KTSE (Kutchi Talent Search Examination) – 2012
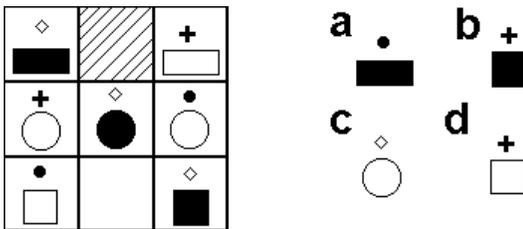## (Nanji Monji Dedhia Charitable Trust)

Name: _____ ID No.: _____

SET A

Instructions

➢ The exam duration is **100 minutes (1 hour and 40 minutes)**
➢ The exam is of 100 marks

➢ There are **75 questions** in two sections for a total of 100 marks
  o SECTION 1: **1 marks** each (50 questions adding up to **50** marks)
  o SECTION 2: **2 marks** each (25 questions adding upto **50** marks)
  o There is NO negative marking

➢ The rough work should be done on separate paper provided.

➢ Most questions are multiple choice. **With a pencil, fill the correct answer in the answer sheet separately provided.**

➢ Since some students might see visual questions for the first time, here is an example of a visual question

Example of Visual question:Fill in the white square with the figure that most logically fits in from the four figures (a,b,c,d)

Answer:
The correct answer is **(d)** since each row has a diamond, plus sign and dark circle on top of each figure. The blank square should have a plus sign on top of it. Also, each row has two white and one dark figures. The blank square should have a white figure. Hence the white square with the plus on top of it is the correct answer

ALL THE BEST !!

SECTION 1

ALL QUESTIONS IN THIS SECTION ARE OF 1 MARKS

Q1: (1 mark) Priya scored an average of 76 on her first three tests of the year. What would she have to score on the fourth test to have an average of 81 on these four tests?

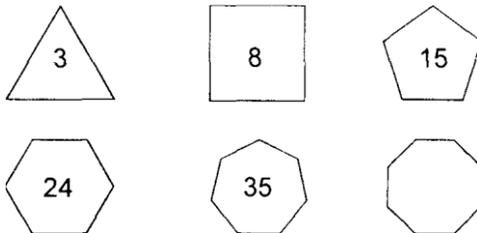A: 86   B: 78   C: 90   D: 94   E: 96

answer

Q2: (1 mark) Which letter comes next ?

          X   W   U   R   N   I   ?

A: A   B: B   C: C   D: D   E: E

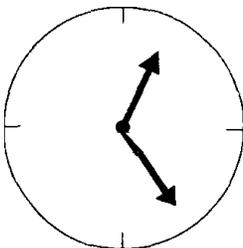**Q3:** (1 mark) Which number completes the last diagram?

A: 40   B: 44   C: 48   D: 56   E: 64

Q4: (1 mark) What is the next number in this sequence ?

  5   6   10   17   27   40   56   75   ___

A: 95   B:85   C: 87   D: 97   E: 89

Q5: (1 mark) If this clock is turned upside down and held in front of a mirror, what time is reflected ?

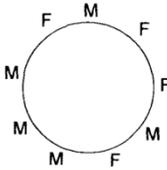A: 5:05   B: 6:55   C: 5:55   D: 1:25   E: 7:55

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Q6: (1 mark) Through how many degrees does the minute hand of a clock turn in the time interval from 9:34 A.M. to 10:02 A.M. on the same morning?

A: 160   B: 168   C: 178   D: 180   E: 360

Q7: (1 mark) A pencil and a pen together cost Rs 260. The pen costs Rs. 200 more than the pencil. How much does the pencil cost?

A: Rs. 10   B: Rs. 20   C: Rs. 60   D: Rs. 30   E: Rs. 90

Q8: (1 mark) At this round table of males (M) and females (F), the number of people sitting next to a female is ?

A: 4   B:5   C: 6   D:7   E: 8

Q9: (1 mark) On a balance scale, the following have equal weights: 2 chocloate chunks = 20 wafer packs, 15 wafer packs = 6 ice cream sticks. How many chocolate chunks are needed to balance 20 ice cream sticks ?

