KTST (Knewton's Trend Setter Test)

Class: VII **Duration: 60 Min** **M.M: 150**

Subjects		
Mental Ability	**Mathematics**	**Science**

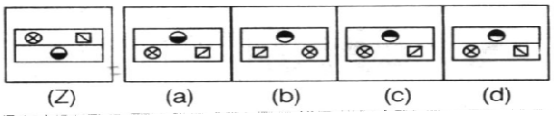
General Instructions:

1. The Test is of1 hour duration.
2. This Test Consist of three sections, section-A (Mental Ability), section-B (Mathematics) & Section-C (Science).
3. All three sections Consist of 5 Marks for each question.
4. There will be only one correct choice in the given Sections for each questions.
5. Use Blue/Black Ball Point Pen only for writing particulars/making responses on side-1 and side-2 of the answer sheet. Use of Pencil is strictly prohibited.
6. No candidate is allowed to carry any textual material, printed or written, bits of papers, pagers, any electronic device, etc. Except the admit card inside the examination hall/room.
7. Rough work is to be done on the space provided for this purpose on this test booklet only.
8. On completion of the test, the candidate must handover the answer sheet to the invigilator on duty in the room/hall. Candidates are allowed to take away the test booklet with them.
9. Do not fold or make any stray marks on the Answer Sheet
10. Make sure to fill all you details properly in OMR SHEET/Answer Sheet as per the given columns.

Section- A (Mental Ability)

1. If 'finger' is called 'toe', 'toe' is called 'foot', 'foot' is called 'thumb', 'thumb' is called ankle, 'ankle' is called 'palm' and 'palm is called 'knee', which one finger has different name?
   a. Thumb (b) Ankle (c) Knee (d) Palm
2. Find the odd one
   (a) Pen (b) Pencil (c) Ball pen (d) Eraser
3. How many such 5s are there in the following number sequence which are immediately preceded by 7 but not immediately followed by 9?
   2 5 9 7 5 2 1 4 7 5 9 3 1 7 5 2 8 7 5 9 4 7 5
   a. One (b) Two (c) Three (d) Four
4. Pointing to a woman in the photograph, a man says, "This woman is the wife of the father of my bother-in- law". How is the woman related to the man?
   a. Mother (b) Mother-in-law (c) Sister (d) Sister-in-law
5. A boy ride his bicycle Northwards, then turned left and ride 1 km and again turned left and rode 2 km. He found himself exactly 1 km West of his starting point. How far did he ride Northwards initially?
   a. 1 km (b) 2 km (c) 3 km (d) 5 km
6. Ravi is 7th ranks ahead of Sumit in a class of 39. If sumit's rank is 17th from the last, what is Ravi's rank from the top?
   (a) 14th (b) 12th (c) 16th (d) 11^{th}

7. Choose the correct water image.

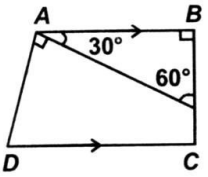


8. Which one of the following figures is correct, if total number of dots on opposite faces of a dice always remains 7?

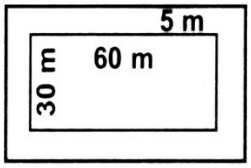
9. Which of two of the following are not neighbors?
   a. RV (b) UV (c) RP (d) QS
10. Which of the following statement is correct?
   (a) P is to the immediate right of Q (b) R is between U and V
   (c) S is to the immediate left of W (d) U is between W and S

Section- B (Mathematics)

1. John goes 10 km towards east from a point P to another point Q. From Q he moves 7 km towards his left reach at another point S and again 10 km towards his left and finally reach at point R. If the distance towards north and east are represented by positive integer then which integer will represent his final distance from P
   (a) -27 km (b) 7 km (c) -7 km (d) 17 km
2. If two supplementary angles differ by 44˚, then one of the angle is…….
   (a) 102˚ (b) 65˚ (c) 112˚ (d) 72˚
3. AB ll DC, then $\angle ADC$ is equal to ……



   (a) 90˚ (b) 45˚
   (c) 60˚ (d) 75˚
4. A man sold 10 eggs for 5 rupees and gained 20%. How many eggs did he buy for 5 rupees?
   (a) 12 (b) 14 (c) 2 (d) 16
5. A 5m wide lawn is cultivated all along the outside of a rectangular plot measuring 60m × 30m. The total area of the lawn is……



   (a) 1000 m^2 (b) 2000 m^2
   (c) 475 m^2 (d) 1500 m^2
6. If the mean of 6, 8, 5, x and 4 is 7, then the value of x is……
   (a) 11 (b) 12 (c) 13 (d) 14
7. If '+' means 'x', 'x' means '-', '-' means '÷' and '÷' means '+', then $18 \div 4 + 3 \times 2 - 2 =$? (a) 45 (b)

48 (c) 29 (d) 39

8. The value of $(-1)^{27} \times (-1)^{53} \times (-1)^4$ is .....
   (a) -1 (b)1 (c) -1 or 1 (d) 2

9. Which one of the following options is the solution of the equation_____ $\frac{7-x}{x+1} = 3$?
   (a) 4 (b) 3 (c) 2 (d) 1

10.
The value of the expression $\frac{1024 \times 243 \times 625}{2048 \times 729 \times 3125}$ is given by:

(a) $\frac{1}{30}$ (b) $\frac{1}{15}$ (c) $\frac{1}{6}$ (d) $\frac{1}{10}$

Section- C (Science)

1. A horse runs a distance of 1200 m in 2 minutes. What is its speed?
   (a) 6 m/s (b) 10 m/s (c) 24 m/s (d) 600 m/s

2. Which one of the following causes scarcity of water?
   a. Over population (b)Deforestation (c)Scanty rainfall (d)All of these
3. How can we universally overcome the problem of water scarcity?
   a. By overusing water from water bodies.
   b. By keeping the taps open, even after filling the containers.
   c. By reducing pressure in public water taps in a locality.
   d. By better water management.

4. Which of the following replenishes the surface water and groundwater?
   a. Lake water (b) Rain water (c) River water (d) All of these

5. Which of the following are decomposers?
   a. Bacteria and fungi (b)Bryophytes (c)Dead leaves (d)Dead animals

6. Which statement describes the motion and the arrangement of the molecules in the gas?
   a. Molecules move randomly within an order arrangement.
   b. Molecules move randomly within a random arrangement.
   c. Molecules vibrate about a fixed position within an ordered arrangement.
   d. Molecules vibrate about a fixed position within a random arrangement.
7. Air exerts pressure in
   a. Downward direction only (b) Upward direction only
   (c) Sideways only (d) All directions.
8. The plants that contain green pigment called_____can produce their own food.
   a. Guard cells (b) Chlorophyll (c) Sap (d) Stomata

9. Which one of the following works is not done by forests?
   a. Forests prevent floods
   (b)Forests prevent soil erosion
   (c)They supply carbon dioxide to the atmosphere
   (d) They supply oxygen to the atmosphere
10. Which of the following events occurring in nature is periodic?
(a) Barking of dog (b) Intensity of rainfall (c) Flying of bird (d) Rising of the sun

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