21/05/2023

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Answers & Solutions

Time : 60 min. *for* **M.M. : 250**

CUET UG-2023

(General Test)

IMPORTANT INSTRUCTIONS:

1. The duration of this test is 60 minutes.
2. The test contains 60 questions out of which 50 questions need to be attempted.
3. Marking Scheme of the test:
   a. Correct answer or the most appropriate answer: Five marks (+5)
   b. Any incorrect option marked will be given minus one mark (–1).
   c. Unanswered/Marked for Review will be given no mark (0).

Choose the correct answer :

1. How many terms are there in the A.P. 3, 7, 11, ... 407?

   (1) 100

   (2) 101

   (3) 99

   (4) 102

Answer (4)

Sol. Given 3, 7, 11, ... 407

So given sequence in A.P, with a = 3, d = 4

Now $T_n = 407$

$\Rightarrow$ a + (n – 1)d = 407

$\Rightarrow$ 3 + (n – 1)4 = 407

$\Rightarrow$ n = 102

2. Match List I with List II

List I		List II	
A.	Blue Revolution	I.	Increase in crop yield and Agricultural Products
B.	White Revolution	II.	Increase in Oil-Seeds Production
C.	Yellow Revolution	III.	Increase of Fish Production
D.	Green Revolution	IV.	Increase in the field of milk production

Choose the most appropriate answer from the options given below:

(1) A-IV, B-III, C-II, D-I (2) A-III, B-IV, C-II, D-I

(3) A-I, B-III, C-II, D-IV (4) A-III, B-I, C-II, D-IV

Answer (2)

Sol.

List I		List II	
A.	Blue Revolution	III.	Increase of fish production
B.	White Revolution	IV.	Increase in the field of milk production
C.	Yellow Revolution	II.	Increase in oil-seeds production
D.	Green Revolution	I.	Increase in crop yield and agricultural products

Option :- (2) is correct

3. If selling price of 80 articles is equal to the cost price of 100 articles, then find the gain percentage

(1) 30% (2) 25%

(3) 40% (4) 50%

Answer (2)

Sol. $100 \times CP = 80 \times SP$

$$\frac{SP}{CP} = \frac{100}{80} = \frac{5}{4}$$

$$\text{gain\%} = \left(\frac{5}{4} - 1\right) \times 100$$

$$= \frac{1}{4} \times 100 = 25\%$$

4. What is the probability that any non-leap year will have 53 Sundays?

(1) $\frac{1}{53}$ (2) $\frac{2}{53}$

(3) $\frac{1}{7}$ (4) $\frac{2}{7}$

Answer (3)

Sol. Any non-leap year has 365 days = 52 weeks + 1 day extra.

In 52 weeks 52 Sundays are confirmed and 1 extra day will be any day of 7 days of week.

So probability of getting Sunday in this week = $\frac{1}{7}$.

5. A man walks 2 km towards East and then he turns to South and walks 6 km. Again he turns to East and walks 4 km, after this he turns to North and walks 14 km. How far is he from his starting point?

(1) 10 km

(2) 15 km

(3) 20 km

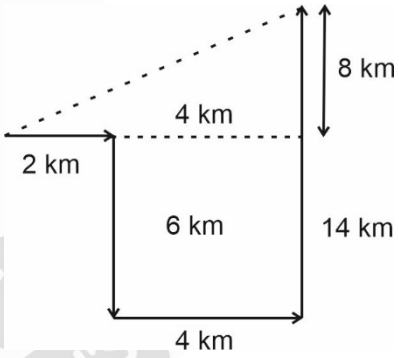
(4) 25 km

Answer (1)

Sol. Using Pythagoras theorem

$H^2 = P^2 + B^2$

$H^2 = 64 + 36$



$H^2 = 100$

$H = \sqrt{100}$

H = 10 km.

So, he is 10 km away from his starting point.

