



# Unlock 1.0 Study Plan Day 11 Q/A PDF



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1. Thermite reactions use ..... as reducing agent?
  - A. Iron Oxide
  - B. Aluminium powder
  - C. Silver chloride
  - D. Zinc powder
  
2. Dulong Petit law states that?
  - A. Gram-atomic heat capacity of an element is a constant.
  - B. Enthalpy of universe is increasing continuously
  - C. The sub atomic particle often violates the mass energy equation
  - D. Gravitational waves are major source to find origin of universe
  
3. Which one of them indicates the main objective of monetary policy in India ?
  - A. Growth with Stability
  - B. Reduce Poverty and Achieve Stability
  - C. Over all Monetary Stability
  - D. None of these
  
4. Which city is known as 'Handloom hub of India'?
  - A. Lucknow
  - B. Varanasi
  - C. Panipat
  - D. Surat
  
5. An aqueous solution of \_\_\_\_\_ salt will turn blue litmus to red.
  - A. Sodium Acetate
  - B. Ammonium Sulphate
  - C. Potassium Sulphate
  - D. None Of these
  
6. **Foot and mouth disease is mainly found in \_\_\_\_\_.**
  - A. Cat
  - B. Cattle
  - C. Poultry
  - D. Human
  
7. What does 'B' stand for in 'COBOL' programming language?
  - A. Batch
  - B. Backup
  - C. Business
  - D. Boot

8. The headquarters of World Archery Federation is located at \_\_\_\_\_.
    - A. Lausanne
    - B. Veinna
    - C. Paris
    - D. New York
  
  9. The Ministry of New and Renewable Energy adopted its present name in which year?
    - A. 1991
    - B. 1997
    - C. 2006
    - D. 2010
  
  10. Who was the British Prime Minister at the time of Quit India Movement?
    - A. Clement Attlee
    - B. Anthony Eden
    - C. Anthony Eden
    - D. Winston Churchill
  
  11. **Select the correctly spelt word.**
    - A. Itinary
    - B. Greivance
    - C. Sovereignty
    - D. Renaissance
- Given below are four jumbled sentences. Pick the option that gives their correct order.**
12. P: There is no love in this world so pure, devoted, selfless, strong and lasting than mother's love.  
Q: The privilege of being a mother is only bestowed to women.  
R: Mother is Godly figure for children.  
S: They look up to their mothers for everything.
  - A. QPSR
  - B. RQPS
  - C. QPRS
  - D. SPQR
- Select the most appropriate word to fill in the blank.**
13. Health should be our first priority and should never be \_\_\_\_\_.
  - A. neglected
  - B. discarded
  - C. declined
  - D. suspended



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**Select the most appropriate option to fill in the blank.**

14. The government has on prior \_\_\_\_\_ airlifted a vast number of citizens belonging to different class structures from all across the globe.

- A. point
- B. occasions
- C. celebration
- D. jigs

**Select the most appropriate option to fill in the blank.**

15. But he is bored of being a hero because there's nobody who can \_\_\_\_\_ his powers.

- A. trouble
- B. opposition
- C. problem
- D. challenge

**Select the passive form of the given sentence.**

16. The manager keeps the work pending.

- A. The work has been kept pending by the manager
- B. The work was kept pending by the manager.
- C. The work is kept pending by the manager.
- D. The work are being kept pending by the manager.

In the following question, the given sentence has four parts marked P, Q, R and S. Choose the part of sentence with the error and mark as your answer. If there is no error, mark 'No error (S)' as your answer.

17. Men who has risen (P)/ by their own exertions (Q)/ are always respected. (R)/ No error (S)

- A. P
- B. Q
- C. R
- D. S

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

18. More than one student was shortlisted for the secretary post.

- A. have been shortlisted
- B. were shortlisted
- C. are shortlisted
- D. No improvement

19. In Jammu and Kashmir a (a) few separatists are given (b) much too freedom (c) no error (d)

- A. In Jammu and Kashmir a
- B. Few separatists are given
- C. Much too freedom
- D. No error

20. Close the doors.

- A. Let the doors are closed
- B. The doors are to be closed
- C. Let the doors be closed
- D. Allow the doors to close

21. **The two given expressions on both the side of the '=' sign will have the same value if two numbers from either side or both side are interchanged. Select the correct numbers to be interchanged from the given options.**

$$3 + 5 \times 4 - 24 \div 3 = 7 \times 4 - 3 + 36 \div 6$$

- A. 5, 7
- B. 4, 7
- C. 6, 3
- D. 24, 36

22. **Select the number that can replace the question mark (?) in the following series.**

40, 37, 43, 34, 46, ?

