NPAT Mock Paper: Answers and Solutions

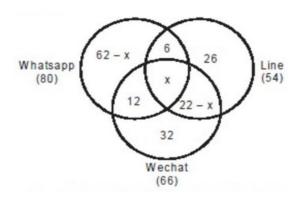
1. Solution:

Correct Answer: b

2. Solution:

Correct Answer: d

Let the number of students who use all the three applications be $\,$. Now, the given information can be depicted as shown below. $_{_{\it X}}$

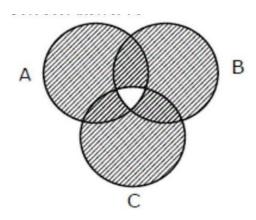


Hence, the number of students in the class = $10 \times 16 = 160$. $0 \times 16 = 160 \times 160$

Correct Answer: d

 $A = \{x: x \in (-2, 2)\}B = \{x: x \in (-\infty, -1] \cup [5, \infty)\}A \cap B = \{x: x \in (-2, -1]\}A \cup B = \{x: x \in (-\infty, 2) \cup [-\infty, -1]\}A \cup B = \{x: x \in (-\infty, 2) \cup [-\infty, -1]\}A \cup B = \{x: x \in (-\infty, 2) \cup [-\infty, -1]\}A \cup B = \{x: x \in (-\infty, 2) \cup [-\infty, -1]\}A \cup B = \{x: x \in (-\infty, 2) \cup [-\infty, -1]\}A \cup B = \{x: x \in (-\infty, -1]\}A \cup B = \{x: x \in (-\infty, 2) \cup [-\infty, -1]\}A \cup B = \{x: x \in (-\infty, -1]\}A \cup B = \{$

Correct Answer: c



Shaded region represents

So, $\{A - B \cup (B - C) \cup (C - \{A\}\}' - r \text{ sopte} \text{ (see pit $C\}}) \cup (C - A)\}$

$\frac{A}{5}$. Solution:

Correct Answer: c

$$((72 \div 4) \div 9) \times 6 + 34 - 17$$
 $(18 \div 9) \times 6 + 34 - 17$ 29 1
 $78 \div 39 + (96 \div 16) \times 19 =$ 2+114 = 116 = 4

6. Solution:

Correct Answer: d

Correct Answer: c

8. Solution:

Correct Answer: b

```
\sqrt{0.289 \times 0.064 \times 2.116 \times 1.7424}

0.0256 \times 0.0529 \times 0.036

0.0256 \times 0.0529 \times 0.036

17 \times 8 \times 46 \times 132

= 16 \times 23 \times 6 \times 10 = 37.4
```

9. Solution:

Correct Answer: c

$$\frac{1 - \frac{13}{13}}{\frac{1 - \frac{13}{13}}{(a-b)^2 - \frac{(a+b)(a-b)}{(a+b)(a-b)}}} = \frac{\frac{8}{13}}{\frac{1 - \frac{13}{13}}{13}} - \frac{1 + \frac{8}{13}}{1 + \frac{13}{13}} - \frac{1 + \frac{8}{13}}{1 - \frac{13}{13}} - \frac{1 + \frac{13}{13}}{1 - \frac{13}{13}}$$

$$\frac{\left(\left(\right) \left(\right) \left(\right) \left(\right) \right)}{\frac{(a-b)^2 - (a+b)^2}{(a+b)(a-b)}} = \frac{-4ab}{(a+b)(a-b)}$$

Correct Answer: c

Correct Answer: d

(3-2) (3-2)×(23+32) (6+36-26-6) 1

is negative but greater than -1 thus it too is ruled out.

Hence, the closest option will be (D) i.e. $\sqrt{}$.

12. Solution: -(3+1)

Correct Answer: c

Number of females in the state

Number of married males in the state = $\frac{1}{2}$, $\frac{1}{500}$, $\frac{1}{$

= 80000 of married females in the state

... Number of unmarried females in the state 80,000

٠.

