

TERRITORIAL ARMY COMMISSION (TAC) EXAMINATION

PRACTICE TEST PAPER - 2

Max Time : 2 Hours

(Please Read The Instructions Carefully)

Max Marks : 100

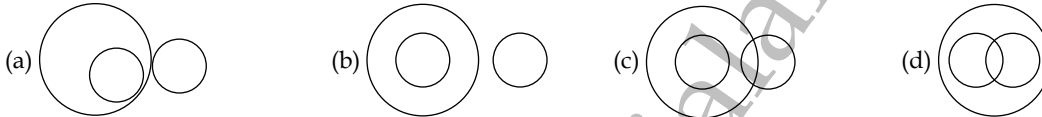
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INSTRUCTIONS

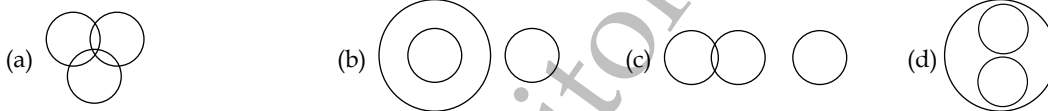
- Paper-1 has four parts:
 - Part I : Reasoning (40 marks)
 - Part II General Awareness (30 marks)
 - Part III: English (30 marks)
- Each section carries objectives type of questions.
- There will be four possible answers to every question. Candidates are required to mark correct answer.
- For each correct answer, 1 mark will be granted and 0.33 mark will be deducted for every wrong answer.
- There will be no penalty for questions left unanswered.

PART-1 : REASONING

Q1. Which of the following diagrams indicates the best relation between Doctors, Human Beings and Married People?



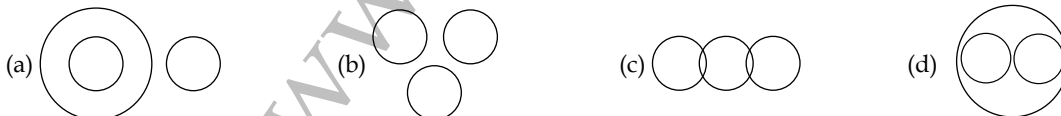
Q2. Which of the following diagrams indicates the best relation between Judge, Thieves and Criminals?



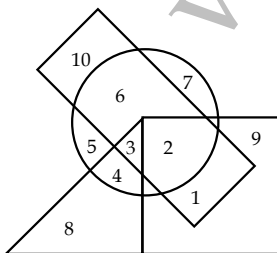
Q3. Which of the following diagrams indicates the best relation between Judge, Thieves and Criminals?



Q4. Which of the following diagrams indicates the best relation between Earth, Sea and Sun?



Q5. In the following figure, the boys who are athletes and disciplined are indicated by which number?



The triangle represents girls, the circle athletes, the rectangle boys and the square disciplined.

- (a) 1 (b) 2 (c) 6 (d) 10

- Q6. In a row of boys, A is thirteenth from the left and D is seventeenth from the right. If in this row A is eleventh from the right then D from the left? what is the position of D from the left?
 (a) 6th (b) 7th (c) 10th (d) 12th
- Q7. In a class of 35 students, Kunal is placed seventh from the bottom whereas Sonali is placed ninth from the top. Pulkit is placed exactly in between the two. What is Kunal's position from Pulkit?
 (a) 9 (b) 10 (c) 11 (d) 13
- Q8. Kailash remembers that his brother Deepak's birth day falls after 20th May but before 28th May, while Geeta remembers that Deepak's birthday falls before 22nd May but after 12th May. On what date Deepak's birthday falls?
 (a) 20th May (b) 21st May (c) 22nd May (d) Cannot be determined
- Q9. Reaching the place of meeting 20 minutes before 8.50 hrs Sumit found himself thirty minutes earlier than the man who came 40 minutes late. What was the scheduled time of the meeting? (c) 8.10.
 (a) 8.00 (b) 8.05 (c) 8.10 (d) 8.30
- Q10. If '+' means 'divided by', '-' means 'added to', 'x' means 'subtracted from' and '÷' means 'multiplied by', then what is the value of $24 \div 12 - 18 + 9$?
 (a) - 25 (b) 0.72 (c) 15.30 (d) 290
- Q11. If 'x' means ÷, '-' means ×, '÷' means + and '+' means -, then $(3 - 15 \div 19) \times 8 + 6 = ?$
 (a) - 1 (b) 2 (c) 4 (d) 8
- Q12. If Q means 'add to', J means 'multiply by', T means 'subtract from' and K means 'divide by', then $30 K 2 Q 3 J 6 T 5 = ?$
 (a) 18 (b) 28 (c) 31 (d) 103

