

**TERRITORIAL ARMY COMMISSION (TAC) EXAMINATION**

**PRACTICE TEST PAPER - 5**

Max Time : 2 Hours

(Please Read The Instructions Carefully)

Max Marks : 100

Roll No.....

**INSTRUCTIONS**

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

**PART-1 : REASONING**

**Direction** In each of the following question a number of series is given with one term missing. Choose the correct alternative that will continue the same pattern.

- Q1. 4, 7, 12, 19, 28, ?  
(a) 30 (b) 36 (c) 39 (d) 49
- Q2.  $\frac{4}{9}, \frac{9}{20}, ?, \frac{39}{86}$   
(a)  $\frac{17}{40}$  (b)  $\frac{19}{42}$  (c)  $\frac{20}{45}$  (d)  $\frac{29}{53}$

**Direction** In each of the following questions, various terms of an alphabet series are given with one missing term as shown by (?) choose the missing term out of the given alternatives.

- Q3. B, D, F, I, L, P, ?  
(a) R (b) S (c) T (d) U
- Q4. BZA, DYC, FXE, ?, JVI ?  
(a) HUG (b) HWG (c) UHG (d) WHG
- Q5. m \_ nm \_ n \_ an \_ a \_ ma \_  
(a) aamnan (b) ammanm (c) aammnn (d) amammn
- Q6. Q1F, S2E, U6D, W21C, ?  
(a) Y44B (b) Y66B (c) Y88B (d) Z88B

**Direction** Choose the correct alternative which shows the same relationship.

- Q7. Mountain Valley :: Genius : ?  
(a) Brain (b) Idiot (c) Think (d) Intelligence
- Q8. House : Garbage :: Ore : ?  
(a) Rubbish (b) Gangue (c) Sand (d) Dregs
- Q9. Ottawa: Canada :: Canberra : ?  
(a) Argentina (b) Switzerland (c) Sri Lanka (d) Australia
- Q10. If A stands for +, B stands for -, C stands for ×, then what is the value of (10 C 4) A (4 C 4) B 6 ?  
(a) 60 (b) 56 (c) 50 (d) 46

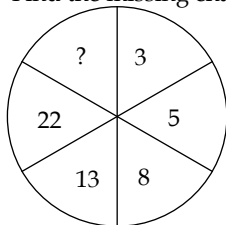
**Direction** Choose the correct alternative which shows the same group relationship.

- Q11. Rice: Wheat: Maize : ?  
(a) Jowar-Bajra (b) Tobacco (c) Jute (d) Cotton
- Q12. Pituitary : Thyroid: Pancreas : ?  
(a) Adrenal (b) Heart (c) Liver (d) Kidney

- Q13. Edge : Corner : Tip : ?  
 (a) Snow (b) Hill (c) Brink (d) Cap
- Q14. Necklace : Ring : Bangle : ?  
 (a) Belt (b) Ornaments (c) Bracelet (d) Jewellery

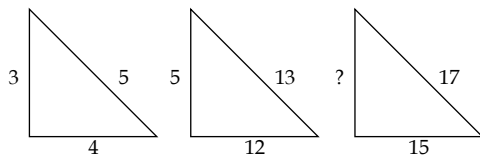
**Direction Choose the odd one out.**

- Q15. Find the odd one out.  
 (a) Eye (b) Ear (c) Nose (d) Brain
- Q16. Find the odd one out.  
 (a) Almirah (b) Rack (c) Safe (d) Cupboard
- Q17. Find the missing character in the following figure.



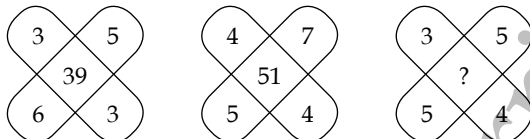
- (a) 1 (b) 26 (c) 39 (d) 45

- Q18. Find the missing character in the following figure.



- (a) 2 (b) 6 (c) 8 (d) 64

- Q19. Find the missing character in the following figure.