= 90 000 - 80 000 = 10 000 he state

• _____

13.5000×100=4% **13.50lution:**

Correct Answer: a

Let the C.P. of article A and that of B be 20 x and 25 x respectively. Therefore, the selling price of article will be 28x.

∴ Sellingprice of article $-7 \times 28x = 24x$

Hence, the loss percentage on article B

$$= {25x - 24x \atop 25x} \times 100 = 4\%$$

Correct Answer: c

Given that the sum of the three numbers in AP is 30 and their product is 910.

or

 \Rightarrow One of the numbers is 10 and thus the other two numbers will be 7 and 13 for the product to be 910.

Hence, largest of them will be 13.

15. Solution:

Correct Answer: a

As the ratio of sum of terms of three different AP's is given as

i.e,
$$\frac{n}{a^2} + \frac{n}{2a^2} +$$

On placing

i.e,
$$n=19$$

 $a+9d:a+9d:a+9d:20:41:102$

16. Solution:

Correct Answer: b

$$r^{n-1}ar^{4} = 8(ar) \Rightarrow r^{3} = 8 \Rightarrow r = 2a + ar^{2} + ar^{5} = 11 \text{ (1 + } r^{2} + r^{5} \text{)}_{11}$$
 $r = 2$
 $\therefore t = ar^{6} = 326$
 $r = 2$

17. Solution

Correct Answer: c

The roots of are and .
$$x + 50x + 400 = 0$$
 α β
$$\therefore \alpha + \beta = -50$$

The new equation has roots and

Sum of roots =
$$3(\alpha+\beta)=3\times (\frac{1}{3})=3$$

Product of roots =
$$9\alpha\beta$$
 = 9×400 = 3600

Hence, the new equation is

$$x + 150x + 3600 = 0$$

18. Solution:

Correct Answer: b

The quadratic equation

$$f(x)=x2-6ax+2-2a+9a2=0$$

will have real roots if

19. Solution:

Correct Answer: c

a Answer key/Solution

Let Ram's present age be 6 x years and that of Rakesh be 11x years.

Four years ago,

$$6x-4$$
 1
= 2 \Rightarrow 12 $x-8=11x-4$ \Rightarrow $x=8-4=4$
Rakesh's age after five years

years.

$$=11\times4+5=49$$

20. Solution:

Correct Answer: a

Q. Answer key/Solution

Let the radius of the cone and cylinder be x cm and y cm respectively. Then, height of the cone and cylinder will be y cm and x cm respectively.

Curved surface area of a cone: Curved surface area of a

cylinder

 \overrightarrow{H} ence, tequified \overrightarrow{rat} ió = \overrightarrow{z}_x : $(y \neq 8 : 4 = 4 : 3) : y = 25:9 \Rightarrow x:y = 4:3$

21. Solution:

Correct Answer: d

We know that if each of given data is multiplied by any number then variance of new data will be k2 times of variance of original data. Therefore, k

New variance

22. Solution: $^{=}_{:}^{2} \times v = 4v$

Correct Answer: a

Variance 1 20 2 1 20 2 $= 20\sum_{r=1}^{r-1} r - 20\sum_{r=1}^{r-1} r$

Correct Answer: c

Since, and A are mutually exclusive events such that

$$A^- \cap B$$

 $A \cup B = (A^- \cap B) \cup A$
 $\Rightarrow P(A \cup B) = P(A^- \cap B) + P(A) \{ \text{ Since, } P(A) = 1 - P(A^-) = 1 - 1/3 = 2/3 \}$
 $\Rightarrow 5/7 = P(A^- \cap B) + 2/3 \Rightarrow P(A^- \cap B) = 5/7 - 2/3 = 1/21$
Hence, $P(A^- \cap B) = 1/21$.

24. Solution:

Correct Answer: a

On arranging in ascending order, we get

n=10 (even number)

Value of 102 th term + Value
$$of_{2}^{\hat{n}0}$$
 +1 th term

. Median = 2 ()

= Value of 5th term + Value of 6 70+72+m

2 = 2 = 71

25. Solution:

Correct Answer: b

χi	fi	xiii
19	8	152

25	10	250
31	13	403
37	7	259
43	6	258
49	5	245
	∑ <i>f</i> ≠ 4 9	∑ <i>xf</i> :=1567

Mean
$$\frac{\sum xfii}{\sum fi} = \frac{1567}{49} = 32$$

Correct Answer:a

By arranging the given observation is ascending order.