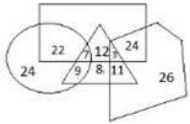
- A. 31
- B. 51
- C. 41
- D. 61

23. **In the given Venn diagram, the triangle represents students playing table tennis, the rectangle represents students playing badminton, the circle represents female students, and the pentagon represents students playing football. The numbers given in the diagram represent the number of persons in that particular category?**



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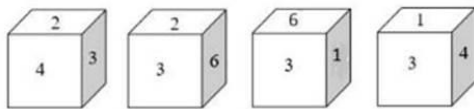
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How many female students play both table tennis and badminton?

- A. 22
- B. 9
- C. 7
- D. 18

24. Four positions of the same dice are shown. Select the number that will be on the face opposite to the one showing '3'.



- A. 5
- B. 6
- C. 2
- D. 4

25. Arrange the following in a logical sequence from small to big.

- 1) Crocodile
  - 2) Lizard
  - 3) Whale
  - 4) Housefly
  - 5) Monkey
- A. 3, 5, 4, 1, 2
  - B. 4, 5, 2, 1, 3
  - C. 4, 3, 2, 1, 5
  - D. 4, 2, 5, 1, 3

26. Select the option that is related to the third word in the same way as the second word is related to the first word.

Ministers : Council :: Sailors : ?

- A. Captain
- B. Sea
- C. Crew
- D. Ship




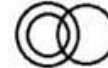
27. Four words have been given, out of which three are alike in some manner and one is different. Select the odd word.

- A. Hyderabad
- B. Gangtok
- C. Aurangabad

D. Chennai

28. Which of the following Venn diagrams best represents the relationship between the following classes?

Police Officers, Mothers, Females

- A. 
- B. 
- C. 
- D. 

29. Select the number that can replace the question mark (?) in the following series.

17, 20, 15, 22, 13, ?

- A. 2
- B. 4
- C. 24
- D. 22

30. In a certain code language, CORONAVIRUS is written as SURIVANOROC. How will PANDEMIC be written in the same code language?

- A. CILODNAP
- B. CIMEDKTP
- C. CIMEDNAP
- D. IHMEDNAP

31. If x is the remainder when  $3^{61284}$  is divided by 5 and y is the remainder when  $4^{96}$  is divided by 6, then what is the value of

$(2x - y)$ ?

- A. -2
- B. 2
- C. -4
- D. 4

32. The marked price of an article is Rs. 1500. If two successive discounts, each of x%, on the marked price is equal to a single discount of Rs. 587.40, then what will be the selling price of the article if a single discount of x% is given on the marked price?

- A. Rs. 1,025



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- B. Rs. 1,155
- C. Rs. 1,200
- D. Rs. 1,170

33. If a 10-digit number  $5432y1749x$  is divisible by 72, then what is the value of  $(5x - 4y)$ ?

- A. 10
- B. 14
- C. 9
- D. 15

34. There are three sections A, B and C of class 12<sup>th</sup>. If number of students in section A, B and C are 95, 209 and 171 respectively and average marks of section A, B and C in an exam are 83, 78 and 85 respectively. What is the average marks of Class 12<sup>th</sup>?

- A. 80.66
- B. 81.52
- C. 83.78
- D. 80.34

35. Rohit Sharma scored some runs in 9 continuous innings. He scored 100 runs in his 10<sup>th</sup> inning and this increased his average by 8 runs. What was the average of his runs at the end of 10<sup>th</sup> innings?

- A. 22
- B. 24
- C. 26
- D. 28

36. Amit started a dairy business by investing Rs. 70000. After that, he added Rs. 10000 every year in his investment. After 3 years his friend Prashant joined him with an amount of Rs. 100000. Thereafter, from this year Amit did not invest any additional amount. After 6 years they earned a total profit of Rs. 135000. Find Amit's share in the profit.