- (a) 35 (b) 37 (c) 45 (d) 47

**Directions: In each of the following questions, certain pairs of words are given, out of which the words in all pairs except one, bear a certain common relationship. Choose the pair in which the words are differently related**

- Q20. (a) Tree : Stem (b) Face : Eye (c) Chair : Sofa (d) Plant : Flower
- Q21. (a) Class : Students (b) Sentence : Words (c) Tree : Forest (d) Hour : Minutes
- Q22. If in a certain language, MIRACLE is coded as NKUEHRL, then how is GAMBLE coded in that language?  
 (a) JDOCMF (b) CLEMNK (c) HCPFQK (d) AELGMN
- Q23. If BE QUICK is coded as ZC OSGAI, then the code of the last letter of the third word in the sentence I LOVE MY COUNTRY is  
 (a) A (b) T (c) U (d) W
- Q24. If wall' is called window', 'window' is called 'door', 'door' is called 'floor', 'floor' is called 'roof and roof is called ventilator', what will a person stand on?  
 (a) Window (b) Wall (c) Floor (d) Roof
- Q25. If air is called 'green', 'green' is called 'blue', 'blue' s called 'sky', 'sky' is called yellow', yellow' is called is water and water' is called 'pink', then what is the colour of clear sky?  
 (a) Blue (b) Sky (c) Yellow (d) Water
- Q26. Introducing a man, a woman said, "He is the only son of my mother's mother." How is the woman related to the man?  
 (a) Mother (b) Aunt (c) Sister (d) Niece
- Q27. Pointing to a lady on the platform, Manju said, "She is the sister of the father of my mother's son." Who is the lady to Manju?  
 (a) Mother (b) Sister (c) Aunt (d) Niece

- Q28. If 'clock' is called 'television', 'television' is called radio', radio' is called 'oven', 'oven' is called 'grinder and 'grinder' is called 'iron', in what will a lady bake?  
 (a) Radio (b) Oven (c) Grinder (d) Iron
- Q29. If 'sky' is 'star', 'star' is 'cloud', 'cloud' is 'earth', 'earth' is 'tree' and 'tree' is 'book', then where do the birds fly?  
 (a) Cloud (b) Sky (c) Star (d) Data inadequate
- Q30. Pointing to a man in a photograph, Asha said, "His mother's only daughter is my mother." How is Asha related to that man?  
 (a) Nephew (b) Sister (c) Wife (d) Niece
- Q31. When Anuj saw Manish, he recalled, "He is the son of the father of my daughter's mother." Who is Manish to Anuj?  
 (a) Brother-in-law (b) Brother (c) Cousin (d) Uncle
- Q32. Five children are sitting in a row. S is sitting next to P but not T. K is sitting next to R who is sitting on the extreme left and T is not sitting next to K. Who are sitting adjacent to S?  
 (a) K and P (b) R and P (c) Only P (d) P and T
- Q33. D is taller than C and E. A is not as tall as E. C is taller than A. D is not as tall as B. Who among them is next to the tallest one?  
 (a) A (b) D (c) B or D (d) Data inadequate
- Q34. I am facing South. I turn right and walk 20 m. Then I turn right again and walk 10 m. Then I turn left and walk 10 m and then turning right walk 20 m. Then I turn right again and walk 60 m. In which direction am I from the starting point?  
 (a) North (b) North-west (c) East (d) North-east
- Q35. Vijay travelled 12 km Southward, then turned right and travelled 10 km, then turned right and travelled 12 km. How far was Vijay from the starting point?  
 (a) 22 km (b) 44 km (c) 12 km (d) 10 km
- Q36. A, P, R, X, S and Z are sitting in a row. S and Z are in the centre, and A and P are at the ends. R is sitting on the left of A. Then who is sitting on the right of P?  
 (a) A (b) S (c) X (d) Z
- Q37. Daksh is taller than Manick but not as tall as Rohan. Somesh is shorter than Daksh but taller than Farhan. Who among them is the shortest?  
 (a) Daksh (b) Manick (c) Farhan (d) Cannot be determined
- Q38. A villager went to meet his uncle in another village situated 5 km away in the North-east direction of his own village. From there he came to meet his father-in-law living in a village situated 4 km in the south of his uncle's village. How far away and in which direction is he now?  
 (a) 3 km in the North (b) 3 km in the East (c) 4 km in the East (d) 4 km in the West
- Q39. Pinky walks a distance of 600 m towards East, turns left and moves 500 m, then turns left and walks 600 m and then turns left again and moves 500 m and halts. At what distance (in m) is she from the starting point?  
 (a) 0 (b) 600 (c) 500 (d) 2200
- Q40. In a queue, A is eighteenth from the front while B is sixteenth from the back. If C is twenty-fifth from the front and is exactly in the middle of A and B, then how many persons are there in the queue?  
 (a) 45 (b) 46 (c) 47 (d) 48