Q13. Find the missing term.

| | | |
|---|---|---|
| 3 | 6 | 8 |
| 5 | 8 | 4 |
| 4 | 7 | ? |

- (a) 6 (b) 7 (c) 8 (d) 9

Q14. Find the missing term.

| | | |
|----|----|----|
| 11 | 6 | 8 |
| 17 | 12 | ? |
| 25 | 34 | 19 |
| 19 | 28 | 11 |

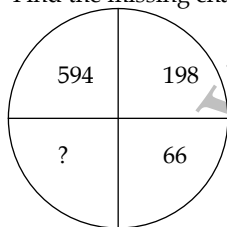
- (a) 9 (b) 13 (c) 15 (d) 16

Q15. Find the missing term.

| | | |
|----|----|-----|
| A2 | C4 | E6 |
| G3 | 15 | ? |
| M5 | O9 | Q14 |

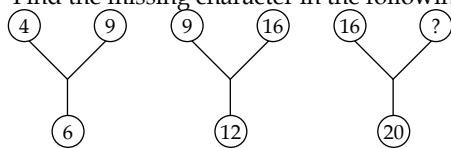
- (a) J15 (b) K8 (c) K15 (d) L10

Q16. Find the missing character in the following figure.

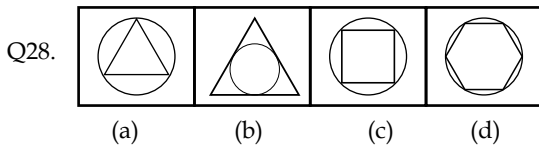


- (a) 11 (b) 12 (c) 22 (d) 33

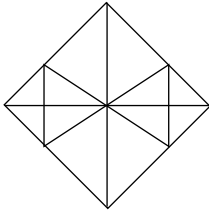
Q17. Find the missing character in the following figure.



- (a) 21 (b) 25 (c) 35 (d) 45

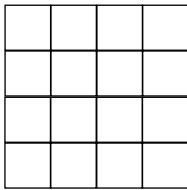


Q29. How many triangles are there puzzles .



- (a) 16 (b) 22 (c) 28 (d) 32

Q30. How many maximum squares are in the following figure?



- (a) 32 (b) 30 (c) 29 (d) 28

Q31. If in a certain code, GLAMOUR is written as IJC NMWP and MISRULE is written as OGUSSNC, then how will TOPICAL be written in that code?

- (a) VMRJECN (b) VMRHACJ (c) VMRJACJ (d) VNRJABJ

Q32. If DELHI can be coded as CCIDD, how would you code BOMBAY?

- (a) AJMTVT (b) AMJXVS (c) MJXVSU (d) WXYZAX

Q33. If 'eraser' is called 'box', 'box' is called 'pencil', 'pencil' is called 'sharpener' and 'sharpener' is called "bag', what will a child write with?

- (a) Eraser (b) Box (c) Pencil (d) Sharpener

Q34. If 'pen' is 'table', 'table' is 'fan', 'fan' is 'chair' and 'chair' is 'roof, on which of the following will a person sit?

- (a) Fan (b) Chair (c) Roof (d) Table

Q35. Looking at a portrait of a man, Harsh said, "His mother is the wife of my father's son. Brothers and sisters I have none." At whose portrait was Harsh looking?

- (a) His son (b) His cousin (c) His uncle (d) His nephew

Q36. Introducing a man to her husband, a woman said, "His brother's father is the only son of my grandfather." How is the woman related to this man?

- (a) Mother (b) Aunt (c) Sister (d) Daughter

Q37. In a March Past, seven persons are standing in a row. Q is standing left to R but right to P. O is standing right to N and left to P. Similarly, S is standing right to R and left to T. Find out who is standing in the middle.

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

Q38. Garima is taller than Sarita but not taller than Reena. Reena and Tanya are of the same height. Garima is shorter than Anu. Amongst all the girls, who is/are the shortest?

- (a) Anu (b) Reena and Tanya (c) Garima (d) Sarita

Q39. A person starts from a point A and travels 3 km eastwards to B and then turns left and travels thrice that distance to reach C. He again turns left and travels five times the distance he covered between A and B and reaches his destination D. The shortest distance between the starting point and the

- (a) 12 km (b) 15 km (c) 16 km (d) 18 km

Q40. Pratap starts from school and walks 7 km towards East. He takes a left and walks 4 km, then takes a right and walks 2 km, again takes a right and walks 3 km. Which direction is he facing now?