6. Statements.

I. Some cars are black

II. Some Lions are cars

Conclusion

I. Some blacks are Lions

II. No black is Lion

(1) Only I follow

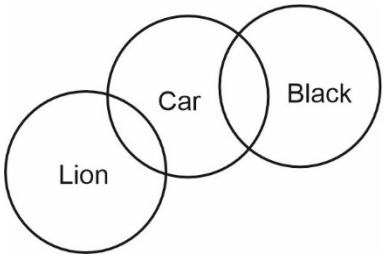
(2) Only II follow

(3) Either I or II follows

(4) None follows

Answer (4)

Sol.



I. X → No relation given between black and Lion in statement.

II. X → There is no any negative statement.

7. Find a single equivalent increase if the number is successively increased by 20%, 25% and 30%

(1) 75% (2) 85%

(3) 95% (4) 35%

Answer (3)

Sol. Let original number = 100

Then after 20% it will be = 120

After 25% increase it will be = 120 × 125% = 150

After 30% increase it will be = 150 × 130% = 195

So, single increase = $\frac{195-100}{100}\times 100 = 95\%$

8. What is the smallest square number which is divisible by 4, 6 and 32?

(1) 100 (2) 196

(3) 96 (4) 576

Answer (4)

Sol. L.C.M of 4, 6 and 32 = 96 = 2 × 2 × 2 × 2 × 2 × 3

2 and 3 are not in pairs, so we multiply them to 96

$\Rightarrow$ 96 × 2 × 3 = 576

9. Find out which of the figures out of given option can be formed from the pieces given in fig (X)

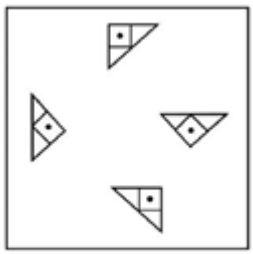
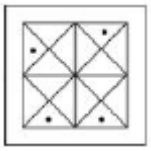
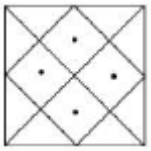
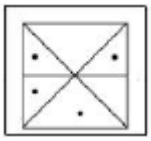


Fig (X)

(1) 

(2) 

(3) 

(4) None of these

Answer (2)

Sol. By observation

10. **Statement I :** Constitution is the frame work for the governance of a country which delegates power and authority to the executive, legislative and judiciary.

Statement II : It serves a country in maintaining good relationships with her neighbouring countries.

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

(1) Both Statement I and Statement II are correct

(2) Both Statement I and Statement II are incorrect

(3) Statement I is correct but Statement II is incorrect

(4) Statement I is incorrect but Statement II is correct

Answer (1)

Sol. **Statement-I :** Constitution of India provides for delegation of power and authority among three organs of state viz executive, legislative and judiciary. Thus, it is true statement

Statement-II : Constitution through Article 51 provides for maintenance of international peace and good relationships with her neighbouring countries.

Thus, this statement is also true.

11. What sum of money will amount to Rs. 520 in 5 years and to Rs. 568 in 7 years on simple interest?

(1) Rs. 400 (2) Rs. 120

(3) Rs. 510 (4) Rs. 220

Answer (1)

Sol. Amount in 5 years = Rs. 520

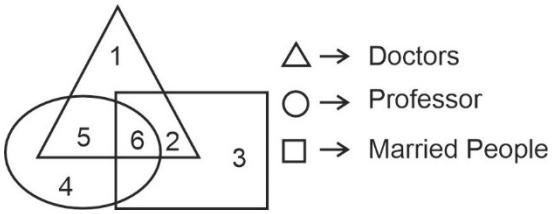
Amount in 7 years = Rs. 568

Interest of one year = $\frac{48}{2}$ = Rs. 24

Interest of 5 years = 24 × 5 = Rs. 120

So sum = 520 – 120 = Rs. 400

12. In figure out which Number indicate doctors who are not married?

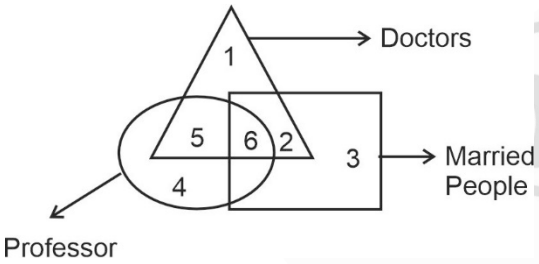


(1) 2 (2) 4

(3) 1 (4) 6

Answer (4)

Sol.