### **PART-II : GENERAL KNOWLEDGE**

- Q41. An oscilloscope is an instrument which allows us to see waves produced by  
 (a) Visible light (b) X-rays (c) Sound (d) Gamma rays
- Q42. No matter how far you stand from a mirror, your image appears erect. The mirror is likely to be  
 (a) either plane or convex (b) plane only (c) concave (d) convex only
- Q43. Two layers of a cloth of equal thickness provide warmer covering than a single layer of cloth with double the thickness. Why?  
 (a) Because of the air encapsulated between two layers (b) Since effective thickness of two layers is more  
 (c) Fabric of the cloth plays the role (d) Weaving of the cloth plays the role
- Q44. Magnetic, electrostatic and gravitational forces come under the category of  
 (a) non-contact forces (b) contact forces (c) frictional forces (d) non-frictional
- Q45. The atomic theory of matter was first proposed by  
 (a) John Dalton (b) Rutherford (c) J.J. Thomson (d) Niels Bohr
- Q46. Which one among the following fuels is used in gas welding?  
 (a) LPG (b) Ethylene (c) Methane (d) Acetylene

- Q47. Electricity is produced through dry cell from  
 (a) chemical energy (b) thermal energy (c) mechanical energy (d) nuclear energy
- Q48. Iron sheet kept in moist air covered with rust. Rust is  
 (a) an element (b) a compound  
 (c) a mixture of iron and dust (d) a mixture of iron, oxygen and water
- Q49. Which one of the following hormones is essential for the uptake of glucose by cells in the human body?  
 (a) GH (b) TSH (c) Insulin (d) Cortisol
- Q50. 'Altitude sickness' is caused at high altitude due to  
 (a) high partial pressure of oxygen (b) low partial pressure of oxygen  
 (c) low level of haemoglobin to (d) high partial pressure of carbon dioxide
- Q51. The HIV virus weakens the immunity of a person because it destroys  
 (a) mast cells (b) platelets (c) erythrocytes (d) lymphocytes
- Q52. Which one of the following hormones contains peptide chain?  
 (a) Oxytocin (b) Corticotropin (c) Insulin (d) Cortisone
- Q53. The site of Harappa is located on the bank of river  
 (a) Saraswati (c) Beas (b) Indus (d) Ravi
- Q54. Who among the following Governor Generals formed the Triple Alliance against Tipu Sultan?  
 (a) Warren Hastings (b) Lord Cornwallis (c) Lord Wellesley (d) Lord William Bentinck
- Q55. The Cabinet Mission Plan for India envisaged a  
 (a) Federation (b) Confederation  
 (c) Unitary form of Government (d) Union of States
- Q56. Who among the following Chinese travellers visited the Kingdoms of Harsrhavardhana and Kumar Bhaskar Varma?  
 (a) I-Tsing (b) Fa-Hien (c) Hiuen Tsang (d) Sun Shuyun
- Q57. Which one among the following states was first annexed by Lord Dalhousie under the Doctrine of Lapse?  
 (a) Nagpur (b) Jhansi (c) Sambalpur (d) Satara
- Q58. Which one among the following Indus cities was known for water management?  
 (a) Lothal (b) Mohenjodaro (c) Harappa (d) Dholavira
- Q59. The Name of Ram Prasad Bismil is associated with  
 (a) Kanpur Conspiracy Case (b) Alipore Conspiracy Case  
 (c) Kakori Conspiracy Case (d) Meerut Conspiracy Case
- Q60. The purpose of Directive Principles of State Policy is to  
 (a) lay down positive instructions which would guide State Policy at all levels  
 (b) implement Gandhiji's idea for a decentralised state  
 (c) check the use of arbitrary powers by the government  
 (d) promote welfare of the backward sections of the society
- Q61. The Chief Election Commissioner of India holds office for a period of  
 (a) six years  
 (b) during the pleasure of the President  
 (c) for 6 years or till the age of 65 years, whichever is earlier  
 (d) for 5 years or till the age of 60 years, whichever is earlier
- Q62. The tenure of every Panchayat shall be for five years from the date of  
 (a) its first meeting  
 (b) issue of notification for the conduct of elections to the Panchayat  
 (c) declaration of the election results  
 (d) taking oath of office by the elected members
- Q63. A market in which there are large numbers of sellers of a particular product, but each seller sells somewhat differentiated but close products is termed as  
 (a) Perfect competition (b) Monopoly (c) Monopolistic competition (d) Oligopoly
- Q64. MONEX is associated with  
 (a) Montreal experiment (b) Monetary experiment (c) Lunar experiment (d) Monsoon experiment
- Q65. The Circle of illumination divides Earth into two hemispheres known as  
 (a) East and West (b) North and South (c) Day and night (d) Summer and Winter

