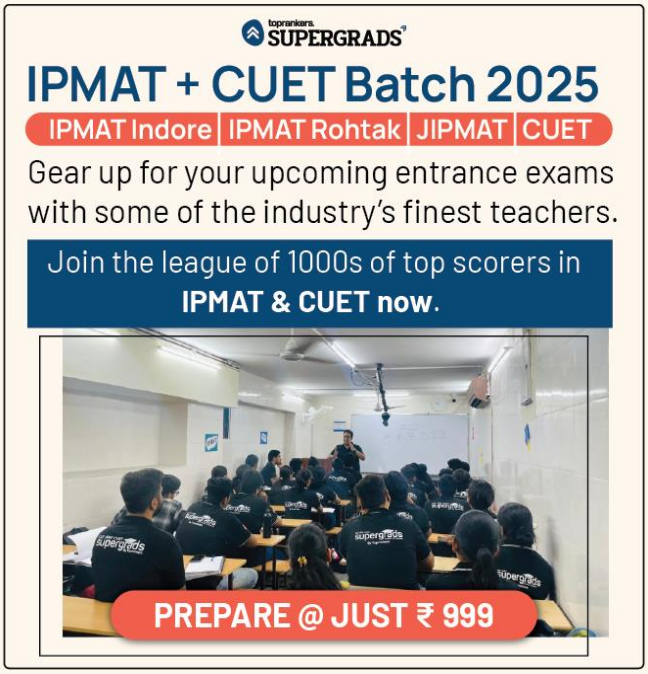
75. Pick the best substitute for the following expression:
"One who does not care for literature or art".
(a) Dictator (b) Hypocrite
(c) Philistine (d) Primitive

76. Which of the following options is the correct meaning of the underlined phrase in the following sentence?
"Should spending on the arts be met out of the <u>public purse?</u>
(a) From the sum collected from public donation.
(b) From the purse of the art enthusiasts.
(c) From the money meant to be distributed to the poor and needy.
(d) From the government money.

77. Pick the correct antonym of the term "DILATE".
(a) Dilute (b) Differentiate
(c) Contract (d) Expand

78. Identify the error in the sentence given below having three components marked as (i), (ii), and (iii):
(i) <u>I was disappointed</u>
(ii) <u>when I came for seeing you last evening</u>
(iii) but could not find you at home.
(a) (i) (b) (ii)
(c) (iii) (d) (ii) and (iii)

79. Pick the passive equivalent of the following sentence:
"The taxi will drop you at the airport."
(a) The taxi at the airport will be dropping you.
(b) Dropping you at the airport will be done by the taxi.
(c) The taxi is dropping you at the airport.
(d) You will be dropped at the airport by the taxi.



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80. Out of the given options, pick the one which best expresses the following sentence in indirect speech.
The coach said, "Well done ! You have made me proud."
(a) The coach applauded and said that he has made him proud.
(b) The coach applauds and says well done that he had made him proud.
(c) The coach applauded and says well done and that he has made him proud.
(d) The coach applauded and said that he had made him proud.

81. Pick the odd one out from the following options.
(a) Plan for (b) Plan on
(c) Plan out (d) Plan in

82. Pick the active voice of the following sentence:
"The national anthem is being sung by the players".
(a) The players were singing the national anthem.
(b) The players are singing the national anthem.
(c) The players sing the national anthem.
(d) The players have sung the national anthem.

83. Read the paragraph and answer the questions that follow.

Are people ____ (i)_____ or even typically, guided by reason, rather than, say, by passion or impulse ? If the norms of rational behaviour are not followed by people in their actual behaviour, how can we seek the same answer to two rather different questions : what would be rational for a person to do ? And what would the person actually do ? Shouldn't the economists who make such double use of maximisation - whether through explicit reasoning _____(ii)____ by implicit presumption - be invited to apply their minds to this ?

A number of economists have indeed paid attention to systematic departures from rationality in actual choices made by people. One argument that has been invoked, in a line of reasoning proposed by Herbert Simon, goes by the name of bounded rationality. It concerns the possibility that people may not, in all cases, look for fully _____(iii)_____ choices because of their inability to be sufficiently focussed. There is considerable evidence, powerfully presented, for example, _____(iv)_____ Kahneman, Slovic and Tversky, that people may fail to understand adequately the nature of the uncertainty.

Pick the most appropriate word to fill (ii) in the given passage:
(a) and (b) or
(c) along (d) instead

84. Read the paragraph and answer the questions that follow.

Are people ____ (i)_____ or even typically, guided by reason, rather than, say, by passion or impulse? If the norms of rational behaviour are not followed by people in their actual behaviour, how can we seek the same answer to two rather different questions: what would be rational for a person to do? And what would the person actually do? Shouldn't the economists who make such double use of maximisation - whether through explicit reasoning ____ (ii)___ by implicit presumption - be invited to apply their minds to this?

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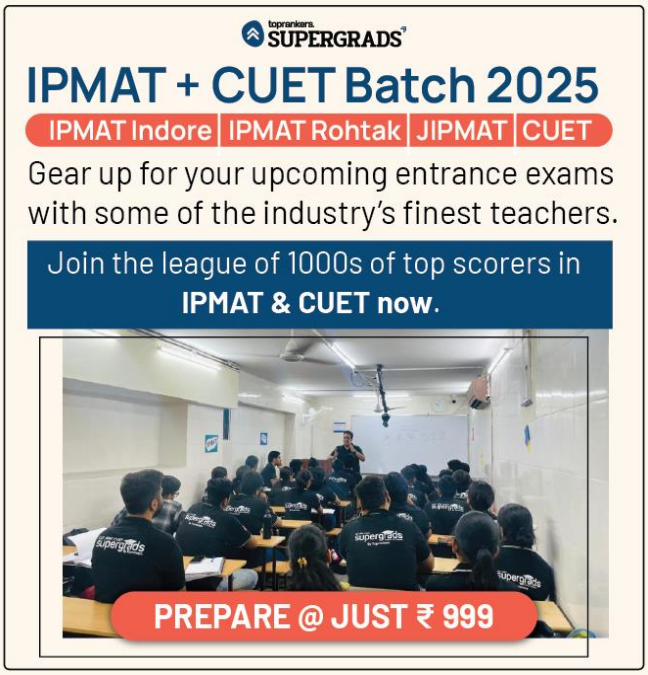
Pick the most appropriate word to fill (iii) in the given passage:
(a) rational (b) rationale
(c) rationally (d) rationality



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85. Read the paragraph and answer the questions that follow.

Are people ___(i)____ or even typically, guided by reason, rather than, say, by passion or impulse? If the norms of rational behaviour are not followed by people in their actual behaviour, how can we seek the same answer to two rather different questions: what would be rational for a person to do? And what would the person actually do? Shouldn't the economists who make such double use of maximisation - whether through explicit reasoning ____(ii)____ by implicit presumption - be invited to apply their minds to this?

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Pick the most appropriate word to fill (iv) in the given passage:

(a) with (b) by
(c) at (d) up

86. Read the paragraph and answer the questions that follow.

Are people ____(i)___ or even typically, guided by reason, rather than, say, by passion or impulse? If the norms of rational behaviour are not followed by people in their actual behaviour, how can we seek the same answer to two rather different questions: what would be rational for a person to do? And what would the person actually do? Shouldn't the economists who make such double use of maximisation - whether through explicit reasoning _____(ii)_____ by implicit presumption - be invited to apply their minds to this?

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Pick the most appropriate word to fill (i) in the given passage

(a) invariable (b) invariably
(c) invariabily (d) invariability

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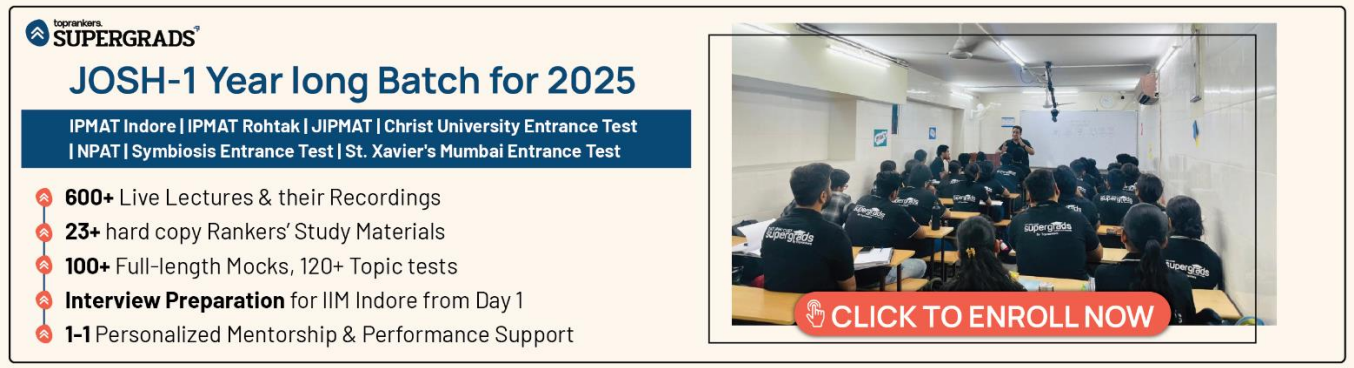

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87. Read the paragraph and answer the questions that follow.