(5 + 1) number indicates doctors who are not married.

13. Match List I with List II

List I Scientists		List II Discoveries	
A.	Har Gobind Khorana	I.	Discovery of Zero
B.	C.V Raman	II.	Genetic composition of cell
C.	Jagdish Chandra Bose	III.	Scattering of light
D.	Aryabhata	IV.	Measurement of plant growth

Choose the most appropriate answer from the options given below:

(1) A-II, B-III, C-I, D-IV (2) A-III, B-II, C-IV, D-I

(3) A-II, B-III, C-IV, D-I (4) A-I, B-III, C-II, D-IV

Answer (3)

Sol.

List-I		List-II	
A.	Har Gobind Khorana	II.	Genetic composition of cell
B.	C.V. Raman	III.	Scattering of light
C.	Jagdish Chandra Bose	IV.	Measurement of plant growth
D.	Aryabhata	I.	Discovery of zero

14. A bag contains 5 black, 3 white and 2 red balls. Three balls are drawn in succession. What is the probability that the first ball is red, the second ball is black and the third ball is white?

(1) $\frac{1}{24}$ (2) $\frac{3}{10}$

(3) $\frac{1}{10}$ (4) $\frac{1}{2}$

Answer (1)

Sol. $\frac{2}{10}\times\frac{5}{9}\times\frac{3}{8}=\frac{1}{24}$

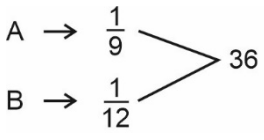
15. A and B can do a work in 9 days and 12 days respectively. If they work on alternate days starting with A, then in how many days will the work be completed?

(1) 36 days (2) 10 days

(3) $10\frac{1}{4}$ days (4) 13 days

Answer (3)

Sol.



$\frac{36}{7}$ = 5 (1 rem) means 10 days and 1 unit work is remaining which is done by A = $\frac{1}{4}$

So, total to be taken = $10\frac{1}{4}$ days.

16. If the median of $\frac{x}{5}, x, \frac{x}{4}, \frac{x}{2}$ and $\frac{x}{3}$ (where $x > 0$) is 8, then the value of x will be

(1) 24 (2) 32

(3) 8 (4) 16

Answer (1)

Sol. Arrange in ascending order $\rightarrow \frac{x}{5}, \frac{x}{4}, \frac{x}{3}, \frac{x}{2}, x$

Middle value = $\frac{x}{3} = 8$

$\Rightarrow x = 24$.

17. Which of the following is not a 'state'?

(1) Nagaland (2) Manipur

(3) Ladakh (4) Meghalaya

Answer (3)

Sol. Among the given options,

Ladakh is correct because it has been made a Union Territory by The Jammu and Kashmir Reorganisation Act 2019.

18. Find the next term in the alpha-numeric series D4T, F9R, H20P, J43N.

(1) L 90 M (2) N 90 N

(3) L 90 L (4) J 90 L

Answer (3)

Sol. D 4 T, F 9 R, H 20 P, J 43 N, **L 90 L**

First letter = +2

Middle number

= (× 2 + 1), (× 2 + 2), (× 2 + 3), (× 2 + 4)

Last letter = –2

19. Match List I with List II

List I Deficiency		List II Diseases	
A.	Insulin	I.	Kwashiorkor
B.	Protein	II.	Scurvy
C.	Thyroxin	III.	Diabetes
D.	Vitamin C	IV.	Goitre

Choose the correct answer from the options given below:

(1) A-III, B-I, C-IV, D-II (2) A-I, B-III, C-IV, D-II

(3) A-II, B-I, C-IV, D-III (4) A-IV, B-III, C-II, D-I

Answer (1)

Sol.