- Q66. Which one among the following is a sea without having coastline?  
 (a) North sea (b) Sargasso sea (c) Baltic sea (d) Bering sea
- Q67. In soil, water that, is readily available to plant roots is  
 (a) gravitational water (b) capillary water (c) hygroscopic water (d) bound water
- Q68. Mid-latitude cyclones  
 (a) usually move across North-America from (b) are generally found only over the ocean  
 (c) generally bring clear skies and little precipitation (d) are formed in regions of strong temperature
- Q69. Red soil colour is caused by  
 (a) aluminium compounds (b) mercury compounds (c) iron compound (d) clay
- Q70. The westerlies have their origin in the  
 (a) polar highs (b) subtropical highs (c) equatorial lows (d) sub polar lows

### PART-III : ENGLISH

**Analyze the content of the passage and then answer the questions that follow passage.**

The enjoyment of physical possession of things would seem to be one of the prerogatives of wealth which has been little impaired. Presumably nothing has happened to keep the man who can afford them from enjoying his Rembrandt and his home-grown orchids. But enjoyment of things has always been associated with the third prerogative of wealth which is the distinct it confers. In a world where nearly everyone was poor, the distinction was very great. It was the natural consequence of rarity. In England it is widely agreed, the ducal families are not uniformly superior. There is a roughly normal incidence of intelligence and stupidity, good taste and bad taste, morality, immorality. But very few people are dukes and duchesses, although the latter have become rather more frequent with modern easing of divorce laws. As a result, even though they may be intrinsically unexceptional they are regarded with some awe. So it has long have been with the rich. Were dukes numerous their position would deteriorate. As the rich have become more numerous, they have inevitably becomes a debased currency.