: Median =
$$\frac{10}{(n+1)th}$$
 term = $\frac{10}{2}$ term
: Median = $\frac{2}{2}$ = $\frac{th}{2}$

By substituting given values and the arranging it in ascending order.

 $81, 41, 57, 64, 72, 87, 89, 92, 94 \Rightarrow 41, 57, 64, 72, 81, 87, 89, 92, 94$

...Change in
$$\mathcal{B}^{th}$$
 dedian = $8164 = 17$

Correct Answer: a

Q. Answer key/Solution

$$= 3^{\text{Median}} \qquad \text{Median -8}$$

$$\Rightarrow 28 = 3^{\text{Median}} - \cancel{\text{Median}} 28 = 3$$

$$= 363 = 12$$

$$\Rightarrow 36 = 3 \qquad \Rightarrow$$

28. Solution:

Correct Answer: a

Let the amount kept at interest be Rs. P. Then,

$$SI = \begin{cases} P \times 8 \times 3 & 24 \\ 100 & = P \\ P & \#(i) \\ 0 & = S \end{cases}$$
 (ii)
$$SI = \begin{cases} 100 & \text{(iii)} \\ 8 & \text{(iii)} \end{cases} \text{ (iii)}$$

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$$SI = \begin{cases} 100 & \text{(iii)} \\ 10 & \text{(iii)} \end{cases} \text{ (iii)}$$

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29. Solution:

 $\Rightarrow P = 90 \times 100 =$

Correct Answer: b

Let the marked price of the watch be .

Cost price for the retailer

X

Selling price of the retailer = $x \times 0.8 \times 0.8 = 0.64x$

Hence, required percentage 0. $64x \times 1.5 = 0.96x$

less.

$$x - 0.96x$$

 $x \times 100 = 4\%$

Correct Answer: a

Q. Answer key/Solution

A does the work in — =18 days and B does the same work 63<u>.</u>5 in — = 30 days.

Thus 5 we can assume the total work to be 90 units such that work done by A and B alone in 1 day is 5 units and 3 units respectively.

Hence, required time —— and required amount = 5+8s. 67.5.

= $(5+3) \times (3.5 + 2.5) =$ 31. Solution:

Correct Answer: d

The given series increases as

12th term of the series = 1+(+2,+4,+6,+8+10+

12+14+16+18+20+22)=133.

32. Solution:

Correct Answer: a

$$g(x) = 3$$
Hence,
$$f(x) = \begin{cases} 8x \overset{1}{4} & 0 \\ f(x) = (8x \overset{1}{4}) & g(x) = f(g(x)) = 8 \end{cases}$$

$$\begin{cases} 8x \overset{1}{4} & \frac{4}{3} & \frac{4}{3} \\ g(x) = f(g(x)) = 8 \end{cases}$$

$$\begin{cases} 8x \overset{1}{4} & \frac{4}{3} & \frac{4}{3} \\ g(x) = f(g(x)) = 8 \end{cases}$$

$$\begin{cases} 8x \overset{1}{4} & \frac{4}{3} & \frac{4}{3} \\ g(x) = \frac{1}{3} & \frac{1}{3} & \frac{4}{3} \end{cases}$$

$$\begin{cases} 8x \overset{1}{4} & \frac{1}{3} & \frac{4}{3} & \frac{1}{3} & \frac{4}{3} \\ \frac{1}{3} & \frac{1}{3} & \frac{1}{3} & \frac{1}{3} & \frac{1}{3} & \frac{1}{3} \\ \frac{1}{3} & \frac{1}{3} &$$

