



**TALLENTEX (Pre) 2015 : (12, October 2014)** 



# CLASS -7<sup>th</sup> (VII)

Duration: 2 Hrs. Maximun Marks: 320

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.

**Things NOT ALLOWED in EXAM HALL:** Blank Paper, clipboard, log table, slide rule, calculator, camera, mobile and any electronic or electrical gadget. If you are carrying any of these then keep them at a place specified by invigilator at your own risk

## **INSTRUCTIONS**

- 1. This booklet is your Question Paper. DO NOT break seal of Booklet until the invigilator instructs to do so.
- 2. Fill your TALLENTEX Form No. in the space provided on the top of this page.
- 3. The Answer Sheet is provided to you separately which is a machine readable Optical Response Sheet (ORS). You have to mark your answers in the ORS by darkening bubble, as per your answer choice, by using black ball point pen.
- 4. Total Questions to be Attempted 80. Part-I: 20 Questions & Part-II: 60 Questions.
- 5. After breaking the Question Paper seal, check the following:
  - a. There are 16 pages in the booklet containing question no. 1 to 80 under 2 Parts i.e. Part-I & Part-II.
  - b. Part-I contains total 20 questions of IQ (Mental Ability).
  - c. Part-II contains total 60 questions under 4 sections which are Section (A): Physics, Section (B): Chemistry, Section(C): Biology & Section (D): Mathematics.
- 6. Marking Scheme:
  - a. If darkened bubble is RIGHT answer: 04 Marks.
  - b. If darkened bubble is WRONG answer: -01 Mark (Minus One Mark).
  - c. If no bubble is darkened in any question: No Mark.
- 7. Think wisely before darkening bubble as there is negative marking for wrong answer.
- 8. If you are found involved in cheating or disturbing others then your ORS will be cancelled.
- 9. Do not put any stain on ORS and hand it over back properly to the invigilator.
- 10. You can take along the question paper after the test is over.

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## **PART-I**

## **IQ** (MENTAL ABILITY)

This section contains **20 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

1. Tick  $(\checkmark)$  in the answer figures which comes next.

#### **Problem Figure**

(A)	(B)	(C)	(D)		

#### **Answer Figure**

(1)	(2)	(3)	(4)		

2. What number should replace the question mark in the diagram?

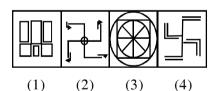
3	6	9
5	8	20
4	7	?

- (1) 11
- (2) 14
- (3) 28
- (4) 12

3. In the question below, you are given a figure (X) followed by four alternative figures (1), (2), (3) and (4) such that fig. (X) is embedded in one of them. Trace out the figure which contains fig. (X) as its part.



(X)



**Directions** (Q.4 & Q.5): Six persons A, B, C, D, E and F and sitting in two rows three in each, facing each other.

E is not at the end of any row.

D is second to the left of F.

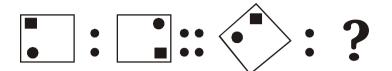
C the neighbour of E, is sitting diagonally opposite to D.

B is the neighbour of F.

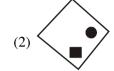
- **4.** Who among the following are sitting in the same row?
  - (1) A and B
- (2) C and F
- (3) C and B
- (4) A and E
- 5. If D and E exchange their seats who will be the neighbours of D in the new seating arrangment?
  - (1) only C
- (2) only B
- (3) E and B
- (4) C and A



**6.** Find the matching pair.











- 7. If MUSK is coded as 146816, then ZERO will be coded as
  - (1) 1015
- (2) 122912
- (3) 1813
- (4) 914

**Directions** (**Q.8 & Q.9**) Nine cricket fans are watching a match in a stadium. Seated in one row, they are J, K, L, M, N, O, P, Q and R. L is to the right of M and at third place to the right of N. K is at one end of the row. Q is seated adjacent to both O and P. O is at the third place a to the left of K. J is immediate next to left of O.

- **8.** Who is sitting at the centre of the row?
  - (1) L

(2) J

(3) O

(4) R

- **9.** Which of the following statement is true?
  - (1) N is two seats away from J.
  - (2) M is at one extreme end.
  - (3) R and P are neighbours.
  - (4) There is one person between L and O.
- 10. How many p's are there with 'f' before and after them in the sequence?