- Q71. The distinction conferred by wealth  
 (a) was unfair to the poor (b) was unlikely to spread throughout the world  
 (c) was very great when there were many rich people (d) was very great when there were few rich people
- Q72. The enjoyment of the physical possession of things  
 (a) is one of the privileges of wealth which has not been changed  
 (b) is one of the privileges of wealth which should be curtailed  
 (c) has little to do with the prerogatives of wealth  
 (d) is a prerogative of wealth which cannot be disputed
- Q73. Ducal families in England  
 (a) are generally agreed to be fairly common (b) are generally agreed to be fairly superior  
 (c) are superior because they are rich (d) are generally agreed not to be always better than others
- Q74. There are more duchesses now because  
 (a) it is easier for dukes to divorce and remarry (b) dukes are more immoral than they used to be  
 (c) their position has deteriorated (d) they are debased
- Q75. Among the ducal families  
 (a) there is great deal of immortality (b) there is a fairly even spread of virtues and vices  
 (c) there is a great deal of bad taste (d) there is either great intelligence or great stupidity

**Choose the word which best expresses nearly the same meaning of the given word.**

- Q76. HIATUS  
 (a) Atrocious (b) Gap (c) Dominance (d) Obscure
- Q77. MACABRE  
 (a) Innocent (b) Tarrified (c) Gruesome (d) Pleasing
- Q78. FEIGN  
 (a) Hesitate (b) Pretend (c) Deserve (d) Attend
- Q79. GRIT  
 (a) Bold (b) Courage (c) Grease (d) Level
- Q80. FOMENT  
 (a) Instigate (b) Shield (c) Frustrate (d) Waver

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

- Q81. I hope you won't object to me watching while you work.  
(a) against me watching (b) me to watch (c) to my watching (d) No improvement
- Q82. You cannot forbid him leaving.  
(a) he leaving (b) his leaving (c) him to leave (d) No improvement
- Q83. 20 kms are not a great distance in these days of fast moving vehicles.  
(a) is not a great distance (b) is no distance (c) aren't a great distance (d) No improvement
- Q84. The more they earn, more they spend.  
(a) More they earn, more they spend (b) More they earn, the more they spend  
(c) The more they earn, the more they spend (d) No improvement
- Q85. It became clear that the strangers were heading into a serious disaster.  
(a) along (b) towards (c) for (d) No improvement

In each of the following question, out of the given words, one word is mis-spelt. Find the mis-spelt word.

- Q86. (a) Impetuous (b) Impetinent (c) Imperial (d) Implication
- Q87. (a) Prefer (b) Defer (c) Difer (d) Refer
- Q88. (a) Mercenary (b) Machinery (c) Missionery (d) Visionary

Choose the word which best expresses the opposite meaning of the word.

- Q89. ELAN  
(a) Brashness (b) Dignity (c) Composure (d) Nervousness
- Q90. PENCHANT  
(a) Disinclination (b) Lone (c) Directness (d) Lack of skill
- Q91. SUBLIME  
(a) Base (b) Concise (c) Partial (d) Insist
- Q92. PRIMITIVE  
(a) Polite (b) Naive (c) Weak (d) Sophisticated
- Q93. REGRESSION  
(a) Reverse (b) Relapse (c) Regenerate (d) Retreat

Fill up the blanks with the most appropriate word from the option given below.

- Q94. The battalion operating from the mountain was able to tie \_\_\_\_\_ three enemy divisions.  
(a) up (b) down (c) on (d) with
- Q95. A great literary or artistic work is known as \_\_\_\_\_.  
(a) par excellence (b) bete noire (c) peccadillo (d) magnum opus
- Q96. Since the British were masters of the seas, no \_\_\_\_\_ power could venture into Indian waters under British rule.  
(a) territorial (b) continental (c) maritime (d) geo-political
- Q97. One dark night a Darvesh \_\_\_\_\_ passing by a dry well.  
(a) wasn't (b) happened to be (c) discovered in (d) found to
- Q98. The neighbour grabbed the boy, and rolled him on the road to \_\_\_\_\_ the flames.  
(a) cover (b) kill (c) burn out (d) fizz out

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

- Q99. If he did not know (a)/ what to do (b)/ he would have asked us. (c)/ No error (d)/
- Q100. I would love to be able to swim (a)/ if I am not afraid (b)/ of water (c)/ No error (d)/

