

###ANSWERS###

1. Ans. B.

Option B – **Someone/something not suiting their situation**, is the correct meaning of the given idiom.

2. Ans. D.

Option D – **To be in a risky or uncertain situation**, is the correct meaning of the given idiom.

3. Ans. A.

Option A – Inappropriate, is the correct antonym for the given word.

Relevant – closely connected or appropriate to what is being done or considered.

Proud – having or showing a high or excessively high opinion of oneself or one's importance.

Fitting - a small part on or attached to a piece of furniture or equipment.

4. Ans. D.

Option D – Happiness, is the correct antonym for the given word.

Exasperation – a feeling of intense irritation or annoyance.

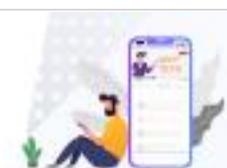
Destruction – the state or fact of being destroyed.

Fury – wild or violent anger.

Happiness - the state of being happy.

5. Ans. B.

Option B – Privilege, is the correct synonym for the given word.



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Prohibition – the action of forbidding something, especially by law.

Privilege – a special right, advantage, or immunity granted or available only to a particular person or group.

Exclusion – the process of excluding or the state of being excluded.

Punishment - the infliction or imposition of a penalty as retribution for an offence.

6. Ans. C.

Option C – Developing, is the correct synonym for Formative.

Formative – serving to form something.

Destructive – causing great and irreparable damage.

Malleable – able to be hammered or pressed into shape without breaking or cracking.

Compelling – evoking interest, attention, or admiration in a powerfully irresistible way.

7. Ans. B.

Option B – Unpredictable, is the correct synonym for the given word.

Erratic – not even or regular in pattern or movement; unpredictable.

Deliberate – done consciously and intentionally.

Ordered – give an authoritative instruction to do something.

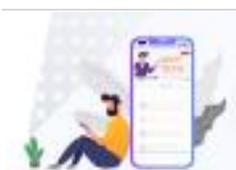
Unpredictable - not able to be predicted; changeable.

Continuous - forming an unbroken whole; without interruption.

8. Ans. D.

Option D – Gather, is the correct synonym for the given word.

Spread – open out (something) so as to extend its surface area, width, or length.



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Dissipate – (of a person or way of life) overindulging in sensual pleasures.

Repulse – drive back (an attack or attacker) by force.

9. Ans. C.

Option C - To be completely compliant to another person, is the correct meaning of the given idiom.

10. Ans. C.

Option C – Stale, is the correct synonym for the given word.

Musty- having a stale, mouldy, or damp smell.

Ready – in a suitable state for an action or situation; fully prepared.

Filthy – disgustingly dirty.

Stale – no longer fresh and pleasant to eat; hard, musty, or dry.

Fresh - recently made or obtained; not tinned, frozen, or otherwise preserved.

11. Ans. A.

Option A – Ignore is the correct antonym for the given word.

Mull – think about (a fact, proposal, or request) deeply and at length.

Ruin – the physical destruction or disintegration of something.

Ponder – think about (something) carefully, especially before making a decision or reaching a conclusion.

Weigh up - carefully assess someone or something.

12. Ans. C.

Option C – Permanent, is the correct antonym for the given word.

Momentary – lasting for a very short time; brief.



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Brief – of short duration; not lasting for long.

Short term - occurring over or relating to a short period of time.

13. Ans. B.

Option B – To run away, is the correct meaning of the given idiom.

14. Ans. D.

Option D – To be too fearful to undertake or complete an action, is the correct meaning of the given idiom.

15. Ans. D.

Option D – Introduction, is the correct synonym for the given word.

Afterword – a concluding section in a book.

Conclusion – the end or finish of an event, process, or text.

Closure – an act or process of closing something, especially an institution, thoroughfare, or frontier, or of being closed.

Introduction – the action of introducing something.

16. Ans. B.

Option B – Clumsy, is the correct antonym for the given word.

Nimble – quick and light in movement or action; agile.

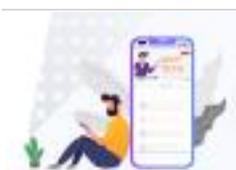
Agile – able to move quickly and easily.

Clumsy – awkward in movement or in handling things.

Sprightly – (especially of an old person) lively; full of energy.

Quick – moving fast or doing something in a short time.

17. Ans. C.



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Option C – Reject, is the correct antonym for the given word.

Embrace – hold (someone) closely in one's arms, especially as a sign of affection.

Seize – take hold of suddenly and forcibly.

Engage – occupy or attract (someone's interest or attention).

Reject – dismiss as inadequate, unacceptable, or faulty.

Caress – touch or stroke gently or lovingly.

18. Ans. A.

Option A – Supporter is the correct synonym for the given word.