Correct Answer: b

First find the composition function f og

$$g)(x) = f(23x-5+7) \qquad (2 \ 3 \ x-5+7-7)3 \qquad (2 \ 3 \ x-5)3 \qquad 8(x-5)$$

$$(f \qquad = \qquad +5 = \qquad +5 = \qquad 2 +5 = 4x-15$$
The inverse of is given by;
$$(f \circ g) = (f \circ g) =$$

Correct Answer: b

Q. Answer key/Solution

35. Solution:

Correct Answer:b

Q. Answer key/Solution

Let the cost of an apple, a banana and a guava be ₹a, ₹b and ₹g respectively. According to given question,

$$3664$$
 464

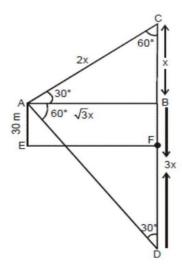
$$3a+3b+6g=78$$

Adding (i) and (iii), we get
$$a+b+2g=26$$

4a+5b+9 € = 112. Therefore, € 5st of 5 bananas, 4 apples and 9 guavas is ₹112.

36. Solution:

Correct Answer: a



In the figure given above EF is the water level.

Now, if in right triangle ABC , angle , angle and angle then ratio of the sides

A=30 B=90 C=60

AB: BC: Simplarly, it will be applied in

Since: 2F = FD $\triangle ABD$

and thus the required height

 $\Rightarrow BF = x = 30 m$ = 2x=60 m

37. Solution:

Correct Answer: d

 $sin2\theta + cos2\theta + sin2\theta = 3sin\theta cos\theta \Rightarrow sin2\theta + cos2\theta - 2sin\theta cos\theta = sin\theta cos\theta - sin2\theta \Rightarrow (cos\theta - sin\theta)2 - sin\theta cos\theta - sin\theta = 0 \text{ or } cos\theta - sin\theta = 0$

 $2sin\theta=0$

Hence, $tan\theta=1$ or 2.

But, $tan\theta$ cannot be 2 in the given range.

Hence, $$\sqrt{2}$$ and the required value will be 2 .

38. Solution: $\theta + \cos \theta =$

Correct Answer: d

Given that:

$$(1 + sec22 + to68^{22 + tan68})$$

$$\Rightarrow (1 + \cos e \cos 68 + \cos 68 + \cos 68 + \cos 68) \cos 68 + \cos 68 \cos 68 - 1)$$

$$\Rightarrow (1 + \sin 68 + \cos 68) \cos 68 - 1)$$

$$\Rightarrow \cos 68 + \cos 68 - 1$$

$$\cos 68 + \cos 68 - \cos$$

Correct Answer: a

$$x2+y2 \Rightarrow \sqrt{x \choose x^{2}+y^{2}} sin\theta - \sqrt{x^{2}+y^{2}} cos\theta = 1$$

$$\Rightarrow sin\theta = \sqrt{x \choose x} cos\theta = -\sqrt{x^{2}+y^{2}} cos\theta = 1$$

$$\Rightarrow sin\theta = \sqrt{x \choose x} cos\theta = -\sqrt{x^{2}+y^{2}} cos\theta = 1$$

$$\Rightarrow sin\theta + co\theta b 2$$

$$\Rightarrow cos\theta = -\sqrt{x^{2}+y^{2}} cos\theta = 1$$

$$\Rightarrow cos\theta = -\sqrt{x^{2}+y^{2}}$$

40. Solution:

Correct Answer:d

$$cosec2\theta = \begin{cases} 8xy & 2 & 2 & 2 & 2 \\ (2x+y) & \ge 1 \Rightarrow 8xy \ge (2x+y) \Rightarrow 4x+y+4xy-8xy \le 0 \Rightarrow 4x+y-4xy \le 0 \Rightarrow (2x-y) \le 0 \ Bu$$
41. Solution:

2

Correct Answer: d

No details about her birth certificate is given.

Correct Answer: a

All necessary conditions fulfilled.

43. Solution:

Correct Answer: a

All necessary conditions fulfilled.

44. Solution:

Correct Answer: c

Her case would be referred to school principal as she fulfills condition ().