Literary criticism does not necessarily have to choose between textual or verbal and contextual study. The distinction between the two types of linguistic meaning is seen at two levels, formal and textual. Formal meaning in poetry is the level at which stylistic patterns occur but these are not restricted to mere form.

Panini discusses, in a few sutras scattered over his works, the influence of the concept of language in various spheres of suffixes, primary and secondary derivatives and compounds. Poetics is also indebted to grammar for the terms 'Jati' (genus), 'Kriya' (action), 'Guna' (quality) and 'Dravya' (individual/substance) which it uses in connection with certain poetic figures or while dealing with the expressive function of words.

Literary criticism, in the Sanskrit tradition, has been understood to be a sastra by which is meant any systematic, well-formulated body of knowledge. A 'sastraic' exposition is supposed to involve inquiry into the nature of substance, nature of language and the validity of critical statements. Thus, a basic understanding of the grammatical and philosophical issues is a prerequisite for the understanding of critical questions.

Which word in the passage is close in meaning to 'being logical and true' ?

(a) Inquiry
(b) Formulated
(c) Compound
(d) Validity

88. Read the paragraph and answer the questions that follow.

Literary criticism does not necessarily have to choose between textual or verbal and contextual study. The distinction between the two types of linguistic meaning is seen at two levels, formal and textual. Formal meaning in poetry is the level at which stylistic patterns occur but these are not restricted to mere form.

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As per the passage, which of the following was primarily discussed by Panini?

(a) Terms like 'jati', 'kriya', 'guna' and 'dravya'
(b) Impact of language on derivative words
(c) Philosophical issues
(d) Critical questions

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89. Read the paragraph and answer the questions that follow.

Literary criticism does not necessarily have to choose between textual or verbal and contextual study. The distinction between the two types of linguistic meaning is seen at two levels, formal and textual. Formal meaning in poetry is the level at which stylistic patterns occur but these are not restricted to mere form.
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Literary criticism, in the Sanskrit tradition, has been understood to be a sastra by which is meant any systematic, well-formulated body of knowledge. A 'sastraic' exposition is supposed to involve inquiry into the nature of substance, nature of language and the validity of critical statements. Thus, a basic understanding of the grammatical and philosophical issues is a prerequisite for the understanding of critical questions.

Which of the following statements are true about the given passage?

(A) Literary criticism must use either textual or contextual study.
(B) Formal and textual are two levels and help in ascertaining linguistic meaning.
(C) Critical questions cannot be understood without a philosophical and grammatical understanding.
(D) Panini has written in a compact format of Sutras.
(E) Sanskrit has a tradition of literary criticism for a long time.

Choose the most appropriate answer from the options given below:

(a) (A) and (E) only
(b) (C), (D) and (B) only
(c) (C) and (D) only
(d) (B), (C), (D) and (E) only

90. Read the paragraph and answer the questions that follow.

Literary criticism does not necessarily have to choose between textual or verbal and contextual study. The distinction between the two types of linguistic meaning is seen at two levels, formal and textual. Formal meaning in poetry is the level at which stylistic patterns occur but these are not restricted to mere form.
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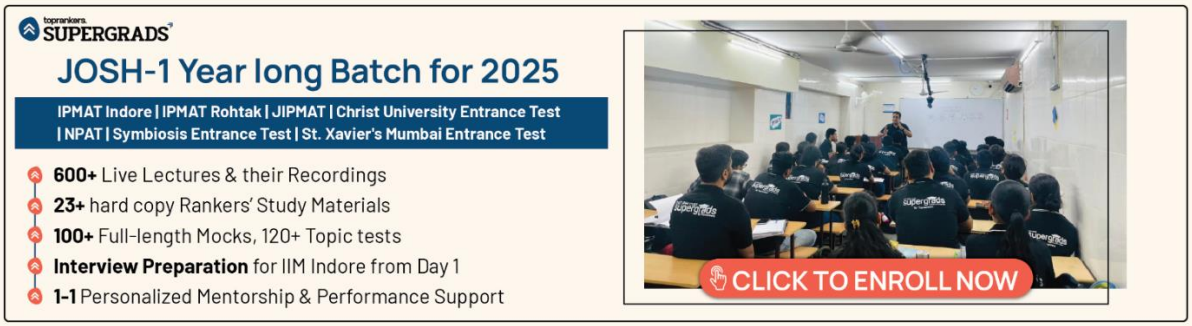
Which inquiries are undertaken in 'Sastraic' expositions?

(A) Mainly primary and secondary derivatives of compounds
(B) Nature of substance.
(C) Stylistic patterns
(D) Nature of language
(E) Validity of critical statements

Choose the most appropriate answer from the options given below:

(a) (D) and (E) only
(b) (B), (A), (C) and (D) only
(c) (B), (D) and (E) only
(d) (B) and (C) only



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91. Read the paragraph and answer the questions that follow.

All great thinkers live and move on a high plane of thought. It is only there they can breathe freely. It is only in contact with spirits like themselves they can live harmoniously and attain that serenity which comes from ideal companionship. I have always thought that the strongest argument in favour of the Baconian theory was, that no man, however indubitable his genius, could have writen the plays and sonnets that have come down to us under Shakespeare's name who had not the liberal education of Bacon. How this habit of intercourse with the gods makes one impatient of mere men. The magnificent ideals that have ever haunted the human mind, and given us our highest proofs of a future immortality by reason of the impossibility of their fulfillment here, are splintered into atoms by contact with life's realities. Hence comes our sublime discontent. It may be spiritual or intellectual pride that is engendered on the high plane of intellectual life. But whatever it is, it becomes inevitable. A habitual meditation on the vast problems that underline human life, and are knit into human destinies. It is easy to understand, therefore, why such thinkers fly to the solitude of their own thoughts, or the silent companionship of the immortals; and if they care to present their views in prose or verse to the world, that these views take a sombre and melancholy setting from "the pale cast of thought" in which they were engendered.

Given below are two statements:

Statement I:

The author upholds the Baconian theory because, according to him, despite being a genius, Shakespeare could not write the plays and sonnets that have come down to us under his name.

Statement II:

He holds that Bacon was more resourceful than Shakespeare because he had the liberal education.

In the light of the above statements, choose the most appropriate answer from the options given below:

(a) Both Statement I and Statement II are correct
(b) Both Statement I and Statement II are incorrect
(c) Statement I is correct but Statement II is incorrect
(d) Statement I is incorrect but Statement II is correct

92. Read the paragraph and answer the questions that follow.

All great thinkers live and move on a high plane of thought. It is only there they can breathe freely. It is only in contact with spirits like themselves they can live harmoniously and attain that serenity which comes from ideal companionship. I have always thought that the strongest argument in favour of the Baconian theory was, that no man, however indubitable his genius, could have writen the plays and sonnets that have come down to us under Shakespeare's name who had not the liberal education of Bacon. How this habit of intercourse with the gods makes one impatient of mere men. The magnificent ideals that have ever haunted the human mind, and given us our highest proofs of a future immortality by reason of the impossibility of their fulfillment here, are splintered into atoms by contact with life's realities. Hence comes our sublime discontent. It may be spiritual or intellectual pride that is engendered on the high plane of intellectual life. But whatever it is, it becomes inevitable. A habitual meditation on the vast problems that underline human life, and are knit into human destinies. It is easy to understand, therefore, why such thinkers fly to the solitude of their own thoughts, or the silent companionship of the immortals; and if they care to present their views in prose or verse to the world, that these views take a sombre and melancholy setting from "the pale cast of thought" in which they were engendered.

What does the phrase "THE PALE CAST OF THOUGHT" mean?

(a) State of mind during sickness
(b) Sudden and quick flash of thoughts
(c) Unhappy and disillusional state of mind
(d) Serious and prolonged thinking

93. Read the paragraph and answer the questions that follow.

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Given below are two statements: One is labelled as Assertion (A) and the other is labelled as **Reason (R).**

Assertion (A):

The passage presents a rationale behind the great writers' flight to the solitude of their thoughts and silent companionship of immortals.

Reason (R):

They do so because they are melencholic and naturally averse to ordinary humanity and disgust of unregenerated masses.