A: 5   B:6   C:7   D:8   E:10

Q10: (1 mark) Tushar drove away from Pune 10 minutes after Janvi, and overtook her in 20 minutes. If Tushar drove at a speed of 90 kph, what was Janvi's speed in kph ?

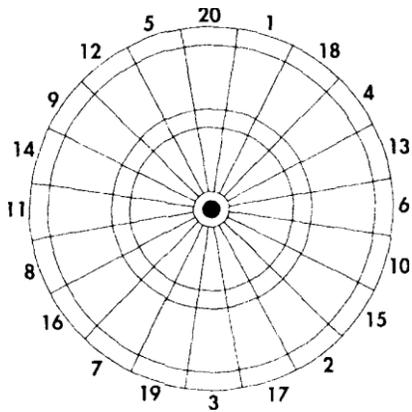A: 30 kph   B: 60 kph   C: 135 kph   D: 40 kph   E:180 kph

Q11: (1 mark) Deep buys Rs. 200 worth of paint and Sanya buys Rs.40 worth of paintbrushes. If they want to split costs equally, how much money does Sanya owe Deep?

A: 60   B:80   C:100   D: 120   E: 140

Q12: (1 mark) If today is Sunday, what day of the week will it be 4400 days from today?

A:Sunday   B:Monday   C: Tuesday   D: Wednesday   E: Thursday

Q13: (1 mark) On this dartboard, how many numbers are in the longest string of prime numbers that appear consecutively along the edge?

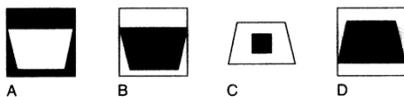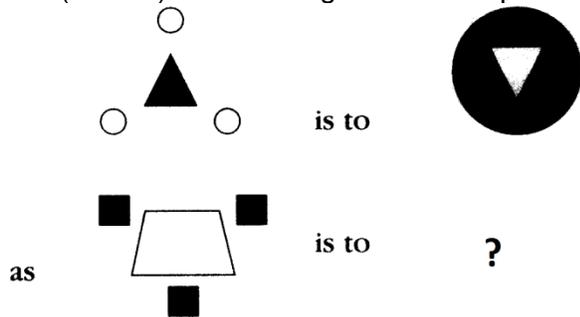A: 1   B: 2   C: 3   D: 4   E: 5

Q14: (1 mark) Five teams are in a round robin tournament in which every team plays every other team three times. How many games take place?

A:20   B: 25   C: 30   D: 35   E: 40

Q15: (1 mark) An evening theater performance is scheduled every third day. What is the maximum number of performances that can take place over a 25-day period?
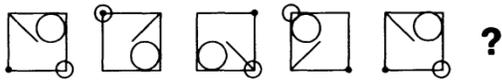
A: 5   B:6   C: 7   D: 8   E: 9

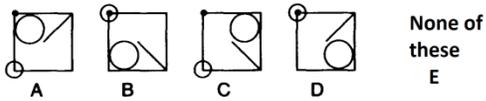**Q16:** (1 mark) Which image would complete the analogy ?

A: A   B:B   C:C   D:D   E:E

Q17: (1 mark) Which image would come next ?

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What comes next?

A: A   B: B   C: C   <u>D:D</u>   E: E

Q18: (1 mark) Mehrunisa is the 11th from both ends in a row of girls. How many girls are there in that row?

A: 19   B: 20   <u>C: 21</u>   D: 22   E: Not possible to decide

Q19: (1 mark) A person goes 2 kms towards East. He then turns right and goes 1 km. He turns again right and goes 3 kms straight. In which direction is he now relative to his starting place?

<u>A: South West</u>   B: North East   C: South East   D: North West   E: West

Q20: (1 mark) If 7 X 5 X 4 = 57354 and 8 X 7 X 3 = 78563 then 6 X 8 X 5 = ?