45. Solution:

Correct Answer: d

46. Solution:

Correct Answer: d

The given information can be shown as:

Person from left	В	F/G	D	Е	G/F	С	А	T Nort h
Subjec t	Commerc	Chemist	Maths	Physic s	Medicin e	History	Arts	

Month of birth	March/M ay	April	May/Mar ch	July	June	Februar Y	Januar Y

Correct Answer: a

Aryan's sister's father's father is his/her grandfather and his/her grandfather's only son is his/her father. Aryan's father's wife is his/her mother. Hence, the lady is the mother of Aryan.

48. Solution:

Correct Answer: d

Both the given conclusions are superfluous.

49. Solution:

Correct Answer: d

Both the conclusions are invalid.

50. Solution:

Correct Answer: a

Q. Answer key/Solution

Only the first conclusion is valid.

Correct Answer: d

Both the assumptions are valid in the light of the given statement.

52. Solution:

Correct Answer: a

Q. Answer key/Solution

From statement I: No information is given about a. Hence, statement (I) alone is not sufficient.

From statement II: Let the values of and respectively. be and

 $-\times 100 = 66.66\%$ 5x 3*x* = (5x-3x)Hence, statement II alone is sufficient.

Hence, statement II alone is sufficient.

53. Solution:

Correct Answer: c Information given in either of the statements is alone not sufficient. From statements I and II: On combining the information given in the two statements, it can be concluded that R is standing at extreme left position. Hence, both the statements together are sufficient.

54. Solution:

Correct Answer: d

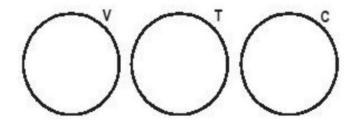


Fig (a)

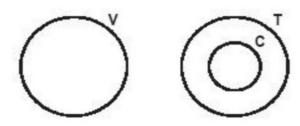


Fig (b)

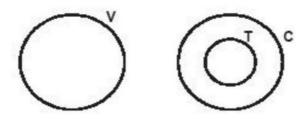


Fig (c)

Correct Answer: C

is sister of , who is brother of .

$$P \times Q \stackrel{\text{is sister of}}{+} P \stackrel{\cdot}{-} Q \qquad R$$

Sirections (Q. 55 and 56): Read the following information carefully and answer the questions given below.

means is the son of is P the sister of

Q means $P^{\mathfrak{Q}}$ the brother of

 $P \times \text{means } P \text{ is the mother of } Q$

56. Solution: *P* +

Correct Answer: c

P -

Q

is sister of R, who is mother of V, who is brother of S

 $T \times R - V + S \stackrel{\text{is.mo}}{\Rightarrow} T$ ther of R , who is son of V , who is sister of S $T - R \div V \times S \stackrel{\text{js.mo}}{\Rightarrow} T$ nother of R, who is brother of V, who is son of $T - R + V \div S \Rightarrow T$ is son of R, who is mother of V, who is brother of V Option (3) states that is husband of .

T

$$T \div R \times V + S \Rightarrow T_S$$
 57. Solution:

Correct Answer: c

can be rewritten as:

$$6 \div 4 + 3 \times 8 - 2$$

$$= 6 \times 4 \div 3 - 8 + 2 = 6 \times 4 \div 3 - 8 + 2 = 2$$

58. Solution:

Correct Answer: c

59. Solution:

Correct Answer:d

The shaded region moves clockwise inside the fixed triangle on upper left corner. The other triangle moves by clockwise and number of lines inside increase by one in each step.

60. Solution:

Correct Answer: d

Each side in bended inwards in anticlockwise manner one by one. The circular dot appear on the sides one after another in anticlockwise manner.

61. Solution:

Correct Answer: b

Q. Answer key/Solution

The elements of figure (A) move in a specific pattern to figure (B). The only figure satisfying the given condition is option (b).