- (a) South (b) North (c) East (d) West

PART-II : GENERAL KNOWLEDGE

- Q41. Horse latitudes lie within the atmospheric pressure belts of
(a) Polar high (b) Equatorial low (c) Sub-tropical high (d) Sub-polar low
- Q42. According to the Election Commission of India, in order to be recognized as a 'National Party', a political party must be treated as a recognized political party in how many States?
(a) At least two States (b) At least three States (c) At least four States (d) At least five States
- Q43. The National Commission for Women was
(a) an amendment in the Constitution of India (b) a decision of the Union Cabinet
(c) an Act passed by the Parliament (d) an order of the President of India
- Q44. A writ issued to secure the release of a person detained illegally is found to be
(a) Mandamus (b) Habeas corpus (c) Certiorari (d) Prohibition
- Q45. A Money Bill passed by the Lok Sabha can be held up by the Rajya Sabha for how many weeks?
(a) Two (b) Three (c) Four (d) Five
- Q46. Which allotropy of carbon is in rigid three-dimensional structure?
(a) Graphite (b) Fullerene (c) Diamond (d) Carbon black
- Q47. What is the role of positive catalyst in a chemical reaction?
(a) It increases the rate of reaction (b) It decreases the rate of reaction
(c) It increases the yield of the products (d) It provides better purity of the products
- Q48. Iodised salt is a
(a) mixture of potassium iodide and common salt
(b) mixture of molecular iodide and common salt
(c) compound formed by combination of potassium iodide and common salt
(d) compound formed by molecular iodine and common salt
- Q49. The living content of cell is called protoplasm. It is composed of:
(a) Cytoplasm only (b) Cytoplasm and nucleoplasm
(c) Nucleoplasm only (d) Cytoplasm, nucleoplasm and other organelles
- Q50. Penicillin inhibits synthesis of bacterial
(a) cell wall (b) protein (c) RNA (d) DNA
- Q51. The Fundamental Rights guaranteed in the Constitution India can be suspended only by
(a) a proclamation of National Emergency (b) an Act passed by the Parliament
(c) an amendment to the Constitution of India (d) the judicial decisions of the Supreme Court
- Q52. Which one of the following Schedules of the Constitution of India has fixed the number of Members of the Rajya Sabha to be elected from each State?
(a) Fifth Schedule (b) Third Schedule (c) Sixth Schedule (d) Fourth Schedule
- Q53. Which one of the following constitutional authorities inquires and decides in case of doubts and disputes arising out of election of the President and Vice President of India"
(a) The Supreme Court of India (b) The Election Commission of India
(c) The Parliamentary Committee (d) The High Court of Delhi
- Q54. Devaluation of currency will be more beneficial if prices of
(a) domestic goods remain constant (b) exports become cheaper to importers
(c) imports remain constant (d) exports rise proportionately
- Q55. Which of the following with regard to the term 'bank run' is correct?
(a) The net balance of money a bank has in its chest at the end of the day's business
(b) The ratio of bank's total deposits and total liabilities
(c) A panic situation when the deposit holders start withdrawing cash from the banks
(d) The period in which a bank creates highest credit in the market
- Q56. The headquarters of 'Economic and Social Commission for Asia and the Pacific' is located at
(a) Singapore (b) Manila (c) Bangkok (d) Hong Kong
- Q57. The College of Military Engineering affiliated to Jawaharlal Nehru University is situated at
(a) New Delhi (b) Dehradun (c) Nainital (d) Pune
- Q58. Which one of the following is the motto of NCC?
(a) Unity and Discipline (b) Unity and Integrity (c) unity and command (d) unity and service
- Q59. 'Prahaar' is
(a) a battle tank (b) a surface-to-surface missile
(c) an aircraft carrier (d) a submarine