In the light of the above statements, choose the most appropriate answer from the options given below :

(a) Both Assertion (A) and Reason (R) are correct and Reason (R) is the correct explanation of Assertion (A)
(b) Both Assertion (A) and Reason (R) are correct but Reason (R) is NOT the correct explanation of Assertion (A)
(c) (A) is correct but (R) is not correct
(d) (A) is not correct but (R) is correct

94. Read the paragraph and answer the questions that follow.

All great thinkers live and move on a high plane of thought. It is only there they can breathe freely. It is only in contact with spirits like themselves they can live harmoniously and attain that serenity which comes from ideal companionship. I have always thought that the strongest argument in favour of the Baconian theory was, that no man, however indubitable his genius, could have writen the plays and sonnets that have come down to us under

Shakespeare's name who had not the liberal education of Bacon. How this habit of intercourse with the gods makes one impatient of mere men. The magnificent ideals that have ever haunted the human mind, and given us our highest proofs of a future immortality by reason of the impossibility of their fulfillment here, are splintered into atoms by contact with life's realities. Hence comes our sublime discontent. It may be spiritual or intellectual pride that is engendered on the high plane of intellectual life. But whatever it is, it becomes inevitable. A habitual meditation on the vast problems that underline human life, and are knit into human destinies. It is easy to understand, therefore, why such thinkers fly to the solitude of their own thoughts, or the silent companionship of the immortals; and if they care to present their views in prose or verse to the world, that these views take a sombre and melancholy setting from "the pale cast of thought" in which they were engendered.

According to the author, why do the great thinkers need to attain and remain at high plane of thought?

(A) Because they want to enjoy harmony and serenity from ideal companionship.
(B) Because the experience of greatness makes them impatient of being ordinary men.
(C) Because the high plane of intellectual life instills a spiritual and intellectual pride in them.
(D) Because they are apathetic to commoners and solely eager to attain lofty ideals.

Choose most appropriate answer from the options given below:

(a) (A), (B) and (C) only
(b) (B), (C) and (D) only
(c) (A), (C) and (D) only
(d) (A), (B), (C) and (D)

95. Match List I with II

	List I		List II (Meaning) (Phrase)
(A)	Up for grabs	(I)	To be punished less severely than expected
(B)	Make hay while the sun shines	(II)	Become out of control
(C)	Go heywire	(III)	To use opportunities while they last
(D)	Get off lightly	(IV)	Available for anyone interested

Choose the correct answer from the options given below:

(a) (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
(b) (A) - (II), (B) - (III), (C) - (IV), (D) - (I)
(c) (A) - (III), (B) - (IV), (C) - (I), (D) - (II)
(d) (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

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96. Match List I with II

	List I		List II
(A)	I shall speak	(I)	Future Perfect Continuous Tense
(B)	I shall have spoken	(II)	Simple Future Tense
(C)	I shall have been speaking	(III)	Future Continuous Tense
(D)	I shall be speaking	(IV)	Future Perfect Tense

Choose the correct answer from the options given below:

(a) (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
(b) (A) - (II), (B) - (III), (C) - (IV), (D) - (I)
(c) (A) - (II), (B) - (IV), (C) - (I), (D) - (III)
(d) (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

97. Match List I with II

	List I (Underlined word)		List II (Meaning)
(A)	All men are mortal.	(I)	Noun
(B)	He was all alone when I saw him.	(II)	Pronoun
(C)	All spoke in his favour.	(III)	Adverb
(D)	He lost his all in speculation.	(IV)	Adjective

Choose the correct answer from the options given below :

(a) (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
(b) (A) - (II), (B) - (III), (C) - (IV), (D) - (I)
(c) (A) - (III), (B) - (IV), (C) - (I), (D) - (II)
(d) (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

98. Pick the part of the sentence with grammatical mistakes/errors.

(A) The economist were of the opinion
(B) that the government should give longer times to farmers
(C) to pay the loan instead of waiving the entire farm loan
(D) as doing so is not good for credit culture

Choose the correct answer from the options given below:

(a) (A) and (B) only
(b) (A) and (C) only
(c) (B) and (C) only
(d) (C) and (D) only

99. In the following question, a sentence is divided into four parts (A, B, C and D). Rearrange it in the proper sequence in order to make a meaningful sentence.

(A) that is closely related to the peach tree
(B) almonds are commonly called nuts
(C) but they are actually seeds
(D) and they come from a tree

Choose the correct answer from the options given below:

(a) (A), (B), (C), (D)
(b) (B), (C), (D), (A)
(c) (C), (D), (A), (B)
(d) (D), (A), (B), (C)

100. Out of the options given below, select the most logical order of the sentences to form a coherent paragraph.

(A) For that we need people who possess not only high skills but high values as well.
(B) So, the need of the hour is not only skill-based education but also value-inspired and value-based education.
(C) When we talk of investing in education, a question arises as to what kind of education needs to be given to the youngsters.
(D) Our aim is to evolve not only an affluent society, but an egalitarian, just, humane and compassionate society.

Choose the correct answer from the options given below:

(a) (D), (A), (C), (B)
(b) (A), (C), (B), (D)
(c) (C), (B), (D), (A)
(d) (C), (D), (A), (B)

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ANSWER KEY AND EXPLANATIONS

1. **(b)** Let the marked price of the item be Rs. 10000.
(a) Final selling price ⇒ $10000 \times \frac{75}{100} \times \frac{85}{100} = 6375$
(b) Final selling price ⇒ $10000 \times \frac{70}{100} \times \frac{90}{100} = 6300$
(c) Final selling price ⇒ $10000 \times \frac{65}{100} \times \frac{95}{100} = 6175$
(d) Final selling price ⇒ $10000 \times \frac{85}{100} \times \frac{80}{100} = 6800$

2. **(d)** We convert the given fractions into their percentage equivalent in order to simplify.
(A) $\frac{5}{9} \times 100 = 55.55\%$
(B) $\frac{7}{11} \times 100 = 63.63\%$
(C) $\frac{8}{15} \times 100 = 53.33\%$
(D) $\frac{11}{17} \times 100 = 64.70\%$

3. **(b)** Given number 94a29b6;
Writing divisor $72 = 8 \times 9$
Sum ⇒ $30 + a + b$ should be divisible by 9.
Also, 9b6 should be divisible by 8 ⇒ b can be 3 or 7
So, $\frac{30+a+3}{9}$ or $\frac{30+a+7}{9}$ i.e. a = 3 or 8
∴ $2a + 3b = 15$ or $2a + 3b = 37$. Ans

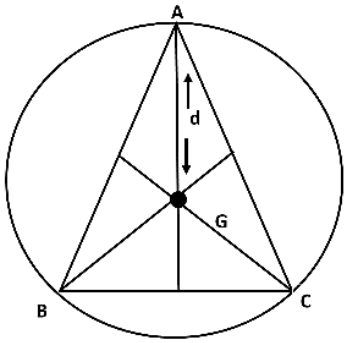
4. **(c)** Solving each mathematical equation from List I to match them with List II
A. $\sqrt{15 \times 163 \div 5 - 89} = \sqrt{400} = 20$
B. $\sqrt{15^2 + 11 \times 3^2} \Rightarrow \sqrt{324} = 18$
C. $\sqrt{8^2 \times 7 \times 5^2 - 175} \Rightarrow \sqrt{11025} = 105$
D. $\sqrt{91 + \sqrt{70 + \sqrt{121}}} = \sqrt{91 + \sqrt{81}} = \sqrt{100} = 10$
Option (c) A – II, B – IV C – I, D – III .Ans.

5. **(d)** Using Compound Interest formula,
$A = P\left(1 + \frac{R}{100}\right)^n$
$2P = P\left(1 + \frac{R}{100}\right)^5$
$\left(1 + \frac{R}{100}\right) = (2)^{\frac{1}{5}}$
Now as given in question, $16P = P\left(1 + \frac{R}{100}\right)^N$
$(2)^4 = (2^{\frac{1}{5}})^N$
$2^4 = 2^{\frac{N}{5}} \Rightarrow 4 = \frac{N}{5}$
Hence N = 20 years Ans.

6. **(d)** Let the total or maximum marks be T.
Passing marks from first student's point of view = x% of T + a
Passing marks from second student's point of view = y% of T – b
Equating the passing marks:
x% of T + a = y% of T – b
Total or maximum marks, T = $\frac{(a+b)}{(y\%-x\%)} = \frac{(a+b)\times 100}{(y-x)}$
Passing marks = x% of T + a
= x% of $\frac{(a+b)}{(y\%-x\%)}$ + a

7. **(a)** Least number = LCM(12, 21, 35) + Remainder
= 420 + 6 = 426 Ans.