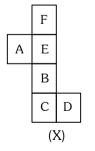
fpfppcfffpfpfpfpfppffppffpfpfpfpfpf

(1) 3

(2) 6

(3) 7

- (4) 8
- 11. Choose the box that is similar to the box formed from the given sheet of paper (X).





F D E D (2)





- (1) 1 only
- (2) 2 only
- (3) 1 and 3 only
- (4) 1, 2, 3 and 4



(1) K

(2) N

**12.** If 27 \* 3 = 243 and 5 \* 4 = 80. Then what is the value of 3 \* 7 = ?

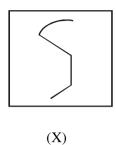
	(1) 84	(2) 147	(3) 63	(4) 23
13.			is given with one term miss eplace the question mark i	ing. Choose the correct alternative n the given series.
	AYBZC, DWEXF, C	GUHVI, JSKTL ?		
	(1) MQORN		(2) MQNRO	
	(3) NQMOR		(4) QMONR	
14.	If the dotted line show &(4).	vs the mirror, find	the correct image of the ob	pject from the options $(1)$ , $(2)$ , $(3)$
	(1)		(2)	
	(3)		(4)	
15.	Choose from the four relationship among the Man, father, brother	_	1), (2), (3) and (4) the one	that best illustrates the
	(1)		(2)	
	(3) 0 0		(4)	
16.	Find the missing letter	(?)		
	A D H F I M ? N R			

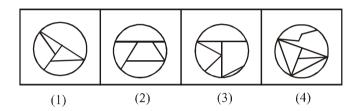
(3) O

(4) P

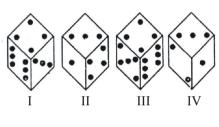


17. In the following question, you are given a figure (X) followed by four alternative figures (1), (2), (3) and (4) such that figure (X) is embedded in one of them. Trace out the alternative figures which contains figure (X) as its part.





- **18.** Anmol finds that he is twelfth from the right in a line of boys and fourth from the left, how many boys should be added to the line such that there are 35 boys in the line?
  - (1) 19
- (2) 31
- (3) 14
- (4) 20
- 19. How many dots are present on the dice face opposite to the three dots?

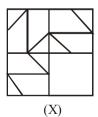


(1) 2

(2) 4

(3) 5

- (4) 6
- **20.** In the following question, select a figure from amongst the four alternatives, which when placed in the blank space of fig.(X) would complete the pattern.



- (1)
- (2)
- (3)
- (4)



## **PART-II**

## **SECTION-A: PHYSICS**

This section contains 12 Multiple Choice Questions. Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

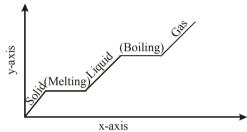
- Choose the incorrect match. 21.
  - (1) m/s velocity

(2) m/s<sup>2</sup> – acceleration

(3) light year – distance

- (4) m<sup>2</sup>/s displacement
- 22. Dhruv made this chart about an experiment in his science class. In this experiment, the students watched a piece of ice warm and change from a solid to a gas on a stove.

What should Dhruv label the x-axis and the y-axis on the chart?

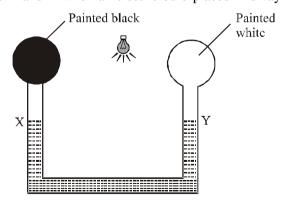


- (1) x-axis: time; y-axis: temperature
- (2) x-axis: temperature; y-axis: time (4) x-axis: temperature; y-axis: weight
- (3) x-axis: weight; y-axis: time
- 23. What is the order of the colours in the spectrum formed when white light passes through a triangular prism?
  - (1) red, orange, green, blue, yellow, indigo, violet
  - (2) red, orange, green, yellow, blue, indigo, violet
  - (3) red, orange, yellow, green, blue, indigo, violet
  - (4) red, yellow, orange, green, blue, indigo, violet
- A quantity has value of -6.0 ms<sup>-1</sup>. It may be the 24.
  - (1) Speed of a particle

(2) Velocity of a particle

(3) Position of a particle

- (4) Displacement of a particle
- The figure shows air-filled bulbs connected by a U-tube partly filled with alcohol. What happens to the **25.** levels of alcohol in the limbs X and Y when an electric bulb placed midway between the bulbs is lighted?



- (1) The level of alcohol falls in both limbs.
- (2) The level of alcohol in the limb X rises while that in limb Y falls.
- (3) The level of alcohol in limb X falls while that in limb Y rises.
- (4) There is no change in the levels of alcohol in the two limbs.