- Q60. Triples' is a new format of
 (a) Boxing (b) Judo (c) Chess (d) Badminton
- Q61. Which country is to play host to the Asian Football Confederation (AFC) Women's Asian Cup 2022?
 (a) UK (b) India (c) Sri Lanka (d) Bangladesh
- Q62. Where are the headquarters of International Paralympic Committee?
 (a) Germany (b) Bulgaria (c) Spain (d) England
- Q63. Which country is to play host to the Asian Football Confederation (AFC) Women's Asian Cup 2022?
 (a) UK (b) India (c) Sri Lanka (d) Bangladesh
- Q64. The 'Panchsheel Agreement' for peaceful coexistence was signed between
 (a) India and Bhutan (b) India and Nepal (c) India and China (d) India and Pakistan
- Q65. Rand/ZAR' is the currency of '
 (a) Burundi (b) Libya (c) Sudan (d) South Africa
- Q66. Who has been appointed as the Chief Election Commissioner in April 2021?
 (a) Sushil Chandra (b) Prasanna Chandra (c) Ajay Kumar Bhalla (d) Injeti Srinivas
- Q67. In which state is the India's largest floating solar power plant is proposed to be set up?
 (a) Maharashtra (b) Madhya Pradesh (c) Telangana (d) Tamil Nadu
- Q68. Vaishali S Hiwase, has been appointed as the first woman officer of which Central Armed Police Force?
 (a) BRO (b) ITBP (c) CAPF (d) CRPF
- Q69. Which institution has proposed that India should provide additional incentives on purchase of EVs, in addition to that provided FAME-II?
 (a) Niti Aayog (b) GST Council
 (c) Finance Commission (d) Society of Automobile Manufacturers
- Q70. Which Indian IT major has recently obtained Google Cloud Partner status?
 (a) HCL (b) Wipro (c) Infosys (d) TCS

PART-III : ENGLISH

In each of the following sentences find out which part of the sentence has an error.

- Q71. The question is (a)/ so complicated that (b)/ it could not be solved (c)/ immediately. (d)/ No error (e)/
- Q72. Unless he does not discipline (a)/ himself and tries hard (b)/ he will not learn (c)/ anything.(d)/ No error (e)/
- Q73. Despite of having (a)/ an exceptionally bright career record (b)/ she could not get (c)/ whatever she deserved. (d)/ No error (e)/
- Q74. Now the time was to (a)/ escape and he opened the window (b)/ and jumped out. (c)/ No error (d)/
- Q75. The officer is angry on the clerk (a)/ for not completing the job (b)/ on time. (c)/ No error (d)/
- Q76. Everyone who was injured (a)/ in the accident (b)/ were taken to the hospital (c)/ No error (d)/

Choose the best expression amongst multiple choices for a given idiom/proverb.

- Q77. Ram is very calculative and always has an axe to grind.
 (a) has no result (b) works for both sides
 (c) has a private agenda (d) fails to arouse interest
- Q78. The police looked all over for him but drew a blank.
 (a) did not find him (b) put him in prison (c) arrested him (d) took him to court
- Q79. On the issue of marriage, Sarita put her foot down.
 (a) stood up (b) was firm (c) got down (d) walked fast
- Q80. His investments helped him make a killing in the stock market.
 (a) lose money quickly (b) plan a murder quickly
 (c) murder someone quickly (d) make money quickly
- Q81. He is on the wrong side of seventy.
 (a) more than seventy years old (b) less than seventy years old
 (c) seventy years old (d) eighty years old

- Q82. She didn't realize that the clever salesman was taking her for a ride
 (a) forcing her to go with him (b) trying to trick her
 (c) taking her in a car (d) pulling her along

In each of the following question out of the four alternatives, choose the one which can be substitute for the given word/sentence.

- Q83. Extreme old age when a man behaves like a fool
 (a) Imbecility (b) Senility (c) Dotage (d) Superannuation
- Q84. That which cannot be corrected
 (a) Unintelligible (b) Indelible (c) Illegible (d) Incurable
- Q85. The study of ancient societies
 (a) Anthropology (b) Archaeology (c) History (d) Ethnology

In these questions, the first and last sentences of the passage are numbered 1 and 6. The rest of passage is split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct.

- Q86. S1: A force of exists between everybody in the universe.
 P : Normally it is very small but when the one of the bodies is a planet, like earth, the force is considerable.
 Q : It has been investigated by many scientists including Galileo and Newton.
 R : Everything on or near the surface of the earth is attracted by the mass of earth.
 S : This gravitational force depends on the mass of the bodies involved.
 S6: The greater the mass, the greater is the earth's force of attraction on it. We can call this force of attraction gravity.
 The Proper sequence should be:
 (a) PRQS (b) PRSQ (c) QSRP (d) QSPR
- Q87. S1: Calcutta unlike other cities keeps its trams. P : As a result there horrendous congestion. Q : It was going to be the first in South Asia. R : They run down the centre of the road. S : To ease in the city decided to build an underground railway line. S6: The foundation stone was laid in 1972. The Proper sequence should be:
 (a) PRSQ (b) PSQR (c) SQRP (d) RPSQ
- Q88. S1: For some time in his youth Abraham Lincoln was manager for a shop.
 P : Then a chance Customer would come.
 Q : Young Lincoln way of keeping shop was entirely unlike anyone else's.
 R : Lincoln would jump up and attend to his needs and then revert to his reading.
 S : He used to lie full length on the counter of the shop eagerly reading a book.
 S6: Never before had Lincoln had so much time for reading as had then.
 The Proper sequence should be:
 (a) SRQP (b) QSPR (c) SQRP (d) QPSR
- Q89. S1: All the land was covered by the ocean.
 P : The leading god fought the monster, killed it and chopped its body in to two halves.
 Q : A terrible monster prevented the gods from separating the land from the water.
 R : The god made the sky out of the upper part of the body and ornamented it with stars.
 S : The god created the earth from the lower part, grew plants on it and populated it with animals.
 S6: The god moulded the first people out of clay according to his own image and mind.
 The Proper sequence should be:
 (a) PQRS (b) PQSR (c) QPSR (d) QPRS