**PART-I : REASONING**  
**ANSWER PRACTICE TEST PAPER - 5**

1. (c) 39  
*Explanation:*  
The pattern is +3, + 5, +7,+ 9, ..... So, missing term =  $28 + 11 = 39$
2. (b)  $\frac{19}{42}$   
*Explanation:*  
The sequence in the numerators is + 5,+ 10, + 20, and that in the denominators is + 11, + 22, + 44,..... So, the numerator of the missing fraction should be 19 i.e. 19 and the denominator should be (be (20+22) Le. 42. Thus, the missing term is  $\frac{19}{42}$
3. (c) T  
*Explanation:*  
 $B \xrightarrow{+2} D \xrightarrow{+2} F \xrightarrow{+3} I \xrightarrow{+3} L \xrightarrow{+4} P \xrightarrow{+4} T$
4. (b) HWG  
*Explanation:*  
Ist Letter :  $B \xrightarrow{+2} D \xrightarrow{+2} F \xrightarrow{+2} H \xrightarrow{+2} J$   
IInd Letter :  $Z \xrightarrow{-1} T \xrightarrow{-1} X \xrightarrow{-1} W \xrightarrow{-1} V$   
IIIrd Letter :  $A \xrightarrow{+2} C \xrightarrow{+2} E \xrightarrow{+2} G \xrightarrow{+2} I$
5. (c) aammnn  
*Explanation:* The series is man/man/man/man/man. Thus, the pattern 'man' is repeated.
6. (c) Y88B  
*Explanation:*  
Ist Letter :  $Q \xrightarrow{+2} S \xrightarrow{+2} U \xrightarrow{+2} W \xrightarrow{+2} Y$   
IInd Letter :  $1 \xrightarrow{\times 1 + 1} 2 \xrightarrow{\times 2 + 2} 6 \xrightarrow{\times 3 + 3} 21 \xrightarrow{\times 4 + 4} 88$   
IIIrd Letter :  $F \xrightarrow{-1} E \xrightarrow{-1} D \xrightarrow{-1} C \xrightarrow{-1} B$
7. (b) Idiot  
*Explanation:* The words in each pair are antonyms of each other.
8. (b) Gangue  
*Explanation:* The waste of the house is called garbage. Similarly, the impurities in the ore are called gangue.
9. (d) Australia  
*Explanation:* Ottawa is the capital of Canada and Canberra is the capital of Australia.
10. (c) 50  
*Explanation:* Using the correct symbols, we have:  
Given expression  $(10 \times 4) + (4 \times 4) - 6$   
 $= 40 + 16 - 6 = 56 - 6 = 50.$
11. (a) Jowar-Bajra  
*Explanation:* All are food crops.
12. (a) Adrenal  
*Explanation:* All are endocrine glands.
13. (c) Brink  
*Explanation:* All are synonyms.
14. (c) Bracelet  
*Explanation:* All are items of jewellery
15. (d) Brain  
*Explanation:* All except Brain are sense organs.
16. (b) Rack  
*Explanation:* All except Rack can be closed.
17. (c) 39  
*Explanation:* We have:  $3 \times 2 - 1 = 5, 5 \times 2 - 2 = 8, 8 \times 2 - 3 = 13, 13 \times 2 - 4 = 22.$   
So, missing number =  $22 \times 2 - 5 = 39.$
18. (c) 8  
*Explanation:* We have:  $3^2 + 4^2 = 5^2;$   
 $5^2 + (12)^2 = (13)^2.$  Let the missing number be x.  
Then,  $x^2 + (15)^2 = (17)^2 \Leftrightarrow x^2 = 64 \Leftrightarrow x = 8.$
19. (b) 37  
*Explanation:* We have:  $(3 \times 3) + (5 \times 6) = 39;$   
 $(4 \times 4) + (7 \times 5) = 51.$   
So, missing number  $(3 \times 4) + (5 \times 5) = 37.$
20. (c) Chair: Sofa  
*Explanation:* In all other pairs, second is a part of the first.
21. (c) Tree: Forest  
*Explanation:* In all other pairs, second is a unit of the first.
22. (c) HCPFQK  
*Explanation:* The first, second, third, fourth, fifth, sixth and seventh letters in the word are moved one, two, three, four, five, six and seven steps forward respectively to obtain the corresponding letters of the code.