8. **(c)**



An equilateral triangle inscribed in a circle, has its centroid at the centre of the circle.
Length AG = radius of circle = d = $20\sqrt{3}$ cm

9. **(c)** $\frac{\sqrt[4]{0.0625}+\sqrt[3]{0.008}+\sqrt{0.09}-1}{\sqrt[3]{62.5\times\sqrt[5]{32}}}$
$\Rightarrow \frac{\left(\frac{5}{10}\right)^{4\times\frac{1}{4}}+\left(\frac{2}{10}\right)^{3\times\frac{1}{3}}+\left(\frac{3}{10}\right)^{2\times\frac{1}{2}}-1}{\left(\frac{125}{2}\times(2)^{5\times\frac{1}{5}}\right)^{\frac{1}{3}}} = \frac{\left(\frac{5}{10}\right)+\left(\frac{2}{10}\right)+\left(\frac{3}{10}\right)-1}{\left(\frac{125}{2}\times 2\right)^{\frac{1}{3}}} =$
$\Rightarrow \frac{\frac{10}{10}-1}{5} = \frac{1-1}{5} = 0$ Ans.

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10. **(c)** Let there be 5 articles and each costing Rs.5.
Hence, Total Cost Price $= 5 \times 5 =$ Rs. 25
$SP_1 = 3 \times 6 =$ Rs. 18
$SP_2 = 2 \times 5 =$ Rs. 10
Total Selling Price $=$ Rs. 28
$\therefore$ Profit % $= \frac{28-25}{25} \times 100 = \frac{3}{25} \times 100 = 12\%$ Ans.

11. **(d)** $x = \frac{24}{30} \times 100 = 80\%$
$y = \frac{28}{35} \times 100 = 80\%$
$x = y =$ same
(d) Statement I false, Statement II true

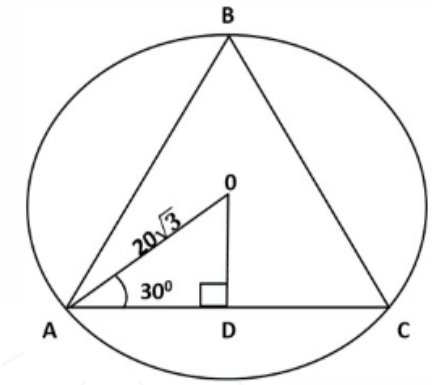
12. **(b)** Combining the two given ratios of a:b and b:c in single equivalent ratio a:b:c,

a	b	c
(5	3)x2	
	3x(2	5)
10	6	15

We can see, $10(a + c) \neq (c - a)$
$10a + 25b \neq (c - a)$
$\therefore$ (b) Both the statements are false.

13. **(d)** As we know, product of two numbers = product of their HCF and LCM
$x.y = HCF \times LCM = 1260$
$x + y = 72$ (given)
$\therefore \frac{1}{x} + \frac{1}{y} = \frac{1}{30} + \frac{1}{42} = \frac{x+y}{xy} = \frac{72}{1260} = \frac{2}{35}$

14. **(d)**



$\cos 30° = \frac{AD}{OA} \Rightarrow \frac{\sqrt{3}}{2} = \frac{AD}{20\sqrt{3}}$
$AD = 30$ cm
$\therefore 2AD = AC = 60$ cm Ans.

15. **(a)** Let number be 1,2,3,4,5
Their average will be 3.
Adding two more numbers in the list, we have1, 2, 3, 4, 5, 6, 7 whose average will be 4.
Hence average got increase by 1. (This can be generalized.) Ans.

16. **(b)** Ram will take 1 hour to reach B from A i.e. at 10:00AM
As Shyam is starting from A at 9:45AM, by 10:00AM i.e. in 15 min, Shyam would have only travelled 2.5 km.
(Note: Above data confirms that Ram and Shyam cannot meet while both are traveling from A to B)
10:00AM, this is the time when A will return from B.
The distance between Ram and Shyam at 10:00AM is 2.5km.
So, the time taken by them to meet after 10:00AM = $\frac{2.5}{10+5}$ = $\frac{1}{6}$hr. = 10 min.
So, they will meet at 10:10AM.

17. **(b)** Ram will take 1 hour to reach B from A i.e. at 10:00AM
As Shyam is starting from A at 9:45AM, by 10:00AM i.e. in 15 min, Shyam would have only travelled 2.5 km.
(Note: Above data confirms that Ram and Shyam cannot meet while both are traveling from A to B)
Shyam overtaking Ram, is only possible when both are returning from B to A.
Shyam will reach B at 10:15AM. By this time, Ram would have travelled return journey of 5x $\frac{1}{4}$ = 1.25km.
Now the time taken by Shyam to overtake Ram = $\frac{1.25}{10-5} = \frac{1}{4}$ hours after 10:15AM i.e. at 10:30AM.

18. **(c)** Ratio of efficiencies of A and B is 60% : 100% = 3: 5
Also given that ratio of time taken by B and C is 4: 5.
Hence, ratio of their efficiencies will be 1/4 : 1/5 = 5: 4
Combining the two ratios of efficiencies of A and B with that of ratio of efficiencies of B and C:

A	B	C
3	5	
	5	4
3	5	4

Let the efficiencies of A, B and C be 3, 5 and 4 units per day respectively.
Give that A and B together complete 80% of work in 12 days.
Their combined efficiency is (3+5) i.e. 8 units per day.
In 12 days they can complete 12x 8 units of work.
Equating this to 80% of total works,
80% of W = 12 x 8
⇨ W = 120 units
Also, its given that B and C together has to complete 60% of work (120 units) with their combined efficiency of (5+4) units per day i.e. 9 units per day.
So, the days required will be = (60% x 120)/ 9 = 8 days. Ans

19. **(d)** Let the roots of the equation $x^2 - px + 54 = 0$ be 2k and 3k
Product of roots = $54 = 2k.3k = 6k^2$
$\Rightarrow k = \pm 3$
Sum of roots $= p = 2k + 3k = 5k$
Hence, sum of roots = p = 5k = 5.(3) or 5.(-3) $\Rightarrow p = 15$ or -15. Ans.

20. **(c)**

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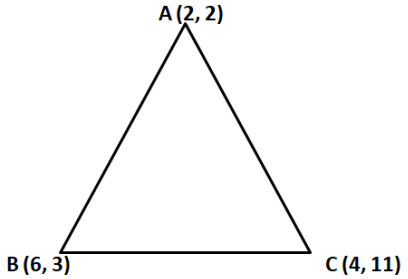


Distance formula AB = $\sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$, if coordinates of $A(x_1, y_1)$ & $B(x_2, y_2)$.
So, AB = $\sqrt{16+1} = \sqrt{17}$
BC = $\sqrt{4+64} = \sqrt{68} = 2\sqrt{17}$
AC = $\sqrt{4+81} = \sqrt{85}$
All sides are unequal and satisfy the Pythagoras theorem, $AB^2 + BC^2 = AC^2$ the above triangle will be "Right angled triangle". Ans.

21. **(d)** Sides of the triangles which satisfy the Pythagoras theorem, will form the right angle triangle.
So, check the sum of squares of the two smallest sides given in each option and the square of the largest side. The option for which both gets equal will be our answer.
Option (C): $(11)^2 + (60)^2 = (61)^2 = 3721$
Option (D): $(6)^2 + (8)^2 = (10)^2 = 100$
∴ Options (C) and (D) only. Ans.

22. **(b)** Surface area of a cube, SA = $6a^2$, where a is the side of the cube.
Here, SA is directly proportional to the square of the side of the cube.
Using the formula, % change in SA
$= \left(a + a + \frac{a^2}{100}\right)\%$ where a is the % change in the side.
% change in SA $= \left(-19 - 19 + \frac{(-19)\times(-19)}{100}\right)\%$
$= (-38 + 3.61) = -34.39\%$ Ans.

23. **(d)** Let the distance travelled in each part is 'd' km.
Average speed $= \frac{\text{Total distance covered}}{\text{Total time taken}} = \frac{d+d+d}{\frac{d}{a}+\frac{d}{b}+\frac{d}{c}} =$
$\frac{3d}{d\left(\frac{ab+bc+ac}{abc}\right)} = \frac{3abc}{ab+bc+ac}$ Ans.