For Underlined part of the sentence chooses part of the sentence from given choices, to correct or improve it.

- Q90. John had told me that he hasn't done it yet.
 (a) told (b) tells (c) was telling (d) No improvement
- Q91. If he had time he will call you.
 (a) would have (b) would have had (c) has (d) No improvement
- Q92. Will you lend me few rupees in this hour of need?
 (a) lend me any rupees (b) borrow me a few rupees (c) lend me a few rupees (d) No improvement
- Q93. During his long discourse, he did not touch that point.
 (a) touch upon (b) touch on (c) touch of (d) No improvement
- Q94. He found a wooden broken chair in the room.
 (a) wooden and broken chair (b) broken wooden chair
 (d) broken and wooden chair (d) No improvement

In each of the following questions, a sentence has been given in Active (or Passive) voice. Out of the four alternatives suggested, select the one which best express the same sentence in Passive (or Active) voice.

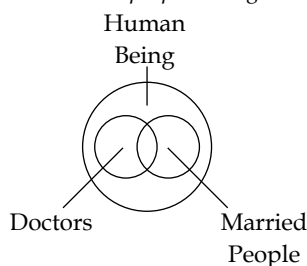
- Q95. Women like men to flatter them.
(a) Men are liked by women to flatter them. (b) Women like to be flattered by men.
(c) Women like that men should flatter them. (d) Women are liked to be flattered by men.
- Q96. It is your duty to make tea at eleven O'clock.
(a) You are asked to make tea at eleven O' clock (b) Your are required to make tea at eleven O clock.
(c) You are supposed to make tea at eleven O' clock. (d) Tea is to be made by you at eleven O' clock.
- Q97. Look at the poll results. do they inspire hope ?
(a) Let the poll results be looked. is hope inspired by them ?
(b) Let the poll results be looked at. has hope been inspired by them ?
(c) let the poll results be looked at. is hope being inspired by them ?
(d) Let the poll results be looked at. is hope inspired by them ?

Rearrange the following part of the sentence in form of a meaningful sentence.

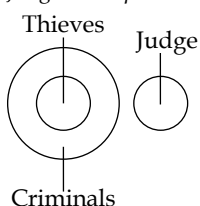
- Q98. All religions are to advance the cause of peace (P)/ in a holy partnership (Q)/ justice and freedom (R)/ bound together (S)
(a) P R Q S (b) P Q R S (c) S Q P R (d) S P Q R
- Q99. Seventy-two people reports PTI (P)/ were affected by food poisoning (Q)/ including several women and children (R)/ of the central part of the city (S)/
(a) S P Q R (b) P Q R S (c) R S P Q (d) R S Q P
- Q100. The Prime Minister declared that those states (P)/ will get all help and aid (Q)/ where family planning (R)/ is effected very efficiently (S)/
(a) P R S Q (b) P Q R S (c) R S P Q (d) Q P S R

PART-I : REASONING
ANSWER PRACTICE TEST PAPER - 2

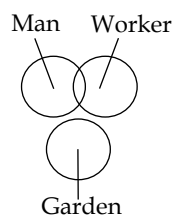
1. (d)
Explanation: Some doctors can be married. Both doctors and married people belong to the group of human beings.



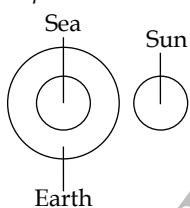
2. (b)
Explanation: Thieves belong to the category of criminals. Judge is a separate entity.



3. (d)
Explanation: Some man can be workers while some workers can be man, Garden is a separate entity.