- A. 95000
- B. 90000
- C. 85000
- D. 65000

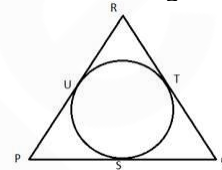
37. The angles A, B and C of a triangle are in arithmetic progression. Determine the values of A, B and C if  $\sin(2A + B) = \sin(C - A) = -\sin(B - 2C) = 1/2$

- A.  $A = 30^\circ, B = 60^\circ, C = 90^\circ$
- B.  $A = 60^\circ, B = 90^\circ, C = 30^\circ$
- C.  $A = 75^\circ, B = 60^\circ, C = 45^\circ$
- D.  $A = 45^\circ, B = 60^\circ, C = 75^\circ$

38. If  $2\sin\theta + 15\cos^2\theta = 7, 0^\circ < \theta < 90^\circ$  then  $\tan\theta + \cos\theta + \sec\theta = ?$

- A.  $3\frac{4}{5}$
- B.  $3\frac{3}{5}$
- C. 3
- D. 4

39. In the given figure, a circle inscribed in  $\Delta PQR$  touches its sides PQ, QR and RP at points S, T and U, respectively. If  $PQ = 15$  cm,  $QR = 10$  cm and  $RP = 12$  cm, then find the lengths of PS, QT and RU?



- A.  $PS = 8.5$  cm,  $QT = 3.5$  cm and  $RU = 6.5$  cm
- B.  $PS = 8.5$  cm,  $QT = 6.5$  cm and  $RU = 6.5$  cm
- C.  $PS = 6.5$  cm,  $QT = 8.5$  cm and  $RU = 3.5$  cm
- D.  $PS = 3.5$  cm,  $QT = 6.5$  cm and  $RU = 8.5$  cm

40. If  $a + b + c = 7$  and  $ab + bc + ca = -6$ , then the value of  $a^3 + b^3 + c^3 - 3abc$  is:

- A. 463
- B. 479
- C. 472
- D. 469



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###ANSWERS###

1. Ans. B.

Thermite reactions use **Aluminium powder** as a reducing agent.

- The reduction of a metal oxide to form metal by using aluminium powder as a reducing agent is called a thermite reaction.
- Thermite reactions are **exothermic** reactions.
- Production of Iron by reaction of iron oxide and aluminium powder is best ex. Of thermite reaction.

2. Ans. A.

**Dulong Petit law states that gram-atomic heat capacity of an element is a constant.**

- In mathematical form it is stated as-  **$C = 3R$** , where  $c$ =heat capacity and  $R$  is gas constant.
- Gram-atomic heat capacity is the amount of heat required to raise the temperature of one mole of an element by unit degree.
- The specific heat of copper and lead is 0.093 and .031 cal/gm K, but as per Dulong-Petit law **their gram atomic heat capacity will be the same.**

3. Ans. A.

- The main objectives of monetary policy are to achieve Stability and Growth.
- This stability & Growth inform of price stability, financial stability and adequate availability of credit for growth.
- The monetary policy of India refers to that policy which is concerned with the measures taken to regulate the volume of credit created by the banks.

4. Ans. C.

- **Panipat**, Haryana is known as the **handloom Hub of India**.
- The city is also known as the City of Handlooms and City of weavers.
- Panipat is widely known for three battles – Battle of Panipat (1526), Battle of Panipat (1556), and Battle of Panipat (1761).
- Historically, this city is known as **Pandavaprastha**.

5. Ans. B.

\* Ammonium Sulphate salt aqueous solution will turn blue litmus to red, because it is acidic in nature.

\* Blue litmus paper turns red under acidic conditions .

\* Red litmus paper turns blue under basic (i.e. alkaline) conditions.

6. Ans. B.

**Foot and mouth disease are found in Cattle.**

• It is a severe, highly contagious viral disease of livestock.

• FMD is a viral disease that spreads rapidly between animals. Pigs are regarded as 'amplifying hosts' because they can excrete very large quantities of the virus in their exhaled breath.

7. Ans. C.

• In **COBOL** programming language '**B**' stands for '**Business**' and **COBOL** is an acronym for **Common Business Oriented Language**.

• **COBOL** is a **high-level programming language** for **business** applications. It was developed in **1959** and is still in use in many financial and business applications today.

8. Ans. A.

• **The headquarters of World Archery Federation is located at Lausanne.**

• The World Archery Federation is the governing body of the sport of archery. It was founded in 1931.

• It is composed of 156 national federations and other archery associations, and is recognised by the International Olympic Committee.

• Presently it's president is **Ugur Erdener and Mario Sxarzella** is it's Vice President.

9. Ans. C.

• **The Ministry of New and Renewable Energy adopted its present name in 2006.**

• Its headquarters are located at New Delhi.