List-I		List-II	
A.	Insulin	III.	Diabetes
B.	Protein	I.	Kwashiorkor
C.	Thyroxin	IV.	Goitre
D.	Vitamin C	II.	Scurvy

20. The point (–2, 3) lies in which quadrant?

(1) I (2) II

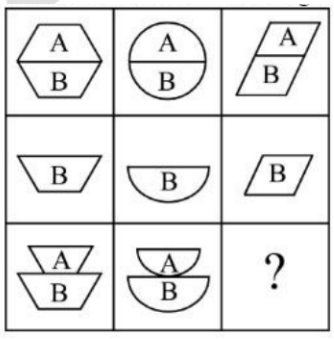
(3) III (4) IV

Answer (2)

Sol. (–2, 3) here x is negative and y is positive.

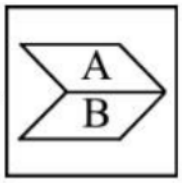
So this point lies in 2nd quadrant.

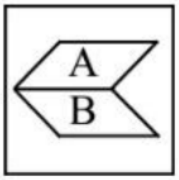
21. Find out which of the answer figures (1), (2), (3) and (4) completed the figure matrix?



(1) 

(2) 

(3) 

(4) 

Answer (3)

Sol. By observation

22. Which of the following speeds is the least?

(1) 50 meter/second

(2) 50 meter/minute

(3) 70 km/hour

(4) 5 km/minute

Answer (2)

Sol. 50 m/s $\rightarrow$ 180 km/h

50 m/min $\rightarrow$ 3 km/h

70 km/h $\rightarrow$ 70 km/h

5 km/min $\rightarrow$ 300 km/h

So 50 m/min is the least

23. In a class boys stand in a single line. One of the boys is seventeenth in order from both the ends. How many boys are in the class?

(1) 34 (2) 33

(3) 32 (4) 27

Answer (2)

Sol. $Rank_1 \rightarrow 17$

$Rank_2 \rightarrow 17$

Total = $(R_1 + R_2) - 1$

$= 34 - 1 = 33$

24. Match List I with List II Cities with their nicknames

List I Cities		List II Nickname	
A.	Nagpur	I.	Diamond City
B.	Surat	II.	Pink City
C.	Jaisalmer	III.	Orange City
D	Jaipur	IV.	Golden City

Choose the most appropriate answer from the option given below:

(1) A-III, B-I, C-IV, D-II (2) A-I, B-III, C-IV, D-II

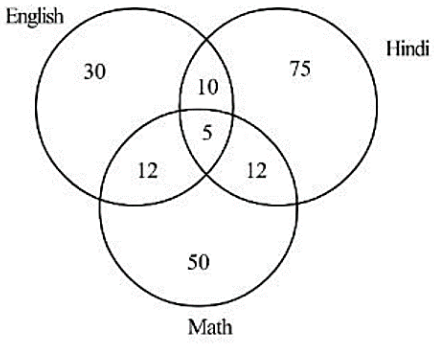
(3) A-III, B-I, C-II, D-IV (4) A-II, B-I, C-III, D-IV

Answer (1)

Sol.

List-I Cities		List-II Nickname	
A.	Nagpur	III.	Orange City
B.	Surat	I.	Diamond City
C.	Jaisalmer	IV.	Golden City
D	Jaipur	II.	Pink City

25. Consider the Diagram.



500 Candidates appeared in an Examination comprising test in English, Hindi and Maths. The Diagram gives number of students who failed in different tests. What is the% percentage of student who failed at least two subjects?

(1) 6.8% (2) 7.8%

(3) 1.0% (4) 0.078%

Answer (2)

Sol. No. of students failed in atleast two subjects

$= 10 + 5 + 12 + 12 = 39$

Percentage = $\frac{39}{500} \times 100 = 7.8\%$

26. The area of a circle is numerically equal to its circumference. Find the diameter of the circle.

(1) 2 unit (2) 4 unit

(3) 1 unit (4) 5 unit

Answer (2)

Sol. Area of circle = Circumference of circle

$\pi r^2 = 2\pi r$

$r^2 = 2r$

$r = 2$

Then $d = 2r = 4$ units.