4. (a)
Explanation:



5. (b) 2
Explanation: The required region is the one which is common to the rectangle, circle and square but lies outside the triangle i.e. 2.

6. (b) 7th
Explanation: Clearly, A is 13th from the left and 11th from the right end of the row.
So, number of boys in the row = $(12 + 1 + 10) = 23$.
Now, D is 17th from the right. Number of boys to the left of D = $(23 - 17) = 6$.
Hence, D is 7th from the left end of the row.

7. (b) 10
Explanation: Number of students between Kunal and Sonali = $35 - (7 + 9) = 19$.

Clearly, there are 9 students between Kunal and Pulkit, as well as Pulkit and Sonali.

So, Kunal is 10th from Pulkit.

8. (b) 21st May
Explanation: According to Kailash, Deepak's birthday falls on one of the days among 21st, 22nd, 23rd, 24th, 25th, 26th and 27th May.

According to Geeta, Deepak's birthday falls on one of the days among 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th and 21st May.

The day common to both the groups is 21st May.

∴ Deepak's birthday falls on 21st May.

9. (d) 8.30
Explanation: Sumit reached the place 20 minutes before 8.50 hrs, i.e., at 8.30 hrs.

Clearly, the man who was 40 minutes late would reach the place at 9.00 hrs. So, the scheduled time of the meeting was 40 minutes before 9.00 hrs, i.e., 8.20 hrs.

10. (d) 290
Explanation: Using the correct symbols, we have: Given expression = $24 \times 12 + 18 \div 9 = 288 + 2 = 290$.

11. (b) 2
Explanation: Using the correct symbols, we have:
Given expression = $(3 \times 15 + 19) \div 8 - 6 = 64 \div 8 - 6 = 8 - 6 = 2$.

12. (b) 28
Explanation: Using the correct symbols, we have:
Given expression = $30 \div 2 + 3 \times 6 - 5 = 15 + 18 - 5 = 28$.

13. (a) 6
Explanation: Clearly, sum of numbers in each row is 17. So, missing number $17 - (4 + 7) = 6$.

14. (d) 16
Explanation: In the first column, $17 - 11 = 25 - 19$.
In the second column, $12 - 6 = 34 - 28$.
Let the missing number in the third column be x.
Then, $x - 8 = 19 - 11 = 8$ or $x = 16$.

15. (b) K8
Explanation: The letters in each row follow the sequence + 2.
So, the missing letter will be 2 steps ahead of I, which is K.
In each row, the sum of first two numbers is equal to the third number. So, missing number $3 + 5 = 8$. Hence, the missing character is K8.

16. (c) 22
 Explanation: Moving clockwise, we have: $594 \div 3 = 198$; $198 \div 3 = 66$. So, missing number $66 \div 3 = 22$.

17. (b) 25
 Explanation: We have: $\sqrt{4} \times \sqrt{9} = 6$, $\sqrt{9} \times \sqrt{9} = 12$ Let the missing number be x .
 Then, $\sqrt{16} \times \sqrt{x} = 20 \Rightarrow \sqrt{x} = 5 \Rightarrow x = 25$.

18. (a) 16
 Explanation: We have: $\frac{12 \times 14}{2} = 84$, $\frac{9 \times 18}{2} = 81$.
 Let the missing number be x .
 Then, $\frac{11 \times x}{2} = 88 \Leftrightarrow x = 16$.

19. (a) if only conclusion I follows
 Explanation: 1. (a): Since both the premises are universal and affirmative, the conclusion must be universal affirmative. However, conclusion II, being an A-type proposition, distributes the term 'goats'. Since the term 'goats' is distributed in II without being distributed in any of the premises, so conclusion II cannot follow. Thus, only I follows.

20. (c) if neither conclusion I nor II follows
 Explanation: Since the middle term 'cats' is not distributed even once in the premises, no definite conclusion follows.

21. (c) if neither conclusion I nor II follows
 Explanation: The first premise is A type and distributes the subject. So, the middle term 'waters' which forms is not The second premise is I type and does not distribute either subject or predicate. So, the middle term 'waters' forming its subject is not distributed. Since the middle term is not distributed even once in the premises, no definite conclusion follows.

22. (c)
 Explanation: The number of sides of the figure reduces by one in each step.

23. (d)
 Explanation: A new small line segment is added to one of the lines in the figure and this addition takes place sequentially in an ACW direction.

24. (d) if both conclusions I and II follow.
 Explanation: As discussed above, it follows that 'All huts are temples'. I is the converse of this conclusion and so it holds. II is the converse of the second premise and so it also holds.