Advocate – a person who publicly supports or recommends a particular cause or policy.

Supporter – a person who approves of and encourages a public figure, political party, policy, etc.

Enemy – a person who is actively opposed or hostile to someone or something.

Opposition – resistance or dissent, expressed in action or argument.

Critic – a person who expresses an unfavourable opinion of something.

19. Ans. D.

Option D – **Captivate**, is the correct synonym for the given word.

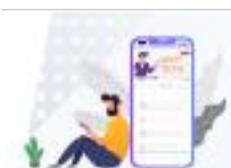
Beguile means charm or enchant (someone), often in a deceptive way.

Foolish – lacking good sense or judgement; unwise.

Disgust – cause (someone) to feel revulsion or strong disapproval.

Ignorant – lacking knowledge or awareness in general; uneducated or unsophisticated.

Captivate – to hold the attention of someone by being extremely interesting, exciting.



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20. Ans. B.

Option B – Acquit is the correct synonym for the given word.

Exonerate means absolve (someone) from blame for a fault or wrongdoing.

Take – lay hold of (something) with one's hands; reach for and hold.

Acquit – free (someone) from a criminal charge by a verdict of not guilty.

Abandon – cease to support or look after (someone); desert.

Convict - a person found guilty of a criminal offence and serving a sentence of imprisonment.

21. Ans. D.

Option D – **To make a strenuous effort**, is the correct meaning of the given idiom.

22. Ans. B.

Option B – **To speak clearly and directly about things**, is the correct meaning of the given idiom.

23. Ans. C.

Option C – **Sure**, is the correct antonym for the given word.

24. Ans. A.

Option A – **Disapprove**, is the correct antonym for the given word.

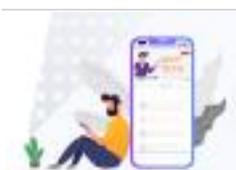
25. Ans. B.

Option B – **Pleasant**, is the correct antonym for the given word.

26. Ans. D.

Option D – **Compassionate**, is the correct antonym for the given word.

27. Ans. A.



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Option A – **Begin to suspect trickery or deception**, is the correct meaning of the given idiom.

28. Ans. C.

Option C – **To exaggerate something**, is the correct meaning of the given idiom.

29. Ans. D.

Option D – **Get rid of**, is the correct synonym for the given word.

30. Ans. D.

Option D – **Respect**, is the correct antonym for the given word.

31. Ans. D.

Option D – **Scarcity**, is the correct synonym for the given word.

32. Ans. A.

Option A – **Perilous**, is the correct synonym for the given word.

33. Ans. B.

Option b – **Fellowship**, is the correct synonym for the given word.

34. Ans. C.

Option C – **To**, is the correct preposition to fill in the blank.

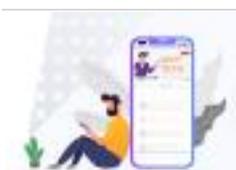
To attend to means **be present at (an event, meeting, or function)**.

35. Ans. D.

Option D – **To cause trouble**, is the correct meaning of the given idiom.

36. Ans. B.

Option B – **To agree with someone**, is the correct meaning of the given idiom.



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37. Ans. D.

Option D – **Extravagant**, is the correct antonym for the given word.

38. Ans. A.

Option A – **Innocent**, is the correct antonym for the given word.

39. Ans. A.

Option A – **Warning**, is the correct synonym for the given word.

40. Ans. D.

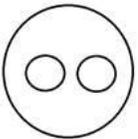
Option D – **Crucial**, is the correct synonym for the given word.

41. Ans. C.

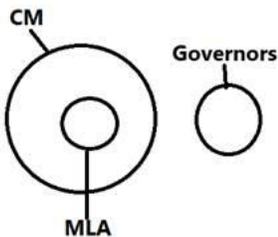
Option C – **Publicize**, is the correct synonym for the given word.

42. Ans. C.

In a residence there are both residential and security guard



43. Ans. B.



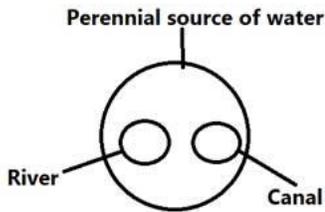
44. Ans. C.



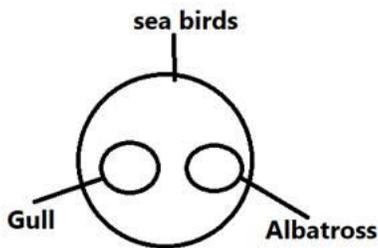
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River and canal both are the perennial source of water.



45. Ans. C.



46. Ans. D.

All except Corundum are animal sanctuaries, while corundum is a form of aluminium

47. Ans. C.

Hydrogen and oxygen are two different gases. But they are apart from Air SO oxygen and hydrogen will come under air circle.