27. Find the angle traced by hour hand of a correct clock 7 pm O' clock and 2 am O' clock.

(1) 200° (2) 210°

(3) 310° (4) 290°

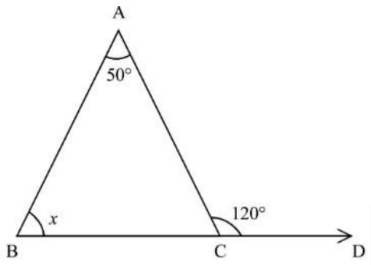
Answer (2)

Sol. Angle made by hour hand in 1 hour = 30°

7 pm to 2 am = 7 hours.

Angle traced = 30° × 7 = 210°

28. From the figure, what is the value of *x*?

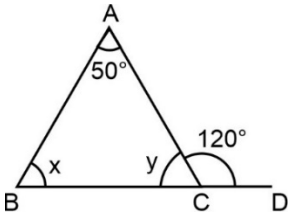


(1) 50° (2) 120°

(3) 60° (4) 70°

Answer (4)

Sol.



$\angle y + 120° = 180°$ (angle on straight line)

$\angle y = 60°$

$\angle A + \angle y + \angle x = 180°$ (sum of internal angle of triangle)

$50° + 60° + \angle x = 180°$

$110° + \angle x = 180°$

$\angle x = 70°$

29. When seen through a mirror, a clock shows 3:30. What is the correct time?

(1) 2:30 (2) 8:30

(3) 5:30 (4) 4:30

Answer (2)

Sol. 11:60 – 3:30 = 8:30

So correct time is 8:30.

30. Which of the following players didn't receive Medal in Tokyo Olympics 2020?

(1) PV Sindhu (2) Neeraj Chopra

(3) Abhinav Bindra (4) Ravi Kumar Dahiya

Answer (3)

Sol. (1) P.V. Sindhu received Bronze medal in Badminton

(2) Neeraj Chopra received Gold medal in men's Javelin throw

(3) Abhinav Bindra did not receive any medal in Tokyo Olympic 2020 games.

(4) Ravi Kumar Dahiya received silver medal in wrestling.

31. The minimum number of colours to required paint all sides of a cube that no two adjacent faces may have the same colour is

(1) 5 (2) 4

(3) 3 (4) 6

Answer (3)

Sol. Opposite sides have same colours. So we need three different colours.

32. X got 98 marks in his exam which is 56% of the total marks. What is the maximum marks of the exam?

(1) 150 (2) 175

(3) 200 (4) 225

Answer (2)

Sol. $56\% \rightarrow 98$

$1\% \rightarrow \frac{98}{56}$

$100\% \rightarrow \frac{98}{56} \times 100 = 175$

33. Which of the following is a metal?

(1) Carbon (2) Mercury

(3) Sulphur (4) Iodine

Answer (2)

Sol. Except mercury, all options belong to non-metal. Thus, mercury is metal.

34. Major Constituent of natural gas is

(1) Propane (2) Butane

(3) Methane (4) Carbon

Answer (3)

Sol. Natural gas consists of methane (85%), ethane (10%) and little amount of propane and butane. Thus, the major constituent of natural gas would be methane.

35. Match List I with List II

List I Books		List II Authors	
A.	India wins freedom	I.	R K Narayan
B.	The guide	II.	Mahatma Gandhi
C.	India from midnight to Millenium	III.	Abdul Kalam Azad
D.	Conquest of self	IV.	Shashi Tharoor

Choose the most appropriate answer from the options given below:

(1) A-I, B-III, C-IV, D-II (2) A-III, B-I, C-IV, D-II

(3) A-III, B-I, C-II, D-IV (4) A-I, B-IV, C-II, D-III

Answer (2)

Sol.

List-I Books		List-II Authors	
A.	India wins freedom	III.	Abdul Kalam Azad
B.	The guide	I.	R K Narayan
C.	India from midnight to Millenium	IV.	Shashi Tharoor
D.	Conquest of self	II.	Mahatma Gandhi

36. Arrange the following in meaningful sequence:

A. Key B. Door

C. Lock D. Room

Choose the most appropriate answer from the options given below:

(1) A, C, B, D (2) D, C, A, B

(3) B, A, D, C (4) C, B, D, A

Answer (1)

Sol. At first, we have to key, then we unlock the lock, then open the door and enter into room.