25. (d) if both conclusions I and II follow.
 Explanation: 'Every' is equivalent to 'All'. Thus, since both the premises are universal and affirmative, the conclusion must be universal affirmative and should not contain the middle term. So, I follows. II is the converse of the second premise and thus it also holds.

26. (c) if neither conclusion I nor II follows
 Explanation: Since the middle term 'smokers' is not distributed even once in the premises, no definite conclusion follows.

27. (a)
 Explanation: All other figures can be rotated into each other.

28. (b)
 Explanation: In each of the other figures, an element is enclosed inside a circle.

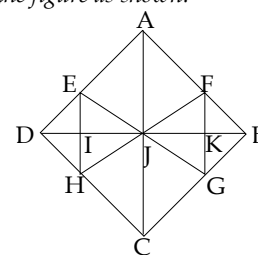
29. (c) 28
 Explanation: We shall label the figure as shown.

The simplest triangles are AFJ, FJK, FKB, BKG, JRG, JGC, HJC, HIJ, DIH, DEI, EIJ and AEJ i.e. 12 in number.

The triangles composed of two components each are JFB, FBG, BJC, JFG, DEJ, EJH, DJH and DEH i.e., 8 in number.

The triangles composed of three components each are AJB, JBC, DJC and ADJ i.e., 4 in number.

The triangles composed of six components each are DAB, ABC, BCD and ADC i.e., 4 in number. Thus, there are $12 + 8 + 4 + 4 = 28$ triangles in the figure.

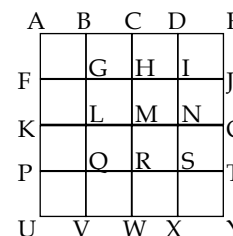


30. (b) 30
 Explanation: The figure may be labelled as shown.

The simplest squares are ABGF, BCHG, CDIH, DEJI, FGLK, GHML, HINM, IJON, KLQP, LMRQ, MNSR, NOTS, PQVU, QRWV, RSXW and STYX i.e., 16 in number.

The squares composed of four components each figure. W X Y are ACMK, BDNL, CEOM, FHRP, GISQ, HJTR, KMWU, LNXV and MOYW i.e., 9 in number.

The squares composed of nine components each are ADSP, BETQ, FIXU and GJYV i.e., 4 in number. There is one square AEYU composed of sixteen components. .. There are $16 + 9 + 4 + 1 = 30$ squares in the given figure.



31. (c) VMRJACJ
 Explanation: The first, third and sixth letters of the word are each moved two steps forward; the second, fifth and seventh letters are each moved two steps backward, while the fourth letter is moved one step forward to obtain the corresponding letters of the code.

32. (b) AMJXVS

Explanation: The first, second, third, fourth,..... letters of the word are moved one, two, three, four,..... steps backward respectively to obtain the corresponding letters of the code.

33. (d) Sharpener

Explanation: A child will write with a 'pencil' and 'pencil' is called 'sharpener. So, a child will write with a 'sharpener'.

34. (c) Roof

Explanation: A person will sit on a 'chair' but a 'chair' is called 'roof. So, a person will sit on the roof.

35. (a) His son

Explanation: Since Harsh has no brother or sister, so he is his father's only son. So, wife of Harsh's father's son-Harsh's wife. Thus, Harsh's wife is the man's mother or the man is Harsh's son.

36. (c) Sister

Explanation: Only son of woman's grandfather-Woman's father; Man's brother's father-Man's father. So, man's father is woman's father i.e. woman is the man's sister.

37. (b) Q

Explanation: Q is left to R and to the right of P i.e. P, Q, R.

O is to the right of N and left of P i.e. N, O, P. S is to the right of R and left of T i.e. R, S, T.

So, the order is: N, O, P, Q, R, S, T. Clearly, Q is in the middle..

38. (d) Sarita

Explanation: Let the first letter of the name of each girl represent her height. Then,

Garima is taller than Sarita $\Rightarrow G > S$.

Garima is not taller than Reena $\Rightarrow R \geq G$.

Reena and Tanya are of the same height $\Rightarrow R = T$.

Garima is shorter than Anu $\Rightarrow A > G$.

All the above indicate that Garima is either shorter than or equal in height to each of the girls except Sarita, while Sarita is shorter than Garima. Thus, Sarita is the shortest.

39. (b) 15 km

Explanation: The movements of the person are as shown in Fig.

Clearly, $AB = 3 \text{ km}$,

$BC = 3AB = (3 \times 3) \text{ km} = 9 \text{ km}$,

$CD = 5AB = (5 \times 3) \text{ km} = 15 \text{ km}$.