- **26.** A virtual image can never be
  - (1) smaller than the object.

(2) larger than the object.

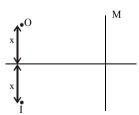
(3) captured on paper.

- (4) upright if the object is upright.
- **27.** A car moves with a speed of 60 km h<sup>-1</sup> for 20 min and then at a speed of 30 km h<sup>-1</sup> for the next 20 min. The total distance covered by the car is
  - (1) 10 km

(2) 20 km

(3) 30 km

- (4) 40 km
- **28.** Which of the following motions is not uniform?
  - (1) A satellite in orbit around the Earth.
  - (2) A ball rolls along a table without changing velocity.
  - (3) A jogger runs 50 m along a straight track at a constant speed.
  - (4) An elevator moves vertically upward at zero acceleration.
- **29.** Freezing point on a thermometer is marked as 20° and boiling point as 150°. A temperature of 60 °C on this thermometer will be read as
  - $(1) 25^{\circ}$
- (2) 65°
- (3) 98°
- (4) 110°
- 30. Stainless steel pans are usually provided with copper bottoms. The reason for this could be that
  - (1) Copper bottom makes the pan more durable
  - (2) Such pans appear colourful
  - (3) Copper is a better conductor of heat than the stainless steel
  - (4) Copper is easier to clean than the stainless steel
- 31. As the distance of an object from a converging mirror decreases, the image
  - (1) increases in size and moves away from the mirror.
  - (2) increases in size and moves toward the mirror.
  - (3) decreases in size and moves away from the mirror.
  - (4) decreases in size and moves toward the mirror.
- 32. In the diagram shown, M is a mirror, O is an object and I is its image. Predict the nature of the mirror.



(1) Convex mirror

(2) Concave mirror

(3) Plane mirror

(4) Nothing can be predicted



## **SECTION-B: CHEMISTRY**

This section contains **11 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

- 33. Which of these will react with oxygen to form an acidic oxide?
  - (1) Sodium

(2) Sulphur

(3) Calcium

(4) Zinc

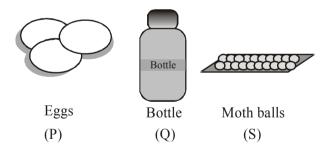
- **34.** Which of the following is true for acids?
  - (1) Bitter and change red litmus blue.
  - (2) Sour and change red litmus blue.
  - (3) Sour and change blue litmus red.
  - (4) Bitter and change blue litmus red.
- **35.** Which of the following are chemical changes?
  - (i) Decaying of wood
  - (ii) Burning of wood
  - (iii) Growth of wood in a tree.
  - (iv) Hammering of a nail into a piece of wood.
  - (1) (i) & (ii)

(2) (ii) & (iv)

(3) (iii) & (iv)

(4) (i), (ii) & (iii)

**36.** Three substances given below are kept in open for a few days and some changes were observed.



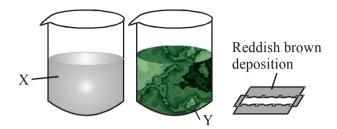
Which of the substances will show chemical changes?

(1) Eggs

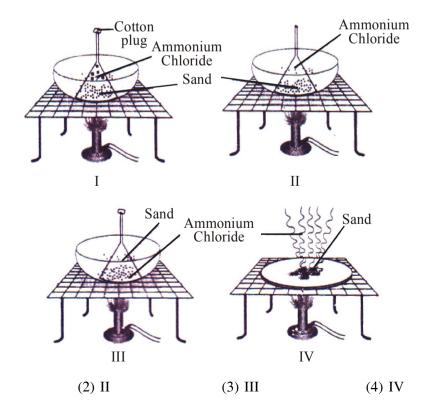
- (2) Plastic bottle
- (3) Both Eggs and moth balls
- (4) None of these
- **37.** Which of the following statement is **INCORRECT**?
  - (1) H<sub>2</sub>SO<sub>4</sub> is known as KING OF CHEMICALS.
  - (2) Aqua Regia is a mixture of conc. HCl and conc. HNO<sub>3</sub> in the ratio of 3:1
  - (3) The acid found in lemons is oxalic acid.
  - (4) The characteristic properties of acids is due to the hydronium ion.



38. Rishabh was performing an experiment with a blue coloured solution (X) in a beaker. By mistake a shaving blade fell into the beaker. After half an hour, he found that the colour of the solution in beaker changed to green (Y). What could be the solutions X and Y respectively?