62. Solution:

Correct Answer: a

Q. Answer key/Solution

Using the information given in the question, we can calculate the number of participants fullifing a particular attribute

SMARTNESS - b, d, e, f, g, h, i, I, n, o, x, q, t, w, y, p, z

EDUCATION - j, i, f, h, g, t, n, o, p, z, y, q, s

PRESENTATION - t, g, I, m, u, v, s, r, n, o, p, z

APPEARENCE - j, i, k, w, h, f, g, n, o, I, m, e

QUICK-WITTED - a, c, b, d, e, f, h, g, t, y

63. Solution:

Correct Answer: c

Using the information given in the question, we can calculate the number of participants fullfilling a particular attribute SMARTNESS - b, d, e, f, g, h, i, l, n, o, x, q, t, w, y, p, z EDUCATION - j, i, f, h, g, t, n, o, p, z, y, q, s PRESENTATION - t, g, l, m, u, v, s, r, n, o, p, z APPEARENCE - j, i, k, w, h, f, g, n, o, l, m, e QUICK-WITTED - a, c, b, d, e, f, h, g, t, y

64. Solution:

Correct Answer: c

The given information can be shown as:

Person from left	В	F/G	D	E	G/F	С	A	T Nort h
Subjec t	Commerc	Chemist	Maths	Physic s	Medicin e	History	Arts	
Month of birth	March/M ay	April	May/Mar ch	July	June	Februar y	Januar Y	

Correct Answer: c

The two possible cases are:

Day	Monday	Tuesday	Wednesday	Thursday
Case I	Hockey	Ludo	Cricket	Chess
Case II	Hockey	Ludo	Chess	Cricket

Hence, Ludo was played on Tuesday.

Correct Answer: b

From left, D will be at the 4 th position and E will be at the 2 nd position. Now, A is not at any of the extreme ends, therefore, he has to be at the 3rd position from left. Also, C is at the extreme right end. So, the correct order is BEADC.

67. Solution:

Correct Answer:b

The question statement is whether braindrain is better than brain in the drain. Brain in the drain implies that if one stays here in India, he/she will be rendered useless. The 'Yes' argument is weak because according to this, talent and hard work is not recognised in India which is not true. It is a well-known fact that, where there is a will, there is a way. So, a person who has will, initiative or drive can make it big anywhere in the world, is true. Therefore, the 'No' argument is strong.

68. Solution:

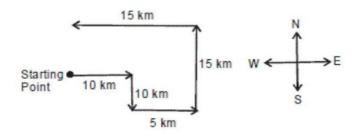
Correct Answer: a

From statement II, we conclude that rank of Sonal is 6.

69. Solution:

Correct Answer:b

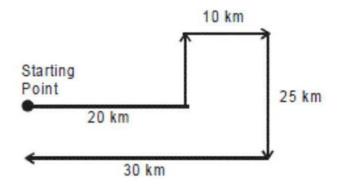
From Statement I:



Required distance

From Statement II:

$$\therefore$$
 =5 km



: Required distance

Hence, both the statements alone are sufficient to answer the question.

70. Solution:

Correct Answer: b

From statement I:

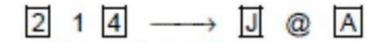
目 回

753-9B# *

: The code for '7' is *.

J

 $427A\star$



∴ The code for '7' is *.

71. Solution:

Correct Answer: b

```
Units sold by P in country
Units sold by R in country A = 100 \times 50000 = 10000
   40
= 100 \times 80000 = 32000
Hence, required sum
                                                        units.
                      = 32000 + 10000 = 42000
72. Solution:
Correct Answer: a
Required ratio
                   Sales of P in country
               = A Sales of P in
                  country B
   20
   <sup>100</sup>×5000
                  \stackrel{\checkmark}{\underset{25\times7}{}} = ^{7}. 
  <sup>100</sup>0
73. Solution: 0
      0
Correct Answer: b
Increased sales of in country
   100×50000 p100=12100 units
Increased sales of Q in country A
                                  units
                   25
Diffe Ord & 5 brown open 1 to en sple 6 2 5
                                      units.
                               = 2525
74. Solution:
Correct Answer: a
P's sales in country
                                                    units.
                           25
S's sales in country B = \frac{100}{5} \times 70000 = 17500 nits.
T's sales in country C = 100 \times 80000 = 12000 units.
R's sales in country A = 100 \times 50000 = 1000 Qunits.
```

 $B = 100 \times 70000 = 21000$

When arranged in descending order, the sales which comes at the second number is P's sales in country B.