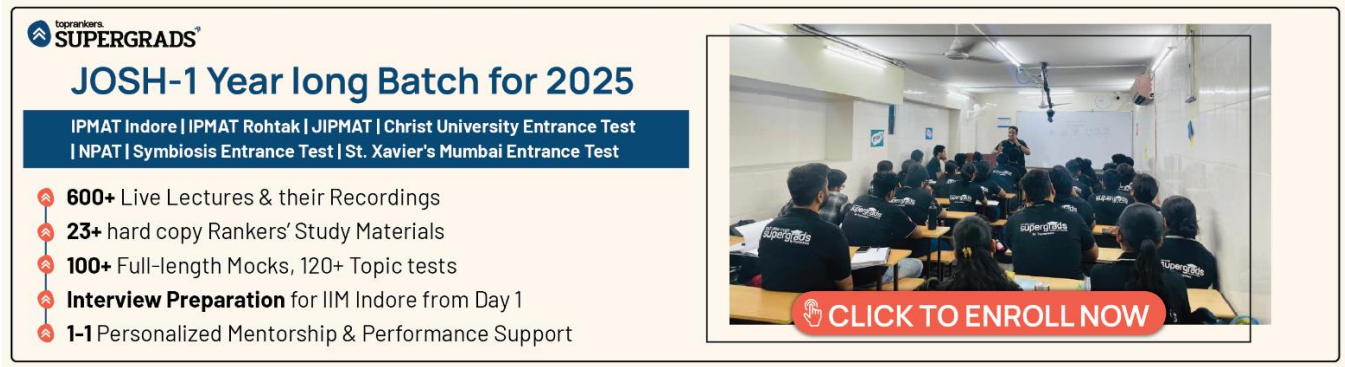
24. **(b)** $(\sin\theta + \cos\theta)^2 = \frac{7}{4} \Rightarrow 1 + 2\sin\theta.\cos\theta = \frac{7}{4}$
$\Rightarrow \sin\theta.\cos\theta = \frac{3}{8}$
Now, $(\sin\theta - \cos\theta)^2 = (\sin\theta + \cos\theta)^2 - 4\sin\theta.\cos\theta$
$\Rightarrow (\sin\theta - \cos\theta)^2 = \frac{7}{4} - 4 \times \frac{3}{8} = \frac{1}{4}$
$\Rightarrow \sin\theta - \cos\theta = \pm\frac{1}{2}$ Ans.

25. **(d)** Given: $SP_{2\ articles}$ = ₹ 800
∴ $SP_{1\ article}$ = ₹ 400
Also given that, $SP_{2\ articles}$ - $CP_{2\ articles}$ = $CP_{3\ articles}$
(Note: While calculating profit/loss the number of articles to be taken into consideration while selling and buying should be equal)
⇒ $SP_{2\ articles}$ = $CP_{5\ articles}$
⇒ ₹800 = $CP_{5\ articles}$
⇒ $CP_{1\ article}$ = ₹160
∴ Profit % $= \frac{SP - CP}{CP} \times 100 = \frac{400-160}{160} \times 100$
$= \frac{240}{160} \times 100 = 150\%$ Ans.

26. **(a)** Statement 1: $\frac{\cot 30°+1}{\cot 30°-1} = 2(\cos 30° + 1)$
$\frac{\sqrt{3}+1}{\sqrt{3}-1} = 2\left(\frac{\sqrt{3}}{2} + 1\right)$
$\frac{(\sqrt{3}+1)^2}{2} = \sqrt{3} + 2$
$2 + \sqrt{3} = 2 + \sqrt{3}$ True
Statement 2: $2\sin 45°.\cos 45° - \tan 45°.\cot 45°$
$\sin(2\times 45°) - 1 = \sin 90° - 1 = 1 - 1 = 0$ True

27. **(c)** Let $F(x) = x^2 - px - q$ & $Q(x) = 5x^2 - 3px - 15q$
As $x - 3$ is factor of each of the above two expressions, using factor theorem, F(3) = 0 & Q(x) = 0
⇒ $F(3) = (3)^2 - p(3) - q = 0$ ...eq.(i)
⇒ $Q(3) = 5(3)^2 - 3p(3) - 15q = 0$ ...eq.(ii)
Solving eq.(i) and eq.(ii), we get
$p = \frac{5}{2}$ & $q = \frac{3}{2}$
Thus, $(p, q) = \left(\frac{5}{2}, \frac{3}{2}\right)$ Ans.

28. **(c)** $f(x) = x^3 - 6x^2 + 11x - 6$
When x = 1, f(1) = 0
⇒ It means $(x - 1)$ is a factor of the given polynomial.
Dividing the polynomial $x^3 - 6x^2 + 11x - 6$ by (x-1) we get the quotient (x^2 -5x +6).
Factorizing the quotient, we get (x-2)(x-3)
Thus, $x^3 - 6x^2 + 11x - 6$ = (x-1)(x-2)(x-3) Ans



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29. **(a)** Number of gifts exchanged $= 15 \times 14 \times 2 = 15 \times 28$
Number of hugs $= \frac{15 \times 14}{2} = 15 \times 7$
Difference $= 15\times (28\text{-}7) = 15 \times 21 = 315$ Ans.

30. **(c)** Let A_T, B_T be percentage of truth spoken by A, B respectively and A_F, B_F be percentage of lies spoken by A, B respectively.
Then the probability of cases they contradict narrating the same incident $= A_T.B_F + B_T.A_F$
$= \frac{75}{100} \times \frac{20}{100} + \frac{80}{100} \times \frac{25}{10}$
$= \frac{3}{20} + \frac{4}{20} = \frac{7}{20}$
$= \frac{7}{20} \times 100 = 35\ \%$ Ans.

31. **(b)** General quadratic equation: $ax^2 + bx + c = 0$
Sum of roots : $\alpha + \beta = \frac{-b}{a}$; Product of roots : $\alpha\beta = \frac{c}{a}$
$\Rightarrow \frac{1}{a\alpha+b} + \frac{1}{a\beta+b} = \frac{a(\alpha+\beta)+2b}{(a^2\alpha\beta+ab\alpha+ab\beta+b^2)}$
$\Rightarrow \frac{a\times-\frac{a}{b}+2b}{a^2\times\frac{c}{a}+ ab\times\frac{-b}{a}+b^2} = \frac{b}{ac-b^2+b^2} = \frac{b}{ac}$ Ans.

32. **(c)** Remember:
If perimeter of polygons is constant then area of polynomials will increase with increase in sides.
And if the area of polygons is constant, then the perimeters will decrease with the increase in sides.
Hence, the ascending order of their perimeters: circle < pentagon < square < triangle.

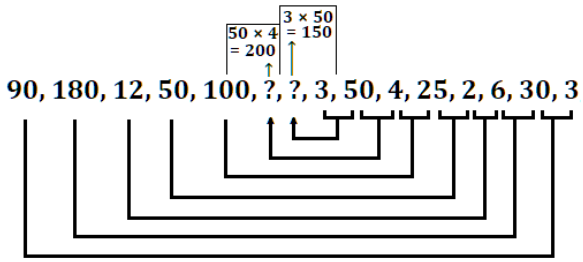
33. **(d)** $1 + \frac{1}{2} + \frac{1}{2^2} + \frac{1}{2^3} + \frac{1}{2^{n-1}}$
$S_n = \frac{a(1-\gamma^n)}{1-\gamma} \Rightarrow \frac{1\left(1-\left(\frac{1}{2}\right)^n\right)}{1-\frac{1}{2}} = \frac{2^n-1}{2^{n-1}}$
So Assestion is false & Reason true.
(d) option.

34. **(d)** Wednesday 10AM = 2 minutes (-)
Thursday 1PM = 2·5 minutes (+)
Total → 27 Hours = 4·5 min
So total gain minutes 4·5 minutes and time taken to gain those minutes are 27 hours.
To find correct time we have to find the numbers of hours to gain 2 minutes.
⇒ 4:5 minutes = 27 hours
⇒ 1 minute = 27/4·5 hours
⇒ 2 minutes $= \frac{270}{4\cdot5} \times 2$ hours
⇒ 2 minutes = 12 hours
⇒ So 12 hours from Wednesday 10AM that is Wednesday 10PM
Option (d) is correct answer.

35. **(c)** Conclusion 1 cannot be concluded from the given statement as the given statement does not indicate that conventional mode of energy is gradually getting replaced by modern technology. Hence, conclusion 1 is incorrect. Conclusion 2 is also incorrect as it is completely out of context. This statement does not state that excessive exploitation of the environment is responsible for depletion of non-renewable sources of energy.
Thus, the correct answer is (C) i.e. Neither conclusion (1) nor (2) follows.

36. **(d)** As per given exceptions, numbers in only B and C is following the code for 'YH$ME*'
Option (d) is correct.

37. **(d)**



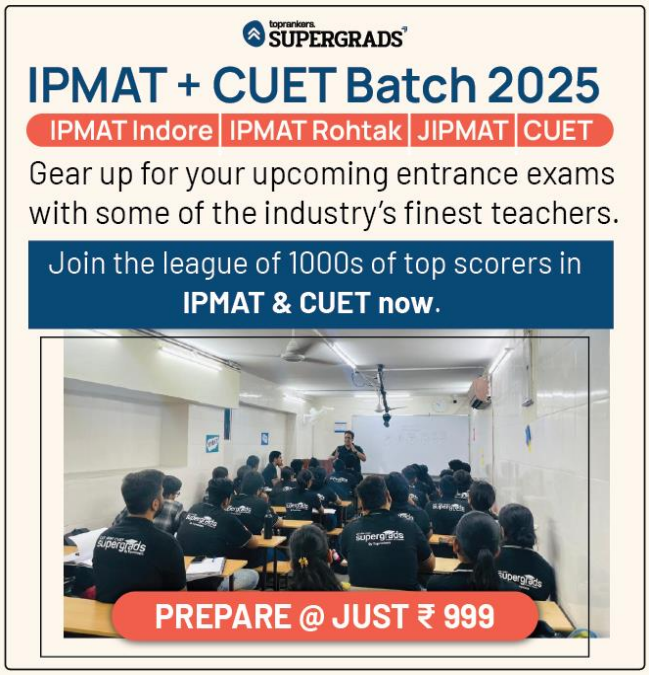
Hence correct option is (b).