- (1) Copper sulphate, Iron sulphate
- (2) Iron sulphate, Copper sulphate
- (3) Iron sulphate, Zinc sulphate
- (4) Copper sulphate, Zinc sulphate
- **39.** State which of the following is not likely to be an element.
  - I. On heating it gives off a gas and leaves a residue.
  - II. Burns in air to form carbon dioxide and water.
  - III. Changes into solid at 273 K and to a gas at 373 K.
  - (1) I (2) II and III
  - (3) I and III (4) I, II, III
- **40.** A student is given a mixture containing sand and ammonium chloride. He is asked to separate these two components. The correct way to separate these two components is



(1) I



- **41.** Which of the following solids undergo sublimation upon heating:
  - (1) Sugar

(2) NaCl

(3) Ice

- (4) Camphor
- **42.** Sunidhi was asked by her teacher to prepare a dilute sulphuric acid from concentrated sulphuric acid. What should she do?
  - (1) Add water to the acid
  - (2) Add acid to the water
  - (3) Add a base to the concentrated acid
  - (4) Add an alkali to the concentrated acid
- **43.** Match the following

	Column I	Column II			
(a)	No more solution can be dissolved	(i)	Threshing		
(b)	More solute can be dissolved	(ii)	Centrifugation		
(c)	Conversion of water vapour into water	(iii)	Saturated solution		
(d)	Removal of grain from stalk	(iv)	Unsaturated solution		
(e)	Separation of cream from curd	(v)	Condensation		

- (1)  $a \rightarrow (ii)$ ,  $b \rightarrow (iv)$ ,  $c \rightarrow (v)$ ,  $d \rightarrow (i)$ ,  $e \rightarrow (iii)$
- (2)  $a \rightarrow (iv)$ ,  $b \rightarrow (iii)$ ,  $c \rightarrow (v)$ ,  $d \rightarrow (ii)$ ,  $e \rightarrow (i)$
- (3)  $a \rightarrow (iii)$ ,  $b \rightarrow (iv)$ ,  $c \rightarrow (v)$ ,  $d \rightarrow (i)$ ,  $e \rightarrow (ii)$
- (4)  $a \rightarrow (iv)$ ,  $b \rightarrow (iii)$ ,  $c \rightarrow (v)$ ,  $d \rightarrow (i)$ ,  $e \rightarrow (ii)$

## **SECTION-C: BIOLOGY**

This section contains **12 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

- **44.** In which of the following process threads are taken out from the cocoons?
  - (1) Scorching
- (2) Shearing
- (3) Reeling
- (4) Spinning
- 45. The first compartment of cattle's stomach whose main function is to digest cellulose is
  - (1) Rumen

(2) Reticulum

(3) Omasum

- (4)Abomasum
- 46. Which of the following best explains why many birds and mammals migrate during the winter?
  - (1) To escape predators.
  - (2) To reproduce in a more favourable environment.
  - (3) To find a better environment in which to settle permanently.
  - (4) To find a more favourable environment in which to hibernate.
- 47. Digestion of carbohydrate takes place in
  - (1) Oesophagus and small intestine
  - (2) Stomach and large intestine
  - (3) Buccal cavity and small intestine
  - (4) Small intestine and large intestine

- 48. On what would an animal with a long digestive system and a large caecum probably feed on?
  - (1) Insects

(2) Bacteria

(3) Plants

(4) Herbivores

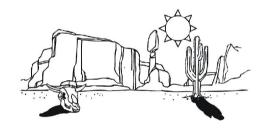
- 49. In which stage of life cycle of silkworm it feeds on mulberry leaves?
  - (1) Caterpillar

(2) Pupa

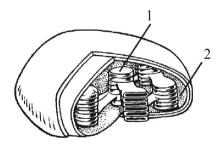
(3) Egg

(4) Adult moth

- 50. If you chew on a piece of bread long enough, it will begin to taste sweet because
  - (1) maltase is breaking down maltose
  - (2) lipases are forming fatty acids
  - (3) amylase is breaking down starches to disaccharides
  - (4) disaccharides are forming glucose
- **51.** What type of plant would be best suited for the environment shown below?



- (1) A large plant with large leaves
- (2) A small plant with large leaves
- (3) A large plant with no leaves
- (4) A small plant with small and scaly leaves
- **52.** Which reaction takes place in the thylakoid discs (1) of the chloroplast?