23. (d) W  
 Explanation: Each letter in the given message is moved two steps backward to obtain the corresponding letter of the code.

The last letter of the third word in the given sentence is Y, which shall be coded as W

24. (d) Roof  
 Explanation: A person will stand on the floor and floor is called roof. So, a person will stand on the roof.

25. (b) Sky  
 Explanation: The colour of clear sky is 'blue' and as given, 'blue' is called 'sky'. So, the colour of clear sky is 'sky'.

26. (d) Niece  
 Explanation: Mother's mother- Maternal grandmother; Maternal grandmother's only son- Maternal uncle. So, the man is woman's maternal uncle i.e. the woman is man's niece.

27. (c) Aunt  
 Explanation: Manju's mother's son- Manju's brother, Manju's brother's father- Manju's father; Manju's father's sister- Manju's aunt.

28. (c) Grinder  
 Explanation: The lady shall bake in an 'oven' but 'oven' is called 'grinder'. So, the lady will bake in 'grinder'.

29. (c) Star  
 Explanation: Birds fly in the 'sky' and as given, 'sky' is 'star'. So, birds fly in the 'star'.

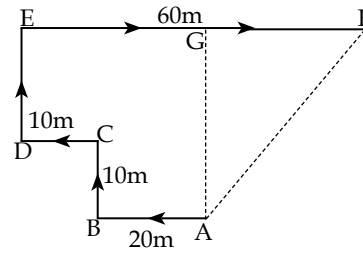
30. (d) Niece  
 Explanation: Asha's mother's mother is man's mother i.e., Asha's mother is man's sister or Asha is man's niece.

31. (a) Brother-in-law  
 Explanation: Anuj's daughter's mother- Anuj's wife; Anuj's wife's father- Anuj's father-in-law; Father-in-law's son- Anuj's brother-in-law. So, Manish is Anuj's brother-in-law.

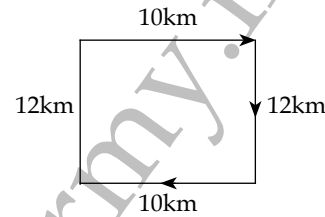
32. (d) P and T  
 Explanation: S is sitting next to P. So, the order S, P or P, S is followed. K is sitting next to R. So, the order R, K is followed because R is on the extreme left. T is not next to P or K.  
 So, the arrangement will be R, K, P, S, T. Clearly, P and T are sitting adjacent to S.

33. (b) D  
 Explanation: Clearly, A is shorter than each one of C and E. Thus, D is taller than each one of A, C and E. But, B is taller than D. So, B is the tallest and D comes next.

34. (d) North-east  
 Explanation: The movements of the person are from A to F. as shown in Fig. Clearly, the final position is F which is to the North-east of the starting point A.



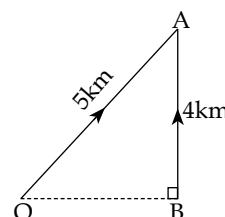
35. (d) 10 km  
 Explanation:  $AD = BC = 10\text{km}$



36. (c) X  
 Explanation: R is on the left of A i.e. R, A. A and P are at the ends i.e. P, ..., R, A. S and Z are at the centre i.e. P, ..., S, Z, R, A. Thus, the arrangement in the row is: P, X, S, Z, R, A. Clearly, X is on the right of P.