Draw $AE \perp CD$.

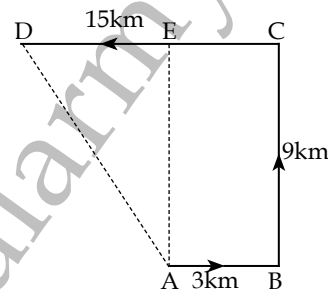
Then, $CE = AB = 3 \text{ km}$ and $AE = BC = 9 \text{ km}$.

$DE = (CD - CE) = (15 - 3) \text{ km} = 12 \text{ km}$.

In $\triangle AED$, $AD^2 = AE^2 + DE^2$

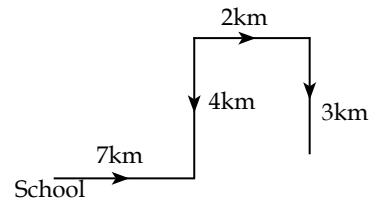
$\Rightarrow AD = (\sqrt{9 + (12)^2}) \text{ km} = \sqrt{225} \text{ km} = 15 \text{ km}$.

\therefore Required distance $AD = 15$.



40. (a) South

Explanation: Pratap is facing south direction now.



PART-III : GENERAL KNOWLEDGE
ANSWER PRACTICE TEST PAPER - 2

- | | |
|--|--------------------------------------|
| 41. (c) Sub-tropical high | 56. (c) Bangkok |
| 42. (c) At least four States | 57. (d) Pune |
| 43. (c) an Act passed by the Parliament | 58. (a) Unity and Discipline |
| 44. (b) Habeas corpus | 59. (b) a surface-to-surface missile |
| 45. (a) Two | 60. (d) Badminton |
| 46. (c) Diamond | 61. (b) India |
| 47. (c) It increases the yield of the products | 62. (a) Germany |
| 48. (c) compound formed by combination of potassium iodide and common salt | 63. (b) India |
| 49. (d) Cytoplasm, nucleoplasm and other organelles | 64. (c) India and China |
| 50. (b) protein | 65. (d) South Africa |
| 51. (a) a proclamation of National Emergency | 66. (a) Sushil Chandra |
| 52. (d) Fourth Schedule | 67. (c) Telangana |
| 53. (a) The Supreme Court of India | 68. (a) BRO |
| 54. (a) domestic goods remain constant | 69. (a) Niti Aayog |
| 55. (c) A panic situation when the deposit holders start withdrawing cash from the banks | 70. (c) Infosys |

PART-III : ENGLISH
ANSWER PRACTICE TEST PAPER - 2

- | | |
|--|---|
| 71. (c) it could not be solved <i>The question is so complicated that it cannot be solved immediately.</i> <i>Explanation: The tense of the first part (is - present tense) does not match the second part (could not - past tense). The sentence "The question was so complicated that it could not be solved immediately" is also correct.</i> | 80. (d) make money quickly |
| 72. (d) anything <i>Unless he does not disciplines himself and tries hard he will not learn.</i> <i>Explanation: Use of negative with unless is incorrect.</i> | 81. (a) more than seventy years old |
| 73. (e) No error <i>Despite of having an exceptionally bright career record she could not get whatever she deserved.</i> <i>Explanation: Use of of with despite is incorrect.</i> | 82. (b) trying to trick her |
| 74. (a) Now the time was to <i>Now was the time to escape and he opened the window and jumped out.</i> | 83. (c) Dotage |
| 75. (a) The officer is angry on the clerk <i>The officer is angry with the clerk for completing the job on time.</i> | 84. (d) Incurigible |
| 76. (c) were taken to the hospital <i>Everyone who was injured in the accident was taken to the hospital.</i> | 85. (b) Archaeology |
| 77. (c) has a private agenda | 86. (d) QSPR |
| 78. (a) did not find him | 87. (d) RPSQ |
| 79. (b) was firm | 88. (b) QSPR |
| | 89. (d) QPRS |
| | 90. (b) tells |
| | 91. (c) has |
| | 92. (c) lend me a few rupees |
| | 93. (b) touch on |
| | 94. (b) broken wooden chair |
| | 95. (b) Women like to be flattered by men. |
| | 96. (c) You are supposed to make tea at eleven O' clock. |
| | 97. (d) Let the poll results be looked at. is hope inspired by them ? |
| | 98. (c) S Q P R |
| | 99. (d) R S Q P |
| | 100. (a) P R S Q |