75. Solution:

Correct Answer: a

Average product in Gujarat

76. Solution:

Correct Answer: c

Q. Answer key/Solution

It was maximum in 1998-99 and that was

1113 15539×100 = 7. 16%

77. Solution:

Correct Answer:b

Simple annual growth rate

78. Solution:

Correct Answer: a

The total value of sales crores.

79. Solution: = $30, 00, 000 \times 1875 = 562.5$

Correct Answer: c

80. Solution:

Correct Answer: b

Q. Answer key/Solution

The required percentage $\frac{45-35}{45} \times 100 \approx 22$

81. Solution:

Correct Answer: a

Q. Answer key/Solution

Light cannot pass through an opaque substance. Similarly, air cannot pass through a hermetic object.

82. Solution:

Correct Answer: a

Beat around the bush means to discuss a matter without coming to the point.

83. Solution:

Correct Answer:b

The correct phrase is 'people heard a strange noise'.

84. Solution:

Correct Answer: b

Bag and baggage means with all one's belongings.

85. Solution:

Correct Answer: b

The correct spelling of the word is 'plague'.

Correct Answer: d

The correct spelling of the word is 'insidious'. Therefore, option (d) is correct.

88. Solution:

Correct Answer: a

Q. Answer key/Solution

Absurd means wildly unreasonable, illogical, or inappropriate.

89. Solution:

Correct Answer: b

Q. Answer key/Solution

Only 'imminent' is the appropriate answer.

90. Solution:

Correct Answer: a

1QS is a mandatory sequence.

91. Solution:

Correct Answer: d

SP is a mandatory pair.

92. Solution:

Correct Answer: c

'Prettiest' denotes the superlative degree of adjective, which is used when more than two things are compared.

93. Solution:

Correct Answer: d

The sentence is correct in its given form.

94. Solution:

Correct Answer: c

Inside, which means an inner part of something, is the most appropriate answer since the passage suggests that all the four people are sitting in the van.

95. Solution:

Correct Answer:b

Since the prisoners adhered to her, they stood up obediently or submissively.

'Submediant' is the sixth tone of a major or minor scale.

96. Solution:

Correct Answer: a

Q. Answer key/Solution

Options (c) and (d) are logically incorrect as Priya and Saini are prisoners and it would be illogical to check one of them and not check the other. Exact is grammatically incorrect as the correct phrase should have been 'done exactly the same.... The correct word is 'same.

97. Solution:

Correct Answer: c

Since the extract is in past tense, 'had' is the answer.

98. Solution:

Correct Answer: d 'Surreptitiously' is the correct answer. It means done, made or acquired by stealth. It is clear from the passage that Radhika didn't want to take any chances with the prisoners and hence, it can be inferred that Radhika didn't want Priya to know about the tracing microchip.

Correct Answer: d

Since Henry repaired clocks and watches of his friends and neighbours, this remark must have been made to show that even the clocks were aware of the magic in his hands and shuddered at the prospect of being taken apart and mended by Henry.

100. Solution:

Correct Answer: a

Since after meeting the driver, Henry wondered about how he would produce such a machine and so, his attitude can be called inquisitive.

101. Solution:

Correct Answer: b

In the passage, it has been clearly mentioned that Clara decided to be with Henry even when she knew that Henry's first love would be engines and she would have to support him in sharing his vision.

102. Solution:

Correct Answer: c

It was the confidence that Henry got after reading about Dr. Otto and how he had designed a gasoline engine and realized that even he could design something like that.

103. Solution:

Correct Answer: b

Q. Answer key/Solution

Refer to these lines from the passage - "Parental expectations have a distinct slant. Rarely ever do they provide for the natural proclivities of the progeny." Hence, option (b) is the correct answer.

Correct Answer: c

The fact that everyone is attacking the panel at the same time indicates that it is a determined and

combined effort. 'Concerted' aptly fits in the first blank.