• The Mission statement of Ministry includes-

- a) Energy Security
- b) Increase in the share of clean power
- c) Energy Availability and Access



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- d) Energy Affordability and Energy Equity
- Its major initiatives are-
- a) Jawaharlal Nehru National Solar Mission
  - b) National Biogas and Manure Management Programme
  - c) Solar Lantern Programme
  - d) Remote Village Lighting Programme
10. Ans. D.

\* **The "Quit India Movement" was launched on 8 August 1942, by the All India Congress Committee.**

\* It was led by Mahatma Gandhi.

\* He demanded to end the British rule in India.

\* **Sir Winston Leonard Spencer-Churchill** was the British Prime Minister during the Quit India Movement.

\* He was also known as Sir Winston Churchill.

11. Ans. C.

Option C has the correctly spelt word "Sovereignty" which means the quality of having supreme power or authority.

Let's see the spelling and meaning of other words:

Itinerary : a plan of a journey

Grievance : a complaint against an injustice

Renaissance : a revival of or renewed interest in something

12. Ans. C.

The introductory sentence could be any of these 3 sentences - P, Q and R. Hence, option D is eliminated. Now we will check our answer among the remaining options. The use of the pronoun "they" in sentence S is for the "children" mentioned in R. This makes RS a pair. RS as a pair comes only in option C. Hence, it is the correct answer.

13. Ans. A.

Let's first learn the meaning of the words:

Neglected = suffering a lack of proper care.

Discarded = get rid of (someone or something) as no longer useful or desirable.

Declined = diminish in strength or quality; deteriorate; politely refuse (an invitation or offer).

Suspended = temporarily prevent from continuing or being in force or effect.

The sentence emphasized the need of good health and how one should take proper care of it. Hence, the word "neglected" given in option A is our correct answer.

14. Ans. B.

The given sentence talks about the different times when citizens were airlifted from all across the globe and brought back to their homeland.

Occasions = a particular event, or the time at which it takes place.

Jigs = a lively dance with leaping movements.

Hence, option B, i.e. occasions is the correct fit for the blank.

15. Ans. D.

The given sentence needs a verb in the blank. Among the options, only two options, i.e. option D and option A have the verb.

Let's understand their meanings:

Trouble: cause profound worry; make to feel uncomfortable or anxious

Challenge: question the truth or validity of; take exception to

The sentence talks about how a person is bored of being a hero as there is no one to test his powers. Hence, option D is the correct answer.

16. Ans. C.

The given sentence is in active voice. It is simple form of present tense. The structures for active/passive voices are:

Active: Subject + verb ("s" or "es" with singular noun) + object...

Passive: Object + Is/are/am + verb (IIIrd form) + by + subject...

So, based on the above structures, we can convert the given sentence into passive voice:

The work is kept pending by the manager.

Hence, option C is the correct answer.

17. Ans. A.

'Men' is a plural noun; hence, the verb must also be plural to maintain subject-verb agreement. Therefore, 'has' must be replaced with 'have' to form a grammatically correct sentence.

Hence, option A is the correct answer.

18. Ans. D.



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The underline segment is correct. The phrase more than one can either be singular or plural, depending on how it is used. When it modifies a singular noun, it goes with singular verb(as in the given sentence). But when it is followed by of and plural noun, it takes a plural verb. Example- more than one of the people are going. Hence option D is correct answer.

19. Ans. C.

the error is in the part "c". Use "too much" in place of "much too".

Eg. too much + noun  
Much too + adjective.

20. Ans. C.

Others suffer from verb errors which arise out of a mismatch with the given sentence.

21. Ans. A.

**Check option A-**

Given expression is-

$$3 + 5 \times 4 - 24 \div 3 = 7 \times 4 - 3 + 36 \div 6$$

After interchanging-

$$3 + 7 \times 4 - 24 \div 3 = 5 \times 4 - 3 + 36 \div 6$$

Apply BODMAS,

$$3 + 28 - 8 = 20 - 3 + 6$$

$$\text{Or, } 3 + 28 - 8 = 20 - 3 + 6$$

$$\text{Or, } 3+20=23$$

$$\text{So, } 23=23$$

As we got the correct answer, so no need to check more options.

Hence, option A is the correct answer.

22. Ans. A.

Logic is:

$$40-3=37$$

$$37+6=43$$

$$43-9=34$$

$$34+12=46$$

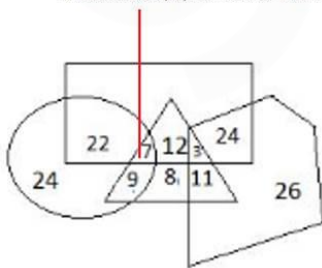
$$46-15=31$$

Hence, option A is the correct answer.