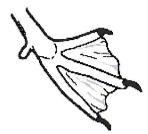


- (1) Carbon fixation
- (2) Light-dependent reaction
- (3) Light-independent reaction
- (4) Glycolysis



**53.** The following graphic shows a duck's feet. Which of the following explains how the structure of the feet enables the duck to survive in its environment?





- (1) The number of toes on the foot enables the duck to capture prey.
- (2) The webbing on the feet enables the duck to move through water.
- (3) The shape of the foot enables the duck to walk to find sources of water.
- (4) The presence of claws on the feet enables the duck to glide through the air.
- **54.** Silk is produced by
  - (1) Cuticle of larva

(2) Salivary glands of larva

(3) Cocoon

- (4) Salivary glands of adult
- 55. Black bears have thick fur that traps air. How does this air insulate the bear in winter?
  - (1) The air reduces thermal (heat) energy flow to the environment.
  - (2) The air produces thermal (heat) energy to keep the bear warm.
  - (3) The air transforms chemical energy to thermal (heat) energy.
  - (4) The air transfers thermal (heat) energy to the bear.

## **SECTION-D: MATHEMATICS**

This section contains **25 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

- **56.** Of the three angles of a triangle, one is twice the smallest and another is three times the smallest. Find the smallest angle.
  - $(1) 30^{\circ}$
- $(2) 40^{\circ}$
- $(3) 35^{\circ}$
- $(4) 50^{\circ}$

- 57.  $(-27) \times (-16) + (-27) \times (-14) = ?$ 
  - (1) 810
- (2) 810
- (3) -54
- (4) 54
- **58.** How much pure alcohol must be added to 400 ml of a 15% solution to make its strength 32%?
  - (1) 40 ml
- (2) 125 ml
- (3) 100 ml
- (4) 150 ml
- 59. A man goes 10 m due east and then 24 m due north. Find his distance from the starting point.
  - (1) 26 m
- (2) 25 m
- (3) 24 m
- (4) 27 m

- **60.** If a, b, c are integers, such that a > b, then
  - (1)  $a \times c > b \times c$ , if c is positive
- (2)  $a \times c < b \times c$ , if c is positive
- (3)  $a \times c > b \times c$ , if c is negative
- (4) None of these

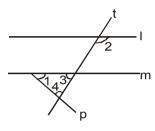
- 61. In a  $\triangle$ ABC, AD is the altitude from A such that AD = 12 cm, BD = 9 cm and DC = 16 cm. Examine if  $\triangle$  ABC is right angled at A?
  - (1) Yes

(2) No

(3) Cannot say

- (4) None of these
- **62.** The weight of 34 bags of sugar is 3483.3 kg. If all bags weigh equally, find the weight of each bag.
  - (1) 102.45 kg
- (2) 102 kg
- (3) 101.45 kg
- (4) 101 kg

**63.** In figure, line 1 || m,  $\angle 1 = 60^{\circ}$  and  $\angle 2 = 100^{\circ}$ , find  $\angle 4$ 

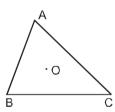


- (1) 80°
- (2) 30°
- (3) 50°

 $(4) 40^{\circ}$ 

- **64.** What should be subtracted from .1 to get .03?
  - (1).7

- (2).07
- (3) .007
- (4) None of these
- **65.** A picture frame is 80 cm by 60 cm then its diagonal is
  - (1) 75 cm
- (2) 95cm
- (3) 90 cm
- (4) 100 cm
- **66.** Find two numbers such that one of them exceeds the other by 9 and their sum is 81.
  - (1) 45, 36
- (2) 36, 47
- (3) 27, 36
- (4) 54, 45
- 67. O is any point inside the  $\triangle$ ABC. Then which one is true.