38. **(d)**

Person	A	B	C	D	E
City	Mumbai	Kolkata	Bangalore	Pune	Train
Mode of transport	Bus	Aeroplane	Car	Boat	Train

Hence options (d) is correct answer.

39. **(a)** Here, we can use option elimination methoed-
In list I, (B) : missing number is 9, which is given in (III) in list II, so (B) – (III) is valid combination.
As, 3 9 81 6561.
Also in list I, (D) : according to following logic the missing number is 38 and so (D) – (II) is valid combination.
9 13 22 38
+4 +9 +16
∴ Only option (a) is satisfiying matched values.
So option (a) is correct answer.



40. **(d)** A2Y, B8V, D33R, _____, K765G
First letter in each term is related as-

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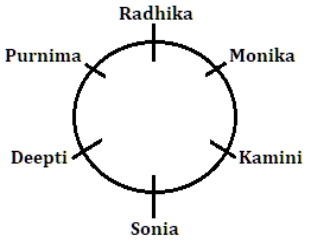
A + 1 – B, B + 2 = D, so D + 3 = $\boxed{G}$ and G + 4 = K on the basis of first letter, we can eliminats option (2) and (3), as 'G' is not first letter in these options.
now, check second number in each term

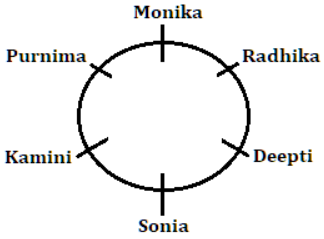
2 8 33 148 765
×2+4 ×3+9 ×4+16 ×5+25

So the missing number is 148, and the only option with 148 is option (d).
Hense correct answer is option (d).

41. **(a)**

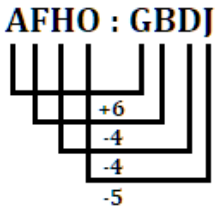


After exchange –

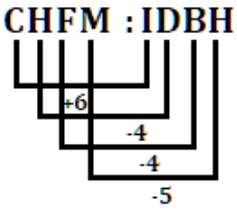


Hence, Sonia is sitting to the left of Deepti option (a) is correct.

42. **(d)**



Similarly,



Hence options (d) is correct answer.

43. **(b)** Here, we can use option elimination method-
In list I, (A):

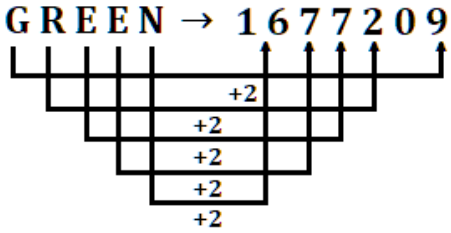
8 13 21 32 46 63 83
5 8 11 14 17 20

and in (D):

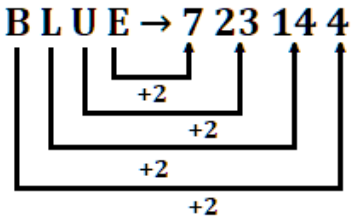
6 13 25 51 101
×2+1 ×2-1 ×2+1 ×2-1

So, only option (b) is satisfying these values.
Hence option (b) is correct answer.

44. **(a)**

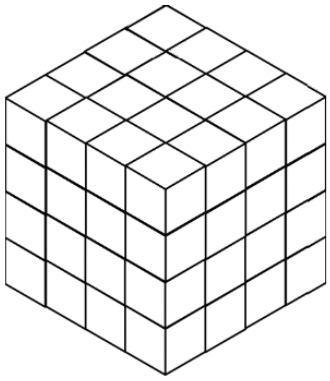


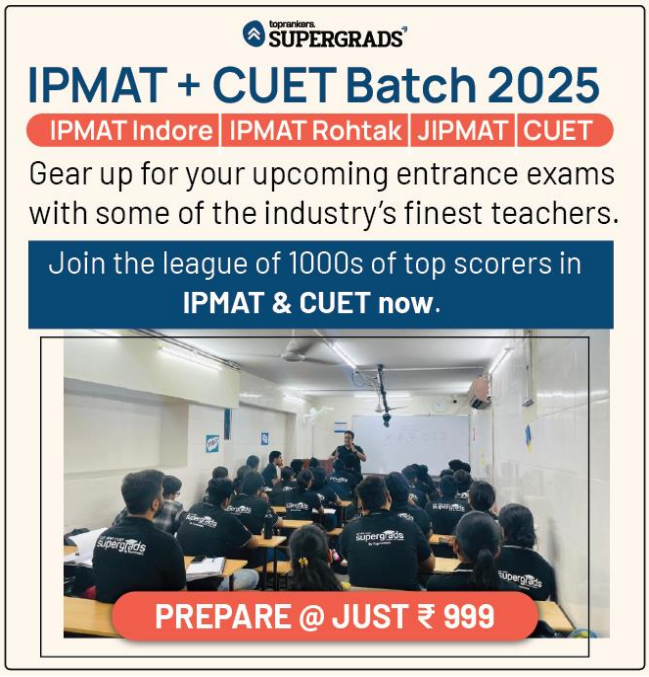
Similarly,



Hence option (a) is correct.

45. **(c)**





Cube is colored Red on all of its faces

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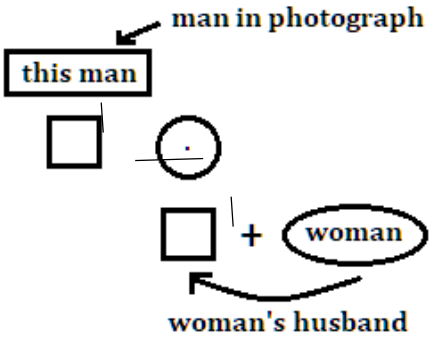
The number of smaller cubes with three surfaces painted = 8 (at corners)
The number of smaller cubes with two surfaces painted = 2 (on middle of the edge) × 12 (Number of edges)
The number of smaller cubes with one surface painted = 4 (on middle of the surface) × 6 (Number of surfaces)
The number of smaller cubes with no surface painted = $(a - 2)^3$
where a = number of small cubes on an edge = 4
∴ = $(4-2)^3$
= $2^3 = 8$
Hence option (c) is correct.

46. **(a)** Tuberculosis – An infections disease that can cause infection in your lungs or other tissue.
(1) Diphtheria – A bacterial infection that usually affects the mucous membranes of the nose and throat.
(2) Measles – A viral disease that causes fever and a rash.
(3) Typhoid – An illness caused by the bacterium salmonella Typhi.

47. **(a)**



∴ woman's husband is grandson of man in photograph.
Hence options (a) is correct.

48. **(a)** The given assertion is true. Whenever lightning strikes, the light is seen first and then the sound is heard. The scientific explanation behind this observation is the difference between the speed of light and the speed of sound. The speed of light in air is 300,000 km/s whereas the speed of sound in air is 343 m/s. Thus, the speed of light is greater than the speed of sound due to which light is observed first and then the sound is heard. Hence, the given reason is also true, and the given reason explains the assertion.
Thus, the answer is (a) i.e. Both Assertion (A) and Reason (R) are true and (R) is the correct explanation of (A).

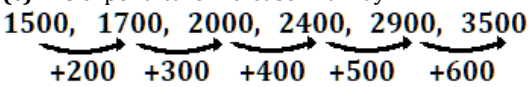
49. **(d)** Logic first prevenet the second.
Conscience: wrong → wrong action can be prevented by conscience.
(Conscience is the part of the personali by that helps to determine between right and wrong).
Similarly,
Police: crime → crime is prevented by the police
Hence crime is the correct ansewr
Option (d) is correct.

50. **(d)** As, number of notes of each denomination is equal.
So, two- rupee notes = ten-rupee notes = fifty-rupee notes = x
∴ 2x + 10x + 50x = 620
62x = 620
x = 620/62
x = 10
∴ Total notes of two- rupee notes, ten-rupee notes and fifty-rupee notes = x + x + x
= 3x
= 3 × 10
Total notes = 30. Ans

51. **(c)** The percentage increase in expenses on Education = $\frac{300-150}{150} \times 100 = 100\%$
Option (c) is correct.

52. **(b)** Expenditure on House rent = 1050
Total expenditure = 10500
∴ % expenditure Rent = 1050/10500 × 100 = 10%
Option (b) is correct.