'Discredit' means to damage the reputation. So, it suitably fits in the second blank. This makes option (c)

correct. 'Contrive' means to plan with cleverness or ingenuity. Option (b) is negated as 'commend' is

inappropriate in the second blank. People will not attack the panel to praise the panel. Option (d) is

incorrect as a campaign cannot be 'fortuitous'. 'Fortuitous' means fortunate.

105. Solution:

Correct Answer: c

'Postulate' means to demand or claim, even to assert. 'Gamble' on is to take a risk. 'Conduits' are pipes

or tubes for conveying water or other fluid.

'Avenues' are a means of access or attainment and this fits the second blank best. The answer is (c).

106. Solution:

Correct Answer: a

'Condone' means to overlook, forgive, or disregard (an offense) without protest or censure and

'condemn' means to express strong disapproval of. So, option (a) is correct.

107. Solution:

Correct Answer: a

'Delirious' means to be in an excited state. Therefore, its correct antonym is option (a) - 'Composed'.

108. Solution:

Correct Answer: c

Q. Answer key/Solution

In sentence A, article 'the' before 'rightfully' is not required. In sentence B, 'utterances' is plural, so a plural verb should be used. In sentence C, 'retained' should be replaced with 'retain'. In sentence D, 'partial' is not the correct word to be used.

109. Solution:

Correct Answer: a

Q. Answer key/Solution

Sentence is incorrect. Use of 'any other people' is incorrect in the given context.

110. Solution:

Correct Answer:b

Q. Answer key/Solution

Sentence *B* is incorrect as 'needs to doing' is a grammatically incorrect usage.

Correct usage should be 'needs to be'.

111. Solution:

Correct Answer:b

'Headway' means 'progress', 'breakthrough' or 'advance'. So, the inappropriate word here is 'mistake' which is not connected to these four words.

112. Solution:

Correct Answer: d

a Answer key/Solution

'Obsequious' means who listens to others and follows others. 'Servile', 'sycophant' and 'observant' also mean the same. So, most inappropriate word is 'stubborn' which is the opposite of 'obsequious'.

Correct Answer: c

'Percolate' means to reach the lower levels slowly and steadily so it is synonymous with 'filter,'

'permeate' and 'trickle'. Hence, an inappropriate replacement of the word would be 'egress' which

means to exit.

114. Solution:

Correct Answer: b

The answer is clearly mentioned in the second paragraph where the author says - "Unprepossessing,

ugly, vain, flippant, obscene...even dishonest at times, Voltaire was a man with faults of his time..."

Hence, option (b) is the correct answer.

115. Solution:

Correct Answer: d

Q. Answer key/Solution

Option (d) has been mentioned in the fifth paragraph of the passage - "He helped to make the powder

with which Mirabeau...the Old Regime."

116. Solution:

Correct Answer: c

Q. Answer key/Solution

The answer is given clearly in the fifth paragraph. Refer to the third sentence of that paragraph - "To

name Voltaire...is to characterize the entire eighteenth century." Hence, the correct answer is option (c).

117. Solution:

Correct Answer:b

Since the author has not given his personal opinion about Voltaire, the tone is not critical. He has not praised Voltaire and so, option (c) is also ruled out. At the same time, he does not show arrogance or dislike about Voltaire and so, option (d) is also wrong. He analysed Voltaire, his works and his qualities and thus, the correct answer is option (b).

118. Solution:

Correct Answer: a

'at first' is the correct expression. 'The Greek poetry of Homer was' is the correct expression according to the subject verb agreement rule. 'which' is correct in this case. Hence, option (a) is the correct sentence.

119. Solution:

Correct Answer: b

There must be a definite article 'the' before 'number'. 'it's' is a contraction of it is. 'its' is correct in this case. 'literally countless' is the correct phrase to be used. Hence, option (b) is the correct sentence.

120. Solution:

Correct Answer: c

'were elected each year' is the correct phrase according to the subject verb agreement rule. Also, the definite article 'the' is necessary before 'most powerful officials'. Therefore, option (c) is the correct answer.