A: 86585   <u>B: 86485</u>   C: 86855   D: 68485   E: 86405

Q21: (1 mark) Two terms to the left of : : bear the same relationship as the two terms to its right. What is the missing term

? : JKHI   **: :**   TURS : OPMN

A: MNOP   B: LMNO   <u>C: OPMN</u>   D: NLMO   E:MONL

Q22: (1 mark) Find the related word

Suggest : Demand   **: :**   Take : ?
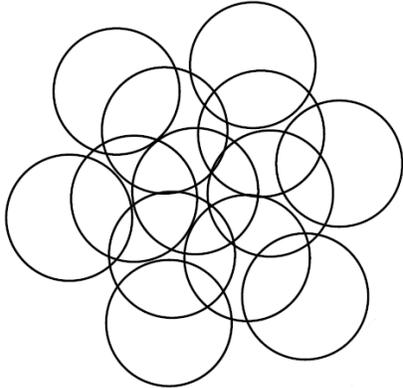
<u>A: Grab</u>   B: Give   C: Receive   D: Buy   E: Gift

Q23: (1 mark) Which option would best fill the spaces ?

? ? a b a ? ? b a ? ab

A: abbba   <u>B: abbab</u>   C: baabb   D: bbaba   E: ababa

Q24: (1 mark) How many circles are there in the following figure?

A: 11   B: 12   C: 13   D: 14   E: 15

Q25: (1 mark) During the first week of a sale, a suit originally costing Rs. 280.00 was reduced by 15%. At the beginning of the second week it was reduced by a further 10%.What was the final sale price?

A: Rs. 214.20   B: Rs. 210   C: Rs. 222.20   D: Rs. 215   E: Rs. 216.20

Q26: (1 mark) Which number should replace the question mark?

17   23 3/4   ?   37 1/4   44

A: 29 1/2   B: 30   C: 30 1/2   D: 31   E: 31 3/4

Q27: (1 mark) I am four times as old as my son. In 20 years' time, I shall be twice as old as him. How many years am I today?

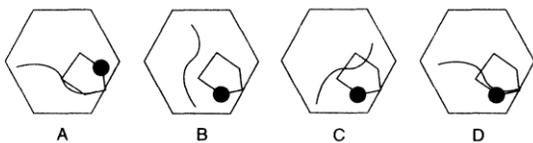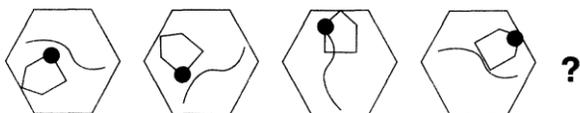A: 35   B: 50   C: 30   D: 45   E: 40

Q28: (1 mark) Which number should replace the question mark?
16   39   85   177   361   ?

A: 720   B: 721   C: 725   D: 729   E: 731

Q29: (1 mark) Which hexagon replaces the question mark?

A: A   B: B   C: C   D: D   E: None of the above

Q30: (1 mark) What number should replace the question mark?
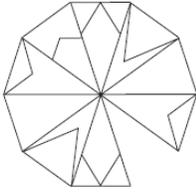
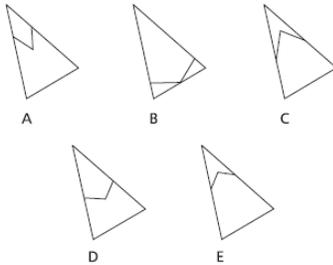27, 31, ?, 32, 29, 33, 30

A: 28   B:29   C:30   D:31   E: 25

Q31: (1 mark)

Find the missing section from the options below.

A: A   B: B   C: C   D: D   E: E

Q32: (1 mark)
  A B C D E F G H
What letter is two to the right of the letter immediately to the left of the letter that comes mid-way between the letter immediately to the left of the letter H and the letter two to the right of the letter A?

A:A   B:C   C: E   D:F   E: G

Q33: (1 mark) John likes 400 but not 300; he likes 100 but not 99; he likes 3600 but not 3700. Which does he like?

A:900   B:1000   C: 1100   D: 1200   E: 1300

Q34: (1 mark) Ten people can paint 60 houses in 120 days, so five people can paint 30 houses in how many days?

