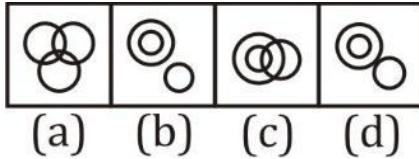Q1. Which one of the following diagrams best depicts the relationship among Boys, Students and Athletes?

(a) (b) (c) (d)

Directions (Q2–4): In each of the following, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

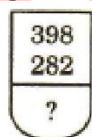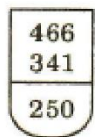Q2. 11, 5, 20, 12, ? , 26, 74, 54
(a) 5
(b) 20
(c) 38
(d) 26

Q3. Jammu & Kashmir, Uttar Pradesh, Madhya Pradesh, ?
(a) Maharashtra
(b) Assam
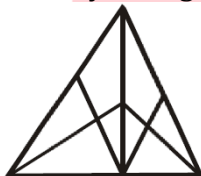(c) Rajasthan
(d) Nagaland

Q4. Z, ?, T, ?, N, ?, H, ?, B
(a) W, Q, K, E   (b) W, R, K, E
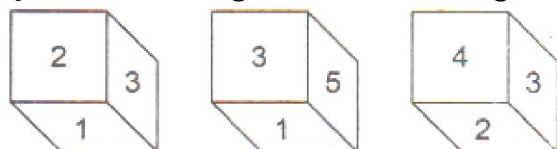(c) X, Q, K, E   (d) X, R, K, E

Q5. Find the missing number.

| 466 |
| 341 |
| 250 |

| 398 |
| 282 |
| ? |

(a) 232   (b) 268
(c) 298   (d) 350

Q6. How many triangles are there in the following figure?

(a) 17   (b)22
(c) 18   (d)15

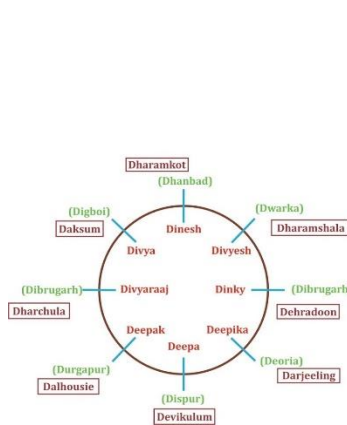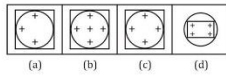Q7. In the below given dice which digit will be on the opposite surface to digit '3'?
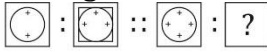

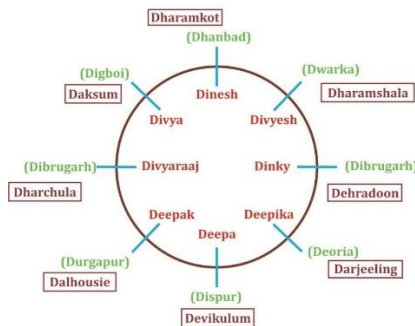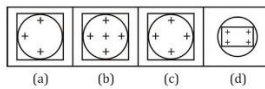(a) 1   (b) 6
(c) 4   (d) 5

SOURCE: SSC CGL T-I (50 Mocks Test Series 2018) Mock 6 (21-23)
Q8. Select the related figure from the given alternatives.
Question figures

Answer figures:

Q9. Namita walks 14 m towards West, then turns to her right and walks 14 m and then turns to her left and walks 10 m. Again, turning to her left she walks 14 m. What is the shortest distance (in m) between her starting point and the present position?
(a) 10
(b) 24
(c) 28
(d) 38

Q10. If a mirror is placed on the line LM, then which of the answer figures is the right image of the given question figure ?
Question Figure :
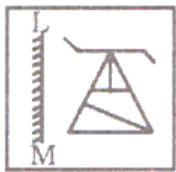
Answer Figure :

Q11. Few groups of alphabets are given which share a common feature except one. Choose the odd one.
(a) BEH
(b) CFI
(c) DGJ
(d) EHL

Q12. Introducing a man, a woman said, "He is the only son of my mother's mother". How is the woman related to this man?
(a) Mother
(b) Aunt (Mami)
(c) Sister
(d) Niece (Bhanji)

Q13. Choose the word which is least like the other words in the group.
(a) Day
(b) Date