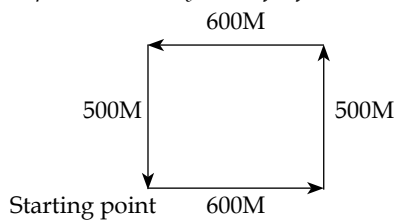
37. (d) Cannot be determined  
 Explanation: In terms of heights, we have:  
 Rohan > Daksh > Manick, Daksh > Somesh > Farhan.  
 Thus, the whole sequence may be:  
 (i) Rohan > Daksh > Manick > Somesh > Farhan; or  
 (ii) Rohan > Daksh > Somesh > Manick > Farhan; or  
 (iii) Rohan > Daksh > Somesh > Farhan > Manick.  
 Thus, either Manick or Farhan may be the shortest. So, the given information is insufficient.

38. (b) 3 km in the East  
 Explanation: The villager moves from his village at O to his uncle's village at A and thereafter to his father-in-law's village at B. Fig.  
 Clearly,  $\Delta OBA$  is right-angled at B.  
 So,  $OA^2 = OB^2 + AB^2$   
 $\Rightarrow OB^2 = OA^2 - AB^2$   
 $\Rightarrow OB = \sqrt{(25 - 16)} \text{ km} = (\sqrt{9}) \text{ km} = 3 \text{ km}$ .  
 Thus, B is 3 km to the east of his initial position O.



39. (a) 0

Explanation: Pinky is 0M far from the starting point.



40. (c) 47

Explanation: A is 18th from front and C is 25th.

Number of persons between A and C = 6.

Since C is exactly in middle of A and B, so number of persons between C and B = 6

$\leftarrow \overset{17}{\rightarrow} A \leftarrow \overset{6}{\rightarrow} C \leftarrow \overset{6}{\rightarrow} B \leftarrow \overset{15}{\rightarrow}$

$\therefore$  Number of persons in the queue

$= (17 + 1 + 6 + 1 + 6 + 1 + 15) = 47.$

## PART-II : GENERAL KNOWLEDGE

### ANSWER PRACTICE TEST PAPER - 5

41. (c) Sound  
42. (a) either plane or convex  
43. (a) Because of the air encapsulated between two layers  
44. (a) non-contact forces  
45. (a) John Dalton  
46. (d) Acetylene  
47. (a) chemical energy  
48. (b) a compound  
49. (c) Insulin  
50. (b) low partial pressure of oxygen  
51. (d) lymphocytes  
52. (c) Insulin  
53. (d) Ravi  
54. (b) Lord Cornwallis  
55. (d) Union of States  
56. (c) Hiuen Tsang  
57. (d) Satara  
58. (d) Dholavira  
59. (c) Kakori Conspiracy Case  
60. (a) lay down positive instructions which would guide State Policy at all levels  
61. (c) for 6 years or till the age of 65 years, whichever is earlier  
62. (a) its first meeting  
63. (c) Monopolistic competition  
64. (d) Monsoon experiment  
65. (c) Day and night  
66. (b) Sargasso sea  
67. (b) capillary water  
68. (d) are formed in regions of strong temperature  
69. (c) iron compound

## PART-III : ENGLISH

### ANSWER PRACTICE TEST PAPER - 5

70. (b) subtropical highs  
71. (d) was very great when there were few rich people  
72. (a) is one of the privileges of wealth which has not been changed  
73. (d) are generally agreed not to be always better than others  
74. (a) it is easier for dukes to divorce and remarry  
75. (b) there is a fairly even spread of virtues and vices  
76. (b) Gap  
77. (c) Gruesome  
78. (b) Pretend  
79. (b) Courage  
80. (a) Instigate  
81. (c) to my watching  
82. (c) him to leave  
83. (a) is not a great distance  
84. (c) The more they earn, the more they spend  
85. (b) towards  
86. (b) Impetinent  
87. (c) Difer  
88. (c) Missionery  
89. (d) Nervousness  
90. (a) Disinclination  
91. (a) Base  
92. (d) Sophisticated  
93. (c) Regenerate  
94. (b) down  
95. (d) magnum opus  
96. (c) maritime  
97. (b) happened to be  
98. (b) kill  
99. (a) If he did not know  
If he hadn't known what to do, he would have asked us.  
100. (b) if I am not afraid  
I would love to be able to swim, if I was not afraid of water.