48. Ans. C.

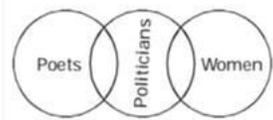
Botany is the branch of science which deals with the study of plants. Entomology is the branch of science which deals with the study of insects.

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49. Ans. B.

No poet can be women as women poets are called poetess.



50. Ans. D.

Prairies is the grassland of north America just like that downs is the grassland of Australia.

51. Ans. C.

As walking is related to running similarly breeze is related to wind.

52. Ans. A.

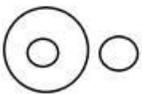
Argentina is the neighbour's country of Brazil. Just like that Iran is neighbours' country of Iraq.

53. Ans. A.

Silver is made of one element else everyone is made by combining more than one element.

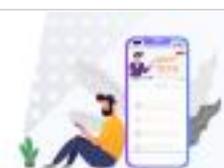
54. Ans. D.

Cobra is a type of snake and lizard is different from snake.



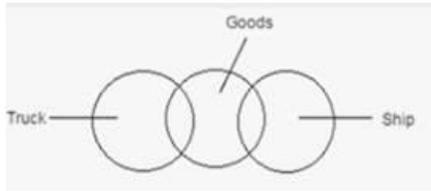
55. Ans. A.

Trucks and ships are different, but they carry goods.



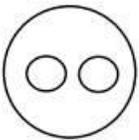
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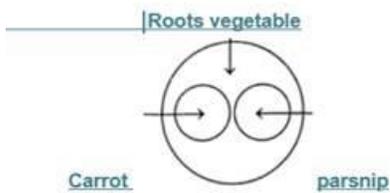
56. Ans. C.

Snake is different from lizard, but both are comes under reptiles.



57. Ans. C.

Carrot and parsnip are two different vegetables, but they are the roots vegetables.



58. Ans. D.

It's a pair of disease and their deficiency.

But rickets is due to deficiency of Vitamin-D, not Sodium.

59. Ans. A.

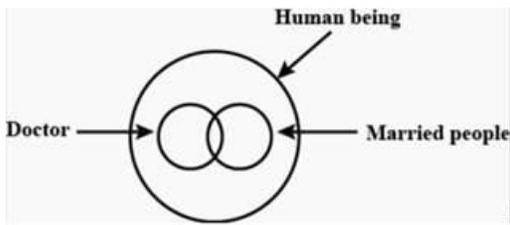
Any change in the first in made by means of second.

60. Ans. C.

Both doctor and married People will be Human Being.

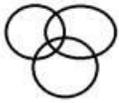
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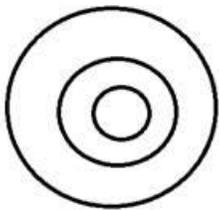
61. Ans. A.

Some actors may be producers. Some producers may be directors. Some directors are Actors



62. Ans. C.

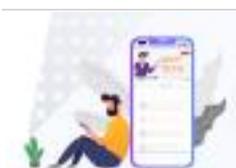
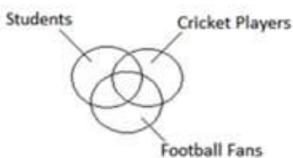
A ship sails in ocean, a sailor sails in ship So diagram will be



63. Ans. A.



64. Ans. A.



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65. Ans. C.

Swan is the only water bird in the group.

66. Ans. D.

All except Bromine is metal, While Bromine is non-metal.

67. Ans. C.

Curie discovered radium and Funk discovered vitamins

68. Ans. B.

time taken by them together to complete the work together

$$= \frac{1}{\frac{1}{20} + \frac{1}{30}} = \frac{60}{3+2} = 12 \text{ days}$$

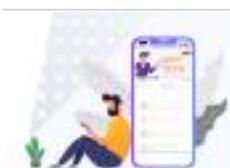
69. Ans. A.

Average year of the family = $\frac{\text{sum of the age of family}}{\text{total numbers of member}}$

$$= \frac{67 \times 2 + 35 \times 2 + 6 \times 3}{2 + 2 + 3} = \frac{222}{7} = 31.714$$

70. Ans. A.

given that $f(a) = \frac{a+1}{a-1}$



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$$b = f(a)$$

$$b = \frac{a+1}{a-1}$$

$$ab - b = a + 1$$

$$a = \frac{b+1}{b-1} = f(b)$$

$$a : f(b) = 1 : 1$$

71. Ans. B.

$$SI = \frac{P \times r \times t}{100} = \frac{600 \times 10 \times 3}{100} = \text{Rs.} 180$$