So, sequence is $\rightarrow$ A, C, B, D

37. Match List I with List II

List I Physical Quantity		List II Units	
A.	Electric charge	I.	Newton
B.	Force	II.	Coulamb
C.	Power	III.	Joule
D.	Energy	IV.	Watt

Choose the most appropriate answer from the options given below:

(1) A-I, B-II, C-IV, D-III (2) A-II, B-I, C-IV, D-III

(3) A-II, B-IV, C-I, D-III (4) A-III, B-II, C-IV, D-I

Answer (2)

Sol.

List I Physical Quantity		List II Units	
A.	Electric charge	II.	Coulamb
B.	Force	I.	Newton
C.	Power	IV.	Watt
D.	Energy	III.	Joule

38. In a row of 40 children, A is 13th from the left end and B is ninth from the right end. How many children are there between A and C if C is fourth to the left of B?

(1) 13 (2) 14

(3) 15 (4) 16

Answer (2)

Sol. C's rank from left = 9 + 4 = 13th

So, C's rank from right = (40 – 13) + 1 = 28th

Number of students between A and C = (28 – 13) – 1 = 14

39. Bhoodan-Gram Dan Movement was initiated by

(1) Mahatma Gandhi

(2) Vinoba Bhave

(3) Shri Ram Chandra Reddy

(4) Sardar Patel

Answer (2)

Sol. Bhoodan-Gram Dan movement was initiated by Vinoba Bhave in 1951 aimed to persuade wealthy landowners to denote a portion of their land to landless peasants.

40. Match List I with List II

List I River		List II City	
A.	Mahanadi	I.	Ludhiana
B.	Godavari	II.	Cuttack
C.	Sutlej	III.	Lucknow
D.	Gomti	IV.	Nasik

Choose the most appropriate answer from the options given below:

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

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

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

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

Answer (2)

Sol.

List I River		List II City	
A.	Mahanadi	II.	Cuttack
B.	Godavari	IV.	Nasik
C.	Sutlej	I.	Ludhiana
D.	Gomti	III.	Lucknow

41. Choose the one which is different from the rest three

(1) 431 (2) 162

(3) 831 (4) 232

Answer (4)

Sol. Sum of digits of 232 is prime, while all other's sum is not prime.

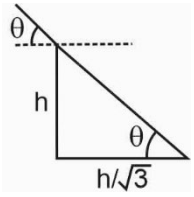
42. Find the angle of elevation of the Sun, when the length of the shadow of a tree is $\frac{1}{\sqrt{3}}$ times the height of the tree.

(1) 30° (2) 45°

(3) 60° (4) 90°

Answer (3)

Sol.



$\tan\theta = \frac{h}{h/\sqrt{3}}$

$\tan\theta = \sqrt{3}$

$\theta = 60°$

43. If the word 'LEADER' is coded as 20-13-9-12-13-26. How would you write "LIGHT"?

(1) 20-16-15-17-22 (2) 20-17-15-16-28

(3) 20-15-16-18-23 (4) 20-16-17-15-27

Answer (2)

Sol.

	12	5	1	4	5	18
	L	E	A	D	E	R
	+8	+8	+8	+8	+8	+8
	↓	↓	↓	↓	↓	↓
	20	13	9	12	13	26
So	L	I	G	H	T	
	12	9	7	8	20	
	+8	+8	+8	+8	+8	
	20	17	15	16	28	

44. The ratio of ages of 2 boys is 3:7. After 2 years, the ratio of their ages will become 5:9. The ratio of their ages after 10 years will be

(1) 15:16 (2) 5:17

(3) 17:18 (4) 13:17

Answer (4)

Sol. Let their present age be 3x and 7x.

After two years, $\frac{3x+2}{7x+2}=\frac{5}{9}$

x = 1

Present age = 3 years and 7 years.