(c) Calendar
(d) Month

Q14. What is the best sequence of the following given words?
1. Birth
2. College
3. Job
4. School
5. Salary
(a) 1, 3, 4, 5, 2
(b) 2, 3, 4, 5, 1
(c) 4, 5, 3, 1, 2
(d) 1, 4, 2, 3, 5

Q15. As 'College' is related to 'Student', in the same way 'Hospital' is related to:
(a) Doctor
(b) Nurse
(c) Medicine
(d) Patient

Q16. From the given alternatives, choose the mirror image of the following word:
DETERMINATION
(a) ИOITAИIMЯƎTƎD
(b) ИOITAИIMЯƎTƎD
(c) ИOITAИIMЯƎTƎD
(d) ИOITAИIMЯƎTƎD
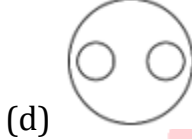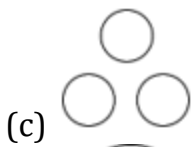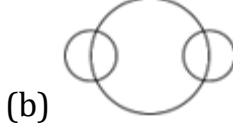
Q17. Complete the missing segment of the following figure, selecting the appropriate figure from the given alternatives:

(a)

(b)

(c)

(d)
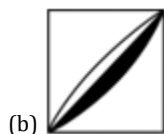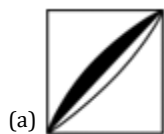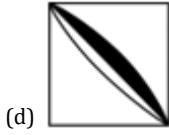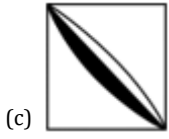
Q18. Identify the diagram that best represents the relationship among the given classes:

Job, Government Job, Private Job

(a)

(b)

(c)

(d)

Q19. Select the alternative in which the words share the same relationship as that shared by the given set of words.
Cat : Lion : Jaguar
(a) Shark : Dolphin : Bat
(b) Sport : Athlete : Javelin
(c) Monkey : Chimpanzee : Gorilla
(d) Reptile : Snake : Toad

Q20. If train is called bus, bus is called tractor, tractor is called car, car is called scooter, scooter is called bicycle, bicycle is called moped, what is used for ploughing field?
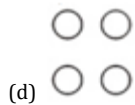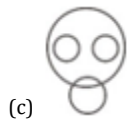(a) Bus
(b) Car
(c) Train
(d) Tractor

Q21. Identify the diagram that best represents the relationship among the given classes.
Football, Volleyball, Outdoor Games, Carrom.

(a)

(b)

(c)

(d)
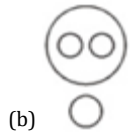
Q22.   Aarush's birthday is on Thursday 27th April. On what day of the week will be Mitul's Birthday in the same year if Mitul was born on 28th September?
(a) Monday
(b) Thursday
(c) Wednesday
(d) Tues

Q23.   The weights of 4 boxes are 20, 30, 40 and 60 kilograms. Which of the following cannot be the total weight, in kilograms, of any combination of these boxes, and in a combination a box can be used only once?
(a) 150
(b) 110
(c) 130
(d) 140

Q24.   If 9#3=6; 15#3=9; 60#4=32; then what is the value of 27#3=?
(a) 24
(b) 15
(c) 13
(d) 33

Q25.   In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.
        Statement 1 : No squares are rectangles.
Statement 2 : All rectangles are triangles.
Conclusion I : Some triangles are squares.
Conclusion II :Some triangles are rectangles.
(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both I and II follow
(d) Neither I nor II follows

Q26. 18,   19,   22,   27,   ?
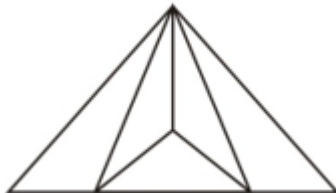(a) 33
(b) 34
(c) 36
(d) 32

Q27. In the following figure, the triangle represents teachers, the circle represents students and the rectangle represents actors. Which number represents teachers who are also students and actors ?
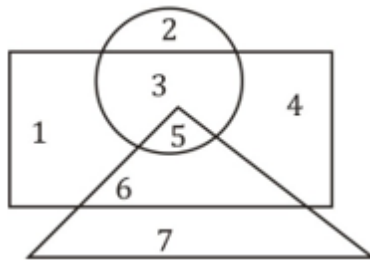
(a) 3
(b) 6
(c) 5
(d) 2

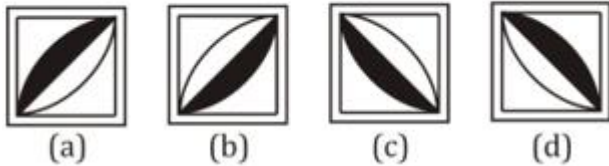Q28. Find the number of triangles in the given figure:

(a) 6
(b) 7

(c) 8
(d) 9

Q29. Which answer figure will complete the pattern in the question figure:
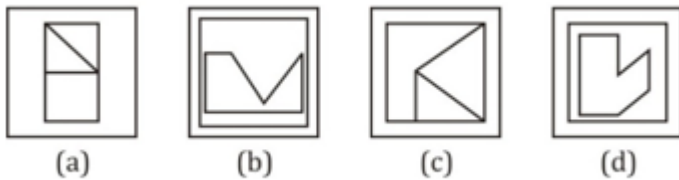Question Figure :

Answer Figures:

(a) a
(b) b
(c) c
(d) d

Q30. Select the answer figure in which the questions figure are hidden/embedded.
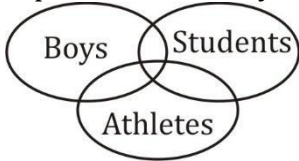Question Figures:

Answer Figures:

(a) a
(b) b
(c) c
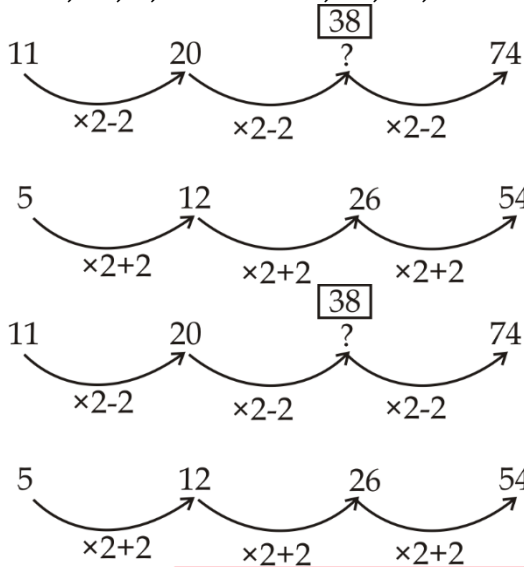(d) d

SOLUTIONS

S1. Ans.(a)
Sol. Some Boys can be Students as well as Athletes and vice-versa. Hence, diagrammatical representation may be as follow

S2. Ans.(c)
Sol. The given sequence is a combination of two series
I. 11, 20, ? , 74 and II. 5, 12, 26, 54

S3. Ans.(a)
Sol. states from top to bottom sequence.

S4. Ans.(a)
Sol. Z-(-6)→T -(-6)→N –(-6)→H-(-6)→B
Z-(-3)→ W-(-3)→T -(-3)→Q -(-3)→N -(-3)→K -(-3)→H-(-3)→ E
S5. Ans.(a)
Sol. We have: (466-341) x 2 = 250.
So, missing number = (398 – 282) x 2 = (116 x 2) = 232.
S6. Ans.(c)
S7. Ans.(b)
Sol. In the first and second dice, two surface are similar, hence 2 will be on the surface opposite to 5 and according to same rule form first and third dices, 4 will be opposite to 1 so, the remaining number 6 will be opposite to 3.

S8. Ans.(b)
Sol. From first figure to second figure both designs inside the circle move in clockwise direction and one design appears in the middle of the two designs.

S9. Ans.(b)
Sol. The movements of Namita have been shown in the adjacent figure
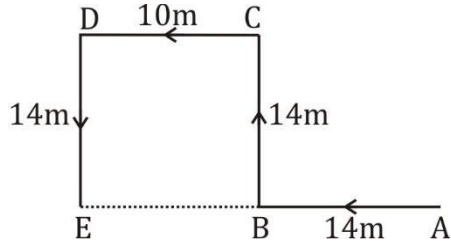
(A to B, B to C, C to D and D to E).
Clearly, Namita's distance from her starting position
AE = (AB + BE) = (AB + CD) = (14 + 10) m = 24 m
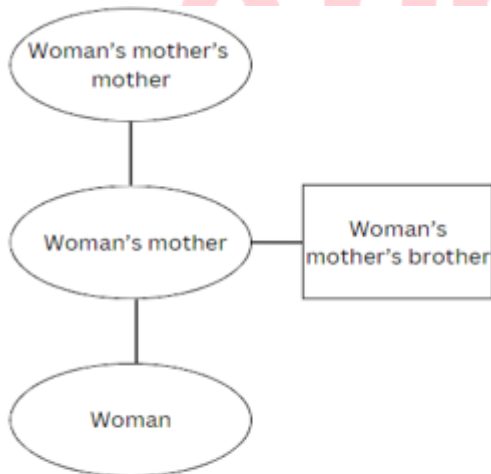
S10. Ans.(b)

S11. Ans(d)
Sol. In all other groups, there is a gap of two letters between first and second as well as between second and third letters.