23. Ans. C.

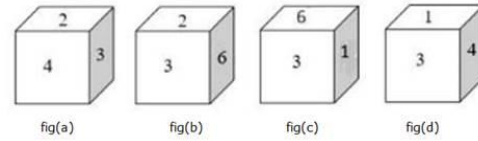
Here 7 represents female students play both table tennis and badminton.

female students play both table tennis and badminton



Hence, option C is the correct answer.

24. Ans. A.



3 is common face in fig(b) and fig(d).

so,

4,1,6,2 will be the consecutive side face of 3.

So, 5 will be opposite to 3.

Hence, option A is the correct answer.

25. Ans. D.

Correct order is-

4) Housefly

2) Lizard

5) Monkey

1) Crocodile

3) Whale

Correct order is- 4, 2, 5, 1, 3

Hence, option D is the correct answer.

26. Ans. C.

As, council consists of ministers.

Similarly, crew consists of sailors.

Hence, option C is the correct answer.

27. Ans. C.

Except Aurangabad, all are the capital of different Indian states.

Hyderabad is the capital of Telangana.

Chennai is the capital of Tamil Nadu.

Gangtok is the capital of Sikkim.

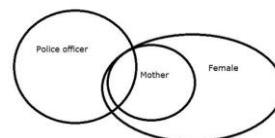
Aurangabad district is in Maharashtra.

Hence, option C is the correct answer.

28. Ans. D.

All mothers are female and some police officer are female and mother.

Hence, the diagram is



Hence, option D is the correct answer.

29. Ans. C.

Logic is-

$$17+3=20$$

$$20-5=15$$

$$15+7=22$$

$$22-9=13$$

$$13+11=24$$

Hence, option C is the correct answer.

30. Ans. C.

Logic- write letters in reverse order.





As,  
CORONAVIRUS = SURIVANOROC  
Similarly,  
PANDEMIC = CIMEDNAP  
Hence, option C is the correct answer.

31. Ans. A.

$$x = \frac{\text{unit digit no. of } 3^{61284}}{5} = \frac{1}{5} = 1(\text{remainder})$$

$$y = \frac{4^{96}}{6} = 4 \Rightarrow \frac{4^n}{6} = 4(\text{always})$$

Required,  $2x - y = 2 - 4 = -2$

32. Ans. D.

Net discount = 587.40

$$= \frac{1500 - 587.40}{1500} \times 100$$

Net % discount of M.P.

$$= \frac{912.60}{1500} \times 100 = 60.84\% \text{ of M.P.}$$

Net % discount =  $100 - 60.84 = 39.16\%$

$$x + x - \frac{x^2}{100} = 39.16$$

$$2x - \frac{x^2}{100} = 39.16$$

If  $x = 22$  then  $2x - \frac{x^2}{100} = 39.16$

Required -

$$1500 \times \frac{(100 - x)}{100} = 1500 \times \frac{78}{100} = 1170$$

33. Ans. B.

$$5432y1749x, 72 = 8 \times 9$$

The number should be divisible by 8 and 9.

Divisibility by 8 - Last three digits should be divisible by 8.

Divisibility by 9 - Sum of all digit should be divisible by 9.

We take  $x = 6$

$$\frac{5+4+3+2+y+1+7+4+9+6}{9} = \frac{41+y}{9}$$

We take  $y = 4$  then it will be divisible by 9.

Required

$$(5x - 4y) = 5 \times 6 - 4 \times 4 = 30 - 16 = 14$$

34. Ans. B.

Given, number of students in section A, B and C are 95, 209 and 171 respectively and average marks of section A, B and C in an exam are 83, 78 and 85 respectively

$$\frac{\text{sum of observations}}{\text{Total number of observations}}$$

Average =  $\frac{\text{Total number of observations}}{\text{Total number of observations}}$

$$\Rightarrow \text{Sum of observations} = \text{Average} \times \text{Total number of observations}$$

Sum of marks of all students of section A of class 12<sup>th</sup> =  $95 \times 83 = 7885$

Sum of marks of all students of section B of class 12<sup>th</sup> =  $209 \times 78 = 16302$

Sum of marks of all students of section C of class 12<sup>th</sup> =  $171 \times 85 = 14535$