- (1) OA + OB + OC >  $\frac{1}{2}$  (AB + BC + CA)
- (2) OA + OB > AB
- (3) AB + BC + CA < 2 (OA + OB + OC)
- (4) All of these
- **68.** If  $x * y = x + y x \times y$  then find (-10) \* 5
  - (1) 45
- (2) 35
- (3) 35
- (4) 45
- **69.** Two poles of heights 6 m and 11 m stand on a plane ground. If the distance between their feet is 12 m, Find the distance between their tops.
  - (1) 13 m
- (2) 10 m
- (3) 9 m
- (4) 11 m



- **70.** The value of  $1 + \frac{1}{1 + \frac{1}{1 \frac{1}{2}}}$  is -
  - (1)  $\frac{3}{4}$

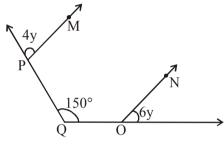
- (2)  $\frac{4}{3}$
- (3)  $\frac{5}{3}$

- (4) None of these
- **71.** A tanker contains 500 litres of water. Due to a small hole in the tanker, the quantity of water is decreasing at the rate of 9 litres every hour. What will be the quantity of water in the tank after 10 hours?
  - (1) 410 litres

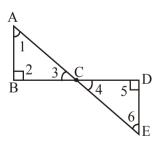
(2) 491 litres

(3) 400 litres

- (4) 390 litres
- 72. In the given figure, if PM  $\parallel$  ON, then y = ?



- (1) 15°
- (2) 13°
- (3) 60°
- (4) 90°
- 73. The product of two decimal numbers is 42.987. If one of them is 3.45, then the other number is
  - (1) 11.45
- (2) 12.46
- (3) 21.37
- (4) 15.39
- **74.** In the diagram below  $\angle 2$  and  $\angle 5$  are right angles.  $\triangle ABC$  is congruent to  $\triangle EDC$ . If  $\angle 1$  measure 50°, what is the measure of  $\angle 6$ ?



- $(1) 40^{\circ}$
- $(2) 50^{\circ}$
- $(3) 60^{\circ}$
- $(4) 70^{\circ}$
- **75.** Without actual computation, we can say that the value of  $\left(5\frac{7}{9} \div 7\frac{5}{9}\right)$  is
  - (1) Greater than 1

(2) Greater than 2

(3) Less than 1

(4) Less than 1/2



**76.** Which symbol will make the expression true?

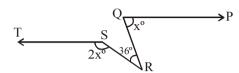


(1) <

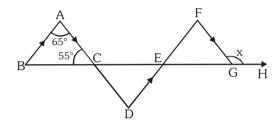
(2) >

- (3) =
- (4) +

77. QP||TS and  $\angle$ QRS = 36°. Calculate  $\angle$ PQR.



- (1) 75°
- $(2) 70^{\circ}$
- (3) 72°
- (4) 71°
- **78.** In figure, if BA || DF, AD || FG,  $\angle$ BAC = 65° and  $\angle$ ACB = 55°, then find  $\angle$ FGH.

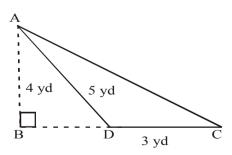


- $(1) 100^{\circ}$
- (2) 125°
- (3) 115°
- (4) 120°
- 79. Rita and Sita like to ride their bicycles on a six-mile path through town. They ride for  $3\frac{1}{3}$  miles and stop for a break. How much more do they need to ride to reach the end of the path?
  - (1)  $4\frac{1}{3}$  miles

(2)  $3\frac{1}{2}$  miles

(3)  $3\frac{1}{3}$  miles

- (4)  $2\frac{2}{3}$  miles
- **80.** What is the area of the  $\triangle ABC$ ?



- $(1) 6 yd^2$
- (2)  $7.5 \text{ yd}^2$
- $(3) 10 yd^2$
- $(4) 12 yd^2$



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# ANSWER KEY: CLASS - 7<sup>th</sup> (VII)

(Held on: 12-10-2014)

Q. No.	1	2	3	4	5	6	7	8	9	10
Ans.	2	2	3	4	4	2	2	2	4	4
Q. No.	11	12	13	14	15	16	17	18	19	20
Ans.	2	2	2	2	4	1	2	4	3	1
Q. No.	21	22	23	24	25	26	27	28	29	30
Ans.	4	1	3	2	3	3	3	1	3	3
Q. No.	31	32	33	34	35	36	37	38	39	40
Ans.	1	2	2	3	4	4	3	1	4	1
Q. No.	41	42	43	44	45	46	47	48	49	50
Ans.	4	2	3	3	1	2	3	3	1	3
Q. No.	51	52	53	54	55	56	57	58	59	60
Ans.	4	2	2	2	1	1	2	3	1	1
Q. No.	61	62	63	64	65	66	67	68	69	70
Ans.	1	1	4	2	4	1	4	1	1	2
Q. No.	71	72	73	74	75	76	77	78	79	80
Ans.	1	1	2	2	3	2	3	2	4	4