A: 15   B: 30   C: 60   D: 120   E: 240

Q35: (1 mark) Two cars start off at the same point on a straight highway facing opposite directions. Each car drives for 6 miles, takes a left turn, and drives for 8 miles.
How many miles apart are the two cars?

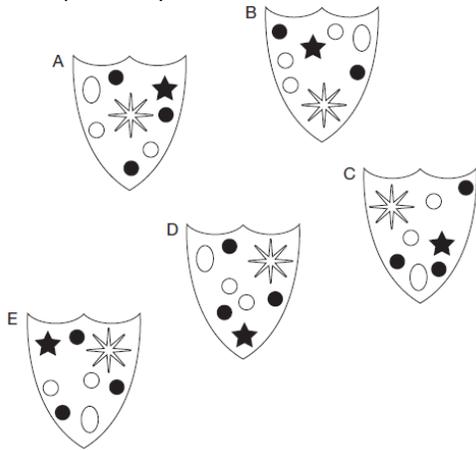A: 2   B: 11   C: 14   D: 16   E: 20

Q36: (1 mark) NASA received three messages in a strange language from a distant planet. The scientists studied the messages and found that "Necor Buldon Slock" means "Danger Rocket Explosion" and "Edwan Mynor Necor" means "Danger Spaceship Fire" and "Buldon Gimilzor Gondor" means "Bad Gas Explosion".

What does "Slock" mean?

A: Danger   B: Explosion   C: Nothing   D:Rocket   E: Gas

Q37: (1 mark) Which is the odd one out?

A: A   B:B   C:C   D:D   E: E

Q38: (1 mark) A motorist knows four different routes from Mumbai to Pune and three different routes from Pune to Kolhapur. How many different routes does the motorist know from Mumbai to Kolhapur via Pune?

A: 3   B:4   C:7   D: 12   E: Infinite

Q39: (1 mark) What day and date comes 43 days after Saturday 24 June?

A: Sunday, 6 August   B:Saturday, 6 August   C: Monday, 5 August
D: Saturday, 5 August   E: Sunday, 7 August

Q40: (1 mark) If tax is charged at 22% on the first Rs 550,000 and 35% on all income in excess of Rs. 550,000, how much total tax is charged on an income of Rs. 800,000?

A: Rs. 120,100   B: Rs.130,500   C: Rs. 150,600
D: Rs. 198,500   E:Rs. 208,500

Q41: (1 mark) Marts are twice as long as Mops. Mops are three times as long as Worbs. That means that

A: Worbs are six times as long as Marts   B: Marts are six times as long as Worbs
C: Marts are eight times as long as Worbs   D: Worbs are eight times as long as Marts
E:Marts are five times as long as Worbs

Q42: (1 mark) Half of Miks are Maks. One-fourth of Maks are Mokes. If Karan has 400 Miks, how many Mokes has he got?

A: 50   B:75   C:100   D:150   E:200

Q43: (1 mark) A bat and a ball cost Rs. 110 in total. The bat costs Rs.100 more than the ball. How much does the ball cost?

A: Rs. 5   B:Rs. 10   C: Rs. 1   D: Rs. 11   E: Rs. 20

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Q44: (1 mark) My successor's father is my father's son. I don't have any brothers or sons. Who is my successor?

A: Nephew   B: Daughter   C: Niece   D: Myself   E: No one

Q45: (1 mark) A person likes to own cows and birds. The cows and birds he has, together have 172 eyes and 344 legs. How many birds does he have?

A: 86   B: 74   C: 56   D: 32   E: 0

Q46: (1 mark) Divide 30 by half and add ten. What do you get?

A: 0   B: 25   C: 35   D: 45   E: 70

Q47: (1 mark) In four years time, the combined age of my three cousins and myself will be 208. What will be the combined age in seven years' time?

A: 215   B: 220   C: 225   D: 230   E: 240

Q48: (1 mark) I travel to work by bus and then by train. If my bus journey takes 28 minutes and my train journey takes 35 minutes longer, what is the total travelling time in hours and minutes?