Total marks scored by class 12<sup>th</sup> =  $7885 + 16302 + 14535 = 38722$

Total number of students =  $95 + 209 + 171 = 475$

$$\frac{\text{sum of observations}}{\text{Total number of observations}}$$

Average =  $\frac{\text{Total number of observations}}{\text{Total number of observations}}$

$$\frac{38722}{475} = 81.52$$

So, Required average = 81.52

35. Ans. D.

Let average of 9 innings =  $x$

Total runs =  $9x$

Now he scored 100 runs in his 10<sup>th</sup> inning and this increased his average by 8 runs

Total runs after 10<sup>th</sup> inning =  $9x + 100$

New average =  $x + 8$

A.T.Q.

$$\frac{9x + 100}{10} = x + 8$$

$$\Rightarrow 9x + 100 = 10x + 80$$

$$\Rightarrow x = 20$$

Average after 10<sup>th</sup> inning =  $20 + 8 = 28$

36. Ans. C.

Ratio of investment -

Amit  $\rightarrow 70000 \times 1 + 80000 \times 1 + 90000 \times 4 = 510000$

Prashant  $\rightarrow 100000 \times 3 = 300000$

Amit : Prashant =  $17 : 10$

Let Amit's profit =  $17k$

Prashant Profit =  $10k$

$27k = 135000$

$k = 5000$

Required Amit's profit =  $17k = 85000$ .

37. Ans. D.

A, B and C are in AP (Given)

$$\therefore 2B = A + C$$



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$A + B + C = 180^\circ$  (angle sum property of a triangle)

or,  $B + 2B = 180^\circ$

$\therefore B = 60^\circ$

$\sin(2A+B) = \sin(C-A) = -\sin(B-2C) = 1/2$  (Given) ..... (i)

From equation (i), we have

$\sin(2A+B) = \sin(2A+60^\circ) = 1/2$

or,  $2A + 60^\circ = 30^\circ, 150^\circ$

But angle A cannot be negative.

$\therefore 2A + 60^\circ = 150^\circ$  [As  $\sin x = \sin(180^\circ - x)$ ]

$\therefore A = 45^\circ$

Again, from equation (i),

$\sin(C - A) = 1/2$

or,  $C - A = 30^\circ$

or,  $C - 45^\circ = 30^\circ$

$\therefore C = 75^\circ$

Hence, we have **A = 45°, B = 60°, C = 75°.**

38. Ans. B.

We know  $1 - \sin^2\theta = \cos^2\theta$

$2\sin\theta + 15\cos^2\theta = 7$

$\Rightarrow 2\sin\theta + 15 - 15\sin^2\theta = 7$

$15\sin^2\theta - 2\sin\theta - 8 = 0$

$15\sin^2\theta - 12\sin\theta + 10\sin\theta - 8 = 0$

$(3\sin\theta + 2)(5\sin\theta - 4) = 0$

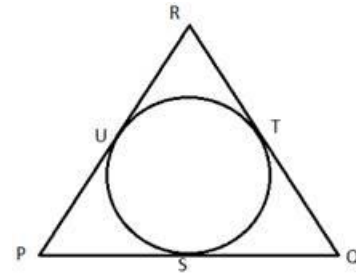
$\sin\theta = 4/5$

Hence

**Base**  $= \sqrt{H^2 - P^2} = \sqrt{5^2 - 4^2} = 3$

Hence  $\tan\theta + \cos\theta + \sec\theta = 4/3 + 3/5 + 5/3 = (20+9+25)/15 = 18/5 = 3(3/5)$

39. Ans. B.



Let  $PS = x$ ,  $SQ = y$  and  $RT = z$

Since  $RU = RT$ ,  $PU = PS$ ,  $QT = QS$

A.T.Q.

$2[x + y + z] = 15 + 12 + 10$

$\Rightarrow x + y + z = 18.5$

$\Rightarrow x + y = PQ = 15$  cm

then  $z = 3.5$

$\Rightarrow y + z = QR = 10$  cm

Then  $x = 8.5 = PS$

Then  $y = QT = 6.5$  cm

40. Ans. D.

Given,  $a + b + c = 7$  and  $ab + bc + ca = -6$

We know that  $(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca)$

$\Rightarrow 49 = a^2 + b^2 + c^2 + 2(-6)$

$\Rightarrow a^2 + b^2 + c^2 = 49 + 12 = 61$

We also know that,

$a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ca)$

$\Rightarrow a^3 + b^3 + c^3 - 3abc = (7)(61 + 6) = 7 \times 67 = 469$



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