After 10 years = 3+10 = 13 and 7 + 10 = 17

= 13 : 17

45. If today is Saturday then what will be the day on 363rd day?

(1) Sunday (2) Monday

(3) Thursday (4) Friday

Answer (4)

Sol. $\frac{363}{7}=6$ remainder

Saturday + 6 = Friday

46. Major is related to Lieutenant in the same way as "Squadron Leader is Related to ____ ?

(1) Pilot officer

(2) Flying attendant

(3) Group captain

(4) Flying officer

Answer (4)

Sol. Major and Squadron Leader are equivalent ranks in Army and Air Force respectively. In the same way Lieutenant and Flying officer are equivalent ranks in Army and Air Force respectively.

47. Here are some words translated from an artificial language

Holo polo means base ball

Moto prot means my India

Prot shot means India won

Which world could be mean "All India Radio"

(1) Holo polo prot (2) Kud prot nid

(3) Prot polo nid (4) Polo nid prot

Answer (2)

Sol. (1) Holo polo → Base ball

(2) Moto prot → My India

(3) Prot shot → India won

India → Prot from (2) and (3)

So in 2nd option prot is in middle. So, this answer because other two words unidentified.

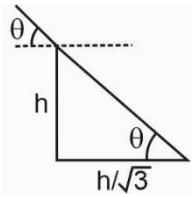
48. Find the angle of elevation of the Sun, when the length of the shadow of a tree is $\frac{1}{\sqrt{3}}$ times the height of the tree.

(1) 30° (2) 45°

(3) 60° (4) 90°

Answer (3)

Sol.



$\tan\theta=\frac{h}{h/\sqrt{3}}$

$\tan\theta=\sqrt{3}$

$\theta = 60°$

49. Who won the 'Noble Prize' for in the field of "physiology or medicine"?

(1) C.V. Raman

(2) Jagdish Chandra Bose

(3) Homi Jehangir Bhabha

(4) Har Gobind Khorana

Answer (4)

Sol. 1968 Nobel Prize in the field of physiology or medicine was received by Har Gobind Khorana along with Marshall W. Nirenberg and Robert W. Holley for research that helped to show how the genetic components of the cell nucleus control the synthesis of proteins.

50. A railway half-ticket costs half the full ticket. However, the reservation charge for all the tickets is constant. One full reserved ticket for a journey is ₹525. If the cost of one full and one half reserved ticket for the same journey is ₹850, then what is the reservation charge per ticket?

(1) ₹120

(2) ₹150

(3) ₹125

(4) ₹115

Answer (3)

Sol. Let x be the fare and y be reservation charge.

$x + y = 525$ … (i)

One full and one-half ticket = $1+\frac{1}{2}=\frac{3}{2}$

Cost of half ticket = $\frac{x}{2}$

$\because x+y+\frac{x}{2}+y=850$

$\frac{3}{2}x+2y=850$

$3x+4y=1700$ … (ii)

Solving (i) & (ii), x = 400 … (iii)

Using (iii) in (i), y = 125

So, reservation charge is ₹125

51. The relationship between the values of a country's imports and its exports is called.

(1) Balance of Trade

(2) Balance of Payment

(3) Balance of currency

(4) Bill of exchange

Answer (1)

Sol. Balance of Trade is the relationship between values of a country's imports and its exports. This balance of trade is constituent of balance of payment. Thus, correct answer is balance of trade.

52. Which of the following is not the satellite launched by India?

(1) Explorer (2) APPLE

(3) Bhaskar (4) INSAT

Answer (1)

Sol. Satellite, APPLE, Bhaskar and INSAT were launched by India or are associated with Indian Space Research Organisation (ISRO) while explorer was the first satellite launched by United States in 1958.

53. Which book is written by Dr. S. Radha Krishnan?

(1) The world's largest democracy

(2) India divided

(3) Indian Philosophy

(4) India Priceless heritage

Answer (3)

Sol.