A: 1 hr 30 mins   B: 1 h 3 mins   C: 1 hr 13 mins   D: 1 hr 31 mins
E: 2 hr 1 min

Q49: (1 mark) The greens are playing the blues. The greens have won more games than the blues. If the blues win this game, then which of the following cannot be true?

A: The blues have won more games than the greens
B: The greens have won more games than the blues
C: The greens and blues have won the same number of games
D: The reds have beaten both the greens and the blues
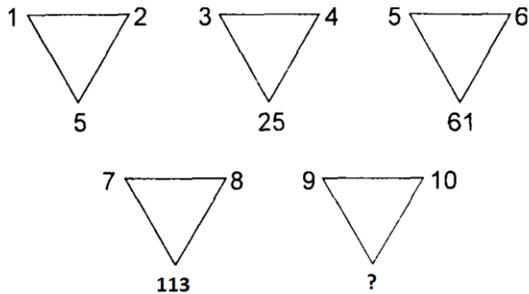E: Green and Blues have totally played 1000 games

Q50: (1 mark) If I fly from Mumbai to London on an eight hour flight and arrive at 3:30 pm, what time did I leave Mumbai given that Mumbai time zone is 5 ½ hours ahead of London?

A: 7:30 am   B: 11 am   C: 12 noon   D: 1 pm   E: 2 pm

SECTION 2

ALL QUESTIONS IN THIS SECTION ARE OF 2 MARKS

Q51: (2 marks) Which number completes the last diagram?
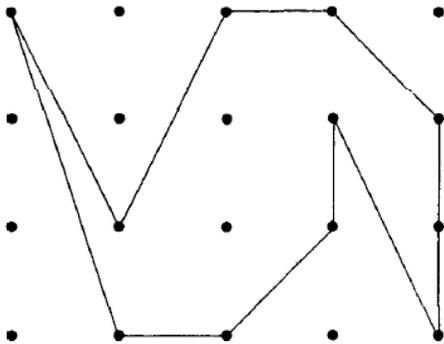

A: 141 B: 156 C:164 D: 181 E: 190

Q52: (2 marks) On a recent shopping trip, the amount spent by my daughter was the same as the amount spent by my wife divided by the amount spent by myself. My wife spent Rs. 600 and would have spent 15 times as much as myself if she had spent 25% more. How much did we all spend in total?

A: Rs. 896 B: Rs. 750 C: Rs. 662 D: Rs. 774 E: Rs. 800

Q53: (2 marks) The dots in this grid are one unit apart horizontally and vertically. Find the area of the outlined region?
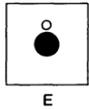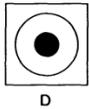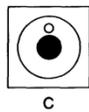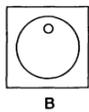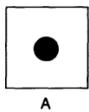

A: 6 B: 6.5 C: 7 D: 7.5 E: 8

Q54: (2 marks) Kareena begins with her game token on the square marked START and moves clockwise around the board. Each turn she moves one more square than the number of squares she moved on the previous turn. On her first turn, she moves one square; on her second turn, she moves two squares; on her third turn, she moves three squares; and so on. On which turn does Kareena first land back on START?

| A: 4 | B:5 | C: 6 | D: 7 | E: 8 |

Q55: (2 marks) Which is the missing square below?

| A:A | B:B | C: C | D:D | E: E |

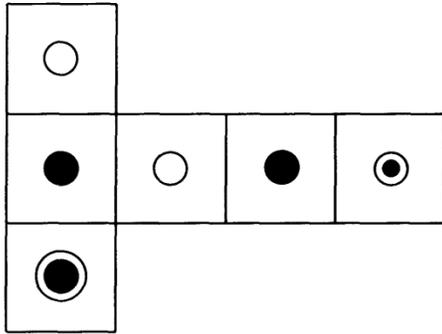**Q56:** (2 marks) What number comes next in the sequence?