S12. Ans(d)
Sol.

The woman's mother's mother's only son
would be the woman's uncle.
Hence, the woman is the Niece of the man.

S13. Ans(c)
Sol. Day, Date, Month are parts of the Calendar.
So, Calendar is the odd one out.

Hence "Calendar" is the answer.

S14. Ans(d)
Sol. The logic followed here is:
1.Birth → First stage of a human is Birth.
4. School → Next stage of birth is Schooling.
2. College → After complete the schooling, he will join the College.
3. Job → After College study, the person is got an Employment.
5. Salary → After got job, he gets Salary.
So, the correct sequence will be '1, 4, 2, 3, 5'.

S15. Ans(d)
Sol. College: Student → The relationship followed here is college provides education to students.
similarly
HOSPITAL : TREATMENT → The relationship followed here is hospital provides treatment to patients.
Hence, the correct answer is Patient.

S16. Ans(b)
Sol.

S17. Ans(b)
Sol.

S18. Ans(d)
Sol.

This venn diagram best represents the given classes: Job, Government job, Private job.

S19. Ans(c)
Sol. Cat, Lion and Jaguar belong to the same family of Animals. Similarly,
Option a → Shark and Dolphin belong to the same class and bat is of different class.
Option b → Javelin throw is a kind of sport and athlete is the one who plays the sport.
Option c → Monkey, Chimpanzee and Gorilla belong to the same class of Animals.
Option d → Snake and Toad are reptiles.

S20. Ans(b)
Sol. Tractor is used to plough the field and and tractor is called car therefore, car is used to plough the field.

S21. Ans.(b)
Sol.

S22. Ans.(b)
Sol.
27th April → Thursday (Aarush's Birthday)
Number of days after 27th April to 28th sept
$= 3 + 31 + 30 + 31 + 31 + 28$
$= 154$
∴ Number of odd days $= \frac{154}{7} = 0$ (odd days)
∴ Day on Mitul's birthday $= 28^{th}$ September
$=$ Thursday $+ 0$
$=$ Thursday

S23. Ans.(d)
Sol.
$20 + 30 + 40 + 60 = 150$
$30 + 40 + 60 = 130$
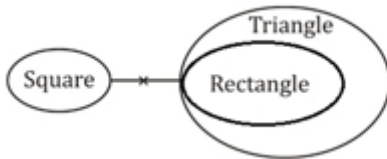$20 + 30 + 60 = 110$
140 is not possible

S24. Ans.(b)
Sol.

$$\frac{9+3}{2} = 6 \; ; \frac{15+3}{2} = 9 \; ; \frac{60+4}{2} = 32$$
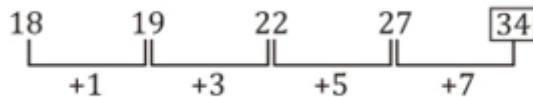$$\frac{27+3}{2} = 15$$

S25. Ans.(b)
Sol.

I. ×
II. √
Only conclusion II follows.
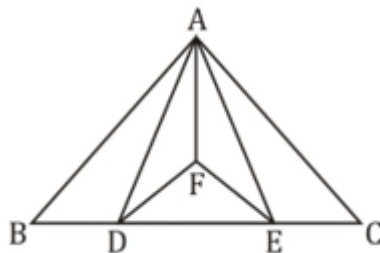
S26. Ans.(b)
Sol.

Difference is odd number.

S27. Ans.(c)
Sol.
The required region should be common in all the three figures. Such region is represented by '5'.
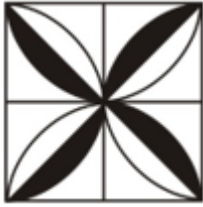
S28. Ans.(d)
Sol.

The triangles are: ΔABC ; ΔABD; ΔFAD; ΔFAE; ΔFDE; ΔAEC; ΔADE; ΔABE; ΔACD

S29. Ans.(b)
Sol.

S30. Ans.(a)
Sol.