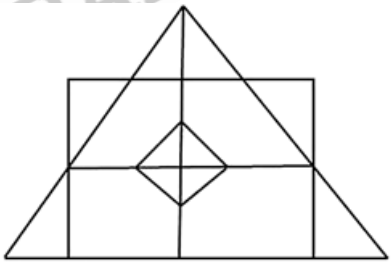
53. **(c)** As expenditure increase in a way



∴ 3500 × 1000 = 35,00,000
Option (c) is correct.

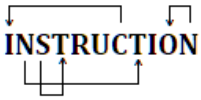
54. **(b)** CHARTER cannot be formed due to letter 'H'.
Hence option (b) is correct answer.

55. **(c)**



Total triangles in this figure are 21.
Hence correct answer is options (c).

56. **(c)**



NT, ST, NO and CI are four pairs of letters.
Hence answer is option (d).

57. **(a)** We need to analyze whether we should declare public holidays on the demise of important public leaders. Argument 1 is a strong argument. There are many important national leaders and declaring a public holiday on the demise of each one of them will cause the work to suffer as unscheduled and untimely holidays would naturally be troublesome, which is unacceptable. However, argument 2 is weak as a holiday is not necessary to pay homage to someone. One can pay homage to an important national leader even in the absence of a public holiday. Thus, the answer is (1) i.e. only Argument (1) is strong.
Hence answer is option (a).

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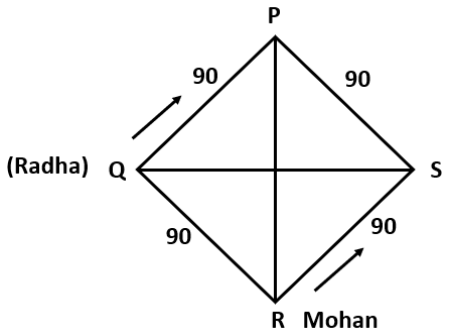
58. **(c)** Miscellaneous charges = 4% → 6000
1% → 1500
Now, (Binding and Cutting) – (Royalty) = (18 - 15)%= 3%
⇒ 3 × 1% = 3x1500 = Rs.4500

59. **(d)**



As, Radha moving from Q clock wise and Mohan From R Anti Clockwise .
First time they meet when they combine cover 270 m and second time when they cover total 360m +270m = 630 m
As their speed Ratio is 4:5
Radha meet $\frac{4}{9}$ x 630 = 280 m from point Q in Clock wise Direction
i.e, on QR at a distance of 10 m from R.
Option (d) is correct answer.

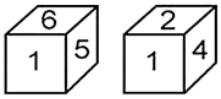
60. **(b)** Percentage change = $\frac{(12.5-3)}{3} \times 100 \Rightarrow \frac{9.5}{3} \times 100$
= 3.166 × 100 = 316.66% = 317% (approx.)

61. **(a)** '9' represent the uneducated women, who have a government job as well as a job in private sector.
Hence answer is option (a).

62. **(b)** According to Prakash, Roshni's birthday May be on any one of date 21, 22, 23, 24, 25, 26 or 27 May But according to Jyoti, Roshini's birthday may be on any one of the date 27 28 29 May.
So the common date is 27 May.
Hence option (b) is correct.

63. **(c)** Total expenditure in 2016 = 5800
Gross Traffic Receipts in 2016, in order to
Make 10% Profit = 5800 + 10% of 5800
= 5800 (1+0.1)
=5800 x 1.1
= ₹ 6380

64. **(d)** By **using** rule 1 (As discussed in the class),
According to views first and last-



5 is opposite to 4.
Hence option (d) is correct.

65. **(c)** When we unscramble the letters, we will get-
POROT – TROOP (Soldiers or armed forces)
ROPUG – GROUP (A number of people or things that are located close together.
BMO – MOB (A Large crowd of people that is disorderly and intent on causing trouble or violence).
SALCS – CLASS (A set of category of things having some properly or attribute in common)
Answer is option (c).

66. **(b)** Difference = (35% – 18%) = 17%
$\frac{17}{100} \times 360° = \frac{306°}{5}$ = 61.2°

67. **(d)** "Ultra vires" is a Latin phrase meaning "beyond the powers/authority." In legal contexts, it refers to actions taken by an individual or entity that are beyond the ambit of the power granted to them by law.

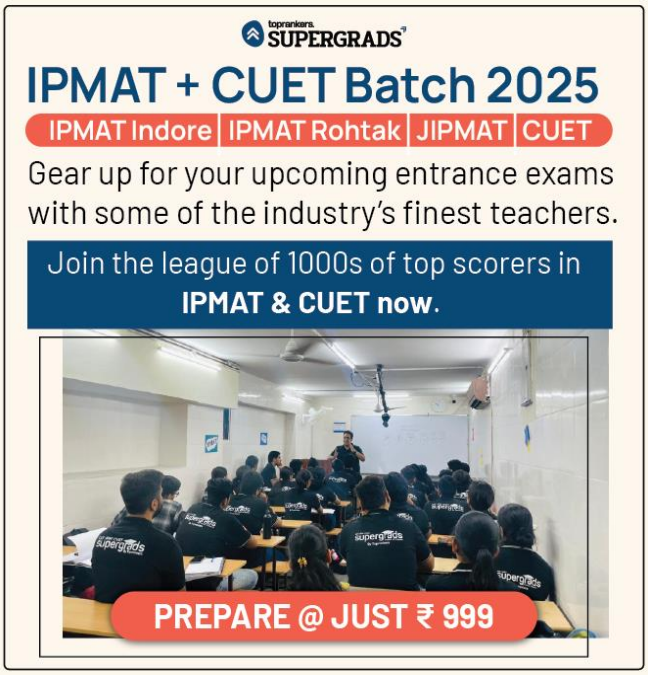
68. **(b)** The sentence in question involves a future perfect continuous tense, which is used to indicate that an action will have been happening for a certain period of time by a specific future moment.

69. **(b)** The subject of the sentence "All the students and teachers" is plural, as it refers to multiple students and teachers. Therefore, the verb must also be in the plural form.

70. **(b)** In the original sentence, the phrase "since five years" is incorrect. The correct usage is "for five years" when referring to a duration of time. Additionally, "had already been teaching" is the appropriate tense to indicate that Dr. Anand's teaching began five years before Dr. Sapra arrived and continued up to that point.

71. **(c)** The exclamation mark is the most appropriate punctuation mark because the sentence "There goes the bell!" conveys a sense of suddenness, urgency, or excitement. This punctuation emphasizes the immediate and noticeable action of the bell ringing, which typically evokes a strong reaction.

72. **(c)** "Hackneyed" refers to something that is overused and unoriginal, much like a cliché.



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73. **(b)** The phrase "at large" in this context suggests being free from a specific role or responsibility, implying that the person is not engaged in any particular employment. Therefore, "a gentleman at large" refers to a man who is currently without a job.
74. **(c)** A "Philistine" is a person who is indifferent or hostile to culture and the arts
75. **(d)** The phrase "public purse" refers to government funds or money that comes from taxpayers and is managed by the government.
76. **(c)** "Dilate" means to make or become wider, larger, or more open. The opposite of this action is to contract, which means to make or become narrower, smaller, or more closed.
77. **(b)** Correct answer: (b) – came for seeing you
The phrase "came for seeing you" is incorrect. The correct phrase should be "came to see you."
78. **(d)** In passive voice, the object of the active sentence ("you") becomes the subject of the passive sentence, and the subject of the active sentence ("the taxi") becomes the agent, introduced by "by." The verb is also changed to its passive form, which includes a form of "to be" (in this case, "will be") followed by the past participle of the main verb ("dropped").
79. **(d)** In indirect speech, the tense often shifts back one step in time from the original direct speech.
Here's how it breaks down:
Original direct speech: "Well done! You have made me proud."
Indirect speech: The coach (past tense) applauded (past tense) and said (past tense) that he had made him proud.
80. **(d)** The phrasal verbs (a), (b), and (c) all relate to the act of planning in some way—either preparing for something, intending to do something, or mapping out a detailed strategy. However, "plan in" does not fit into this pattern of usage and is not commonly recognized as a phrasal verb with a distinct meaning related to planning.
81. **(b)** The passive is in passive voice and in present continuous tense, so while changing it into active voice, 'The national anthem' will become the subject and 'The players' will becometh object, besides we will also use helping verbs of the present tense.
82. **(b)** The passage contrasts two ways economists might use the concept of maximization: either through explicit reasoning or by implicit presumption. The conjunction "or" is used to present these two options as alternatives.
83. **(a)** the correct word should describe the type of choices people may not be looking for. "Rational" is an adjective that appropriately modifies the noun "choices," indicating that people may not seek fully logical or reasonable choices due to their lack of focus.
84. **(b)** The correct word should indicate who has presented the considerable evidence. "By" is the appropriate preposition to use in this context as it identifies the agents (Kahneman, Slovic, and Tversky) who have presented the evidence
85. **(b)** The word "invariably" is an adverb that means always or without exception, which fits well with the context of the sentence, as it questions whether people are always guided by reason.
86. **(d)** The word "validity" refers to the quality of being logically or factually sound, which aligns with the idea of something being true or correct in a systematic body of knowledge like sastra (which means any systematic, well-formulated body of knowledge). It involves inquiry into the nature of substance and language, and the validity of critical statements implies assessing their logical coherence and truthfulness
87. **(b)** "Panini discusses, in a few sutras scattered over his works, the influence of the concept of language in various spheres of suffixes, primary and secondary derivatives and compounds."
This indicates that Panini primarily discussed the influence of language on various linguistic elements such as suffixes, primary and secondary derivatives, and compounds. This aligns with option (b), which states the impact of language on derivative words.