    71   73   79   83   89   ?
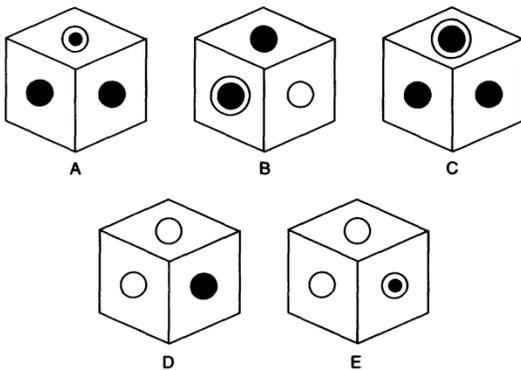
| A: 91 | B: 93 | C: 94 | D: 96 | E: 97 |

Q57: (2 marks) If 'MADRAS' is coded as '56', how can 'CALCUTTA' be coded?

| A: 8 | B: 38 | C: 76 | D: 81 | E: 96 |

Q58: (2 marks)

When the above is folded to form a cube, just **two** of the following can be produced. Which **two**?

A: <u>(B & D)</u>   B: (A &B)   C: (C & D)   D: (B & C)   E: (D & E)

Q59: (2 marks) If sign '–' means 'plus', sign '+' means 'minus', sign 'X' means 'divided by' and sign '÷ ' means 'multiplied by', then simplify:

$7 - 8 \text{ X } 5 \div 6 + 4$

A: 3   B: 12   <u>C: 12 3/5</u>   D: 48/5   E: 14

Q60: (2 marks)
Start with a full cup of black coffee (no milk) and drink one-third of it.
Now pour into the cup an amount of milk equal to the coffee you have just drunk, and stir well. Now drink a further half of the resultant mixture.
Now pour into the cup a further amount of milk equal to the mixture you have just drunk and stir well again. Now drink one-sixth of the resultant mixture.
Now pour into the cup a further amount of milk equal to the mixture you have just drunk, stir well, and finally, drink the whole cup of liquid.

How much milk have you drunk?

A: 1/4th cup   B: 1/2 cup   C: 3/4th cup   <u>D: 1 cup</u>   E: 1 1/4th cup

Q61: (2 marks) A batsman is out for 26 runs in the last match, which raises his batting average for the season from 15 to 16. How many runs should he have scored in this last match to raise

his average to 20?

A: 20   B: 30   C: 46   D: 56   <u>E: 70</u>

Q62: (2 marks) At a recent small town election for mayor, a total of 972 votes were cast for the four candidates, and the winner exceeded his opponents by 52, 78 and 102 votes, respectively. How many votes were cast for the winning candidate?

A: 185   B: 232   <u>C: 301</u>   D: 420   E: 450

Q63: (2 marks) Three coins are tossed in the air at the same time. What are the chances that at least two of the coins will fall tails up?

A: 12.5%   B: 25%   <u>C: 50%</u>   D: 75%   E: 100%

Q64: (2 marks) Five murder suspects are being questioned. In their five statements, only three of them tell the truth. Who is the murderer?
Arthur says: 'Derek is the murderer.'
Bill says: 'I am innocent.'
Charlie says: 'It wasn't Edward.'
Derek says: 'Arthur is lying.'
Edward says, 'Bill is telling the truth.'?

A:Arthur   B: Bill   C: Charlie   D: Derek   <u>E: Edward</u>

Q65: (2 marks) Each of the six letters below stands for one of the numbers from 1 to 9, and no letter stands for the same number as another letter. Using the four clues, can you deduce the number represented by the letter C ?

A	B	C
D	E	F

Clues
A is the largest number in the top row across. The value of E is 9. Each row across totals 12. The middle column down totals twice the value of either of the two outside columns.

A: 2   B: 3   <u>C: 4</u>   D: 5   E: 6

Q66: (2 marks) The first five batsmen - A, B, C, D and E - averaged 40 runs each. D scored 12. A was the highest scorer. B and D scored 28 between them. C and E scored 72 between them. C scored ten more than E. D scored four fewer than B. B, C and D scored 69 between them. How much did A score ?