	Books	**Writers**
(1)	The world's largest democracy	Ramachandra Guha
(2)	India divided	Dr Rajendra Prasad
(3)	Indian Philosophy	Dr Sarvepalli Radhakrishnan
(4)	India Priceless heritage	N.A. Palkhivala

Thus, correct answer is (3)

54. Match List I with List II

List I Diet Deficiency		List II Disease	
A.	Deficiency of Vitamin B	I.	Anaemia
B.	Deficiency of Vitamin A	II.	Beri-Beri
C.	Deficiency of Iron	III.	Goitre
D.	Deficiency of Iodine	IV.	Night blindness

Choose the most appropriate answer from the options given below:

(1) A-IV, B-II, C-III, D-I (2) A-II, B-IV, C-I, D-III

(3) A-I, B-III, C-IV, D-II (4) A-III, B-I, C-II, D-IV

Answer (2)

Sol.

List I Diet Deficiency		List II Disease	
A.	Deficiency of Vitamin B	II.	Beri-Beri
B.	Deficiency of Vitamin A	IV.	Night blindness
C.	Deficiency of Iron	I.	Anaemia
D.	Deficiency of Iodine	III.	Goitre

55. If the 2nd half of the letters of the word INTERMEDIATE are reversed and placed before 1st half of the letters, which letter will be 2nd to the right of 10th letter from the right?

(1) A (2) D

(3) E (4) I

Answer (2)

Sol. Word : INTERMEDIATE

Reverse 2nd half and placed before 1st half

ETAIDEINTERM

10 – 2 = 8th from right which is D.

56. Find the perimeter of a rhombus whose one diagonal is 16 cm long and area is 240 cm^2.

(1) 68 cm (2) 30 cm

(3) 24 cm (4) 36 cm

Answer (1)

Sol. Area = 240 cm^2

One diagonal = 16 cm

$$\text{Second diagonal} = \frac{\text{Area} \times 2}{d_1} = \frac{240 \times 2}{16} = 30 \text{ cm}$$

$$\text{Perimeter} = 2\sqrt{(d_1)^2 + (d_2)^2}$$

$$= 2\sqrt{(16)^2 + (30)^2}$$

= 68 cm

57. A is 3 years younger than C but one year older than D. D is one year older than B but 4 years younger than C. C is 15 years old. What is the age of B in years?

(1) 13 (2) 12

(3) 11 (4) 10

Answer (4)

Sol. A = C – 3

A = D + 1

D = B + 1

D = C – 4

C = 15

So, D = 11, A = 12, B = 10

So, B's age is 10 years old.

58. The average of 12 numbers is 15 and the average of the first two numbers is 14. What is the average of the remaining numbers?

(1) 15 (2) 15.2

(3) 14 (4) 14.2

Answer (2)

Sol. Sum of 12 numbers = 12 × 15 = 180

Sum of first 2 numbers = 2 × 14 = 28

Sum of first two + Sum of remaining = 180

Sum of remaining = 180 – 28 = 152

$$\text{Average} = \frac{152}{10} = 15.2$$

59. Match List I with List II

LIST I Movement		LIST II Purpose	
A.	Quit India Movement	I.	To achieve self Government in India of demand for large political representation
B.	Civil Disobedience Movement	II.	Compelled British's to leave India
C.	Non Cooperation Movement	III.	Refusal to obey certain laws orders or Commands of the Government
D.	Home rule league Movement	IV.	Indians resigning their title boycotting foreign goods and Government institutions refused to pay taxes

Choose the most appropriate answer from the options given below:

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

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

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

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

Answer (4)

Sol.

LIST I Movement		LIST II Purpose	
A.	Quit India Movement	II.	Compelled British's to leave India
B.	Civil Disobedience Movement	III.	Refusal to obey certain laws orders or Commands of the Government
C.	Non Cooperation Movement	IV.	Indians resigning their title boycotting foreign goods and Government institutions refused to pay taxes
D.	Home rule league Movement	I.	To achieve self Government in India of demand for large political representation

60. The only Indian who received noble prize in literature is

(1) Bankim Chandra Chatterjee

(2) Toradutt

(3) R. K. Narayan

(4) Rabindra Nath Tagore

Answer (4)

Sol. Rabindra Nath Tagore won Nobel Prize for Literature in 1913 for his collection Gitanjali Published in London in 1912.

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