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88. **(d)** (A)Literary criticism must use either textual or contextual study.
This statement is false according to the passage. It states that literary criticism does not necessarily have to choose between textual or contextual study.
(B) Formal and textual are two levels and help in ascertaining linguistic meaning.
This statement is true. The passage discusses the distinction between formal and textual levels of linguistic meaning in poetry.
(C) Critical questions cannot be understood without a philosophical and grammatical understanding.
This statement is true. The passage mentions that a basic understanding of grammatical and philosophical issues is essential for understanding critical questions.
(D) Panini has written in a compact format of Sutras.
This statement is true. The passage mentions that Panini discusses various linguistic concepts in sutras scattered throughout his works.
(E) Sanskrit has a tradition of literary criticism for a long time.
This statement is true. The passage mentions that literary criticism in the Sanskrit tradition is understood as a sastra, indicating a long-standing tradition.

89. **(b)** The sentence in question involves a future perfect continuous tense, which is used to indicate that an action will have been happening for a certain period of time by a specific future moment.

90. **(c)** Statement I: The author upholds the Baconian theory because, according to him, despite being a genius, Shakespeare could not write the plays and sonnets that have come down to us under his name.
This statement aligns with the author's perspective as expressed in the paragraph. The author suggests that the education and intellectual background required to produce Shakespeare's works could more feasibly be attributed to someone like Bacon, hence supporting the Baconian theory.
Statement II: He holds that Bacon was more resourceful than Shakespeare because he had the liberal education.
This statement is not explicitly supported by the paragraph. While the author does argue in favor of Bacon's education as a factor in the authorship debate, the text does not directly compare Bacon's resourcefulness to Shakespeare's.

91. **(c)** The phrase "the pale cast of thought" suggests a state of mind that is sombre, melancholic, and perhaps tinged with a sense of disillusionment or dissatisfaction. It implies a mood or mental state that is not bright or lively, but rather characterized by introspection and deep contemplation, often leading to a serious and introspective outlook.

92. **(b)** Assertion (A): The passage presents a rationale behind the great writers' flight to the solitude of their thoughts and silent companionship of immortals.
This assertion is correct. The passage indeed discusses why great thinkers and writers seek solitude and companionship with intellectual ideals ("the immortals").
Reason (R): They do so because they are melancholic and naturally averse to ordinary humanity and disgust of unregenerated masses.
While the passage mentions that such thinkers may feel a sense of discontent or pride on the intellectual plane, it does not directly state that they are naturally averse to ordinary humanity or feel disgust towards others. The passage emphasizes a preference for ideal companionship and a pursuit of intellectual contemplation rather than disdain for humanity.

93. **(a)** (A) Because they want to enjoy harmony and serenity from ideal companionship.
This aligns with the idea presented in the paragraph that great thinkers seek a high plane of thought to attain harmony and serenity through ideal companionship with spirits like themselves.
(B) Because the experience of greatness makes them impatient of being ordinary men.
This reflects the sentiment expressed in the paragraph about how great thinkers, through their interaction with high intellectual pursuits, become impatient with the limitations of ordinary life.
(C) Because the high plane of intellectual life instills a spiritual and intellectual pride in them.
This is supported by the paragraph's mention of spiritual or intellectual pride being engendered on the high plane of thought.
(D) Because they are apathetic to commoners and solely eager to attain lofty ideals.
This is not supported by the paragraph. The author does not suggest apathy towards commoners but rather a preference for intellectual pursuits and ideal companionship.

94. **(d)** Up for grabs – Available for anyone interested
Make hay while the Sun shines – To use opportunities while they last
Go haywire – Become out of control
Get off lightly – To be punished less severely than expected

95. **(c)** (A) "I shall speak"
This is a statement about an action that will happen in the future without any emphasis on its duration or completion.
(B) "I shall have spoken"
This indicates an action that will be completed before a specific time in the future.
(C) "I shall have been speaking"
This indicates an action that will have been ongoing for a period of time before a certain point in the future.
(D) "I shall be speaking"
This indicates an action that will be in progress at a specific time in the future.

96. **(d)** "All men are mortal."
Here, "all" is used as an adjective modifying the noun "men."
So, (A) - (IV) Adjective.
(B) "He was all alone when I saw him."
Here, "all" is used as an adverb modifying the adjective "alone."

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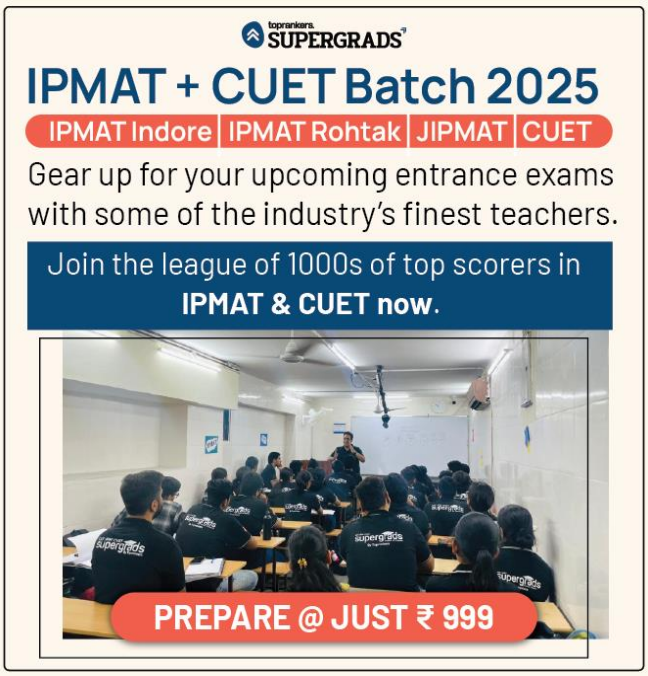
So, (B) - (III) Adverb.
(C) "All spoke in his favour."
Here, "all" is used as a pronoun referring to all people.
So, (C) - (II) Pronoun.
(D) "He lost his all in speculation."
Here, "all" is used as a noun meaning everything he had.
So, (D) - (I) Noun.

97. **(a)** (A) "The economist were of the opinion"
The subject "economist" should be plural ("economists") to match the verb "were." It should be "The economists were of the opinion."
(B) "that the government should give longer times to farmers"
The phrase "longer times" is awkward and incorrect. It should be "more time" to be grammatically correct. It should be "that the government should give more time to farmers."

98. **(b)** Correct answer: (b) – Shall have been waiting
Explanation: (B) starts by introducing almonds.
"Almonds are commonly called nuts"
(C) clarifies they are actually seeds.
"but they are actually seeds"
(D) mentions they come from a tree.
"and they come from a tree"
(A) specifies the type of tree.
"that is closely related to the peach tree"

99. **(d)** (C) introduces the topic with a question about education.
(D) outlines the goal of creating a just and humane society.
(A) states the need for people with both skills and values to achieve this goal.
(B) concludes by emphasizing the need for both skill-based and value-based education.



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Final Selections in IPM & Other BBA Entrances in 2023

CONSISTENTLY DELIVERING TRUST & AUTHENTIC RESULTS IN

QUANTITY & QUALITY

IPM INDORE (20+ Final Selections)

Hirday, Seerat, Sambhav, Tanish, Harshvardhan, Bhavinee, Aryan, Jishnu, shreyash, Sreehari, Eklavya, Raj, Jeyanth, G Rajlakshmi, Ajeet, Pradhuman, Harshdeo, Yash

& MANY MORE

IPM ROHTAK (30+ Final Selections)

Aaditya, Aaradhya, Aastha, Abhyudaya, Alok, Ambica, Amlan, Ansh, Arjun, Arsh, Aryan, Bhaavya, Bhaavya, Chhavi, Divya, Hardik, Harshavardhan, Karthik, Jayaditya, Kartik, Kartikay, Kashvi, Kshitij, Lavisha, Mahika, Kavy, Mahima, Meghanshu, Mukul, Ojas

& MANY MORE