<u>A: 100</u>   B: 110   C: 114   D: 118   E: 122

Q67: (2 marks) During a survey in a store selling clothing and cosmetics, on a Saturday afternoon, 5/16 of women questioned had bought just cosmetics, 5/8 had bought just clothing,
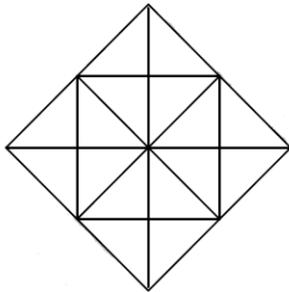
while 115 women had just browsed and bought nothing. None bought both cosmetics and clothing together. How many women had just bought cosmetics?

A: 1150   B: 230   C: 345   D: 575   E: Not possible to calculate

Q68: (2 marks) How many 3 feet x 1 foot x 1 foot sized bricks can fit into a 3 feet wide solid wall around a 30 feet x 30 feet garden. The wall is 15 feet high.
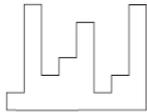
A: 90   B: 900   C: 1000   D: 1800   E: 18000

Q69: (2 marks) How many squares are there in the following figure?

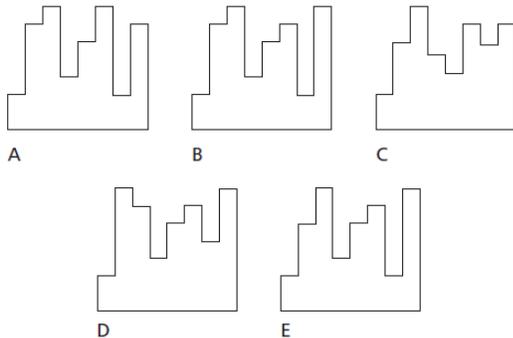A: 4   B: 6   C: 8   D: 10   E: 12

Q70: (2 marks)

Which of the following pieces, when fitted to the above piece, will form a perfect square?
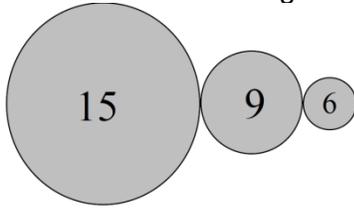

A: A   B:B   C:C   D:D   E: E

Q71: (2 marks) What number should replace the question mark?

3	6	3	9	4	?	6
7	4	2	5	4	8	1	7

A: 5   B: 6   C: 7   D: 8   E: 9

Q72: (2 marks) Three cog wheels are in contact with each other. The number of cogs which each wheel has is shown in the diagram below. How many revolutions must the largest wheel

make before all the cogs are returned to their original starting position?

A: 30   B: 60   C: 75   D: 80   E: 90

Q73: (2 marks) There are six people T, U, V, W, X and Y. Two of them are from England, one is from America, one is from Australia, one is from Libya and one is from India. T who is from Libya, is married to W. X is not from England. None of the females is from Australia or America or Libya. V who is from America is married to Y who is from India. Among the six people they are two married couples. What is the gender of W and to which country does he/she belong?

A: male from Australia   B: female from Australia   C: male from England
D: female from England   E: male from Australia

Q74: (2 marks) In a jar, there are 100 balls of ten different colours. There are ten balls of each colour (violet, red, blue, green, yellow, orange, red, black, white and silver). What is the least number of balls that Melanie needs to pick from the jar to be sure that she has selected at least 5 black balls?

A: 5   B: 10   C: 50   D: 75   E: 95

Q75: (2 marks) Sheila is hosting a party at her house. All guests are going to be seated in chairs around a large perfectly circular, at a distance of 3 meter from each of its adjacent chairs. All the guests arrive at a separate time and each guest takes a chair to the immediate left of the last guest who arrived. If Rani, who was the sixth guest to arrive, is sitting diametrically opposite to Sunita, who was the fourteenth guest to arrive, how many people were sitting at the round table?

A: 12   B: 16   C: 18   D: 20   E: 24