72. Ans. B.

$$CI = P \left[\left(1 + \frac{r}{100} \right)^2 - 1 \right]$$

$$2100 = P \left[\left(1 + \frac{10}{100} \right)^2 - 1 \right]$$

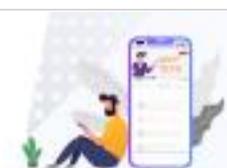
$$P = \frac{2100 \times 100}{21} = 10000$$

$$\begin{aligned} SI &= \frac{P \times r \times t}{100} \\ &= \frac{10000 \times 10 \times 2}{100} \\ &= 2000 \end{aligned}$$

73. Ans. B.

A and B complete the work in one day $\frac{1}{9}$ and $\frac{1}{18}$ work.

$$\text{Total work finished by them together} = 4 \left(\frac{1}{9} + \frac{1}{18} \right) = 4 \left(\frac{1}{6} \right) = \frac{2}{3}$$



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74. Ans. C.

let the average of last four mathes is X. then

$$50 \times 10 = 40 \times 6 + X \times 4$$

$$4X = 500 - 240 = 260$$

$$X = 65$$

75. Ans. C.

$$= \frac{n(n+1)}{2} \Big|_{n=2} = \frac{40 \times 41}{2} = 820$$

the sum of the first forty natural numbers

$$\text{Average} = \frac{820}{40} = 20.5$$

76. Ans. D.

Let the distance of point O from point X and Point Y is d_1 and d_2 , respectively. and let the speed of X is s kmph, they take the same time t to reach at point O.

$$t = \frac{d_1}{s} = \frac{d_2}{45}$$

$$d_1 = 32 \times 45 = 1440 \text{ km}$$

$$d_2 = 40.5 \times s = 40.5s \text{ km}$$

Now,

$$\frac{1440}{s} = \frac{40.5s}{45}$$

$$s^2 = \frac{1440 \times 45}{40.5} = 1600$$

$$s = 40 \text{ kmph}$$

77. Ans. B.



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$$\text{compound interest} = P \left[\left(1 + \frac{r}{100} \right)^2 - 1 \right]$$

$$85 = 320 \left[\left(1 + \frac{25}{200} \right)^t - 1 \right]$$

$$\left(\frac{9}{8} \right)^t = \frac{17}{64} + 1 = \frac{81}{64} = \left(\frac{9}{8} \right)^2$$

$$t = 2$$

78. Ans. B.

as we can see that

$$11 \times 19 = 209$$

$$\text{Then, } 3 \times 19 = 57$$

79. Ans. A.

$$\text{the interest received by the first person} = \frac{800 \times \frac{1}{2} \times 8}{100} = \text{Rs.}32$$

Let another man receive the same interest in t years, then

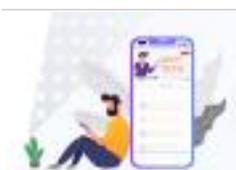
$$32 = \frac{150 \times t \times 8}{100}$$

$$t = \frac{8}{3} \text{ years} = 32 \text{ months}$$

80. Ans. C.

let the length of the train is d m long. Then,

Distance = speed x time



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$$d + 600 = \left(90 \times \frac{5}{18}\right) \times 60$$

$$d = 1500 - 600 = 900m$$

81. Ans. B.

$$\text{A completes work in one day} = \frac{1}{10}$$

$$\text{B completes work in one day} = \frac{1}{15}$$

Let B take t days to complete the remaining work

$$2\left(\frac{1}{10} + \frac{1}{15}\right) + \frac{t}{15} = 1$$

$$\frac{t}{15} = 1 - \frac{1}{3} = \frac{2}{3}$$

$$t = 10 \text{ days}$$

82. Ans. A.

Let the three consecutive odd numbers are $x-2$, x & $x+2$. Now,

$$(x-2) + x + (x+2) = 38 + \frac{x-2+x+x+2}{3}$$

$$3x = 38 + x$$

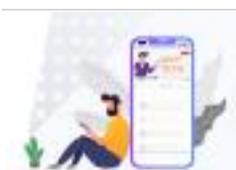
$$2x = 38$$

$$x = 19$$

Then the first number = $19-2 = 17$

83. Ans. B.

A family consumes some water in 20 days



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Then the family consumes water in a day $= \frac{1}{20}$ units

After the arrival of the guest, the consumption of water = $= \frac{1}{20} \left(1 + \frac{25}{100} \right) = \frac{1}{16}$

Then, the water is finished in $= 16 \text{ days}$

84. Ans. B.

Distance is the same, then the time will be universally proportional to speed.

Ratio of time $= \frac{1}{4} : \frac{1}{3} : \frac{1}{2} = 3 : 4 : 6$

85. Ans. C.

the average of 7, 2, 6 & X is 5.

$$\frac{7+2+6+X}{4} = 5$$
$$15+X = 20$$
$$X = 5$$

the average of 17, 7, 1, X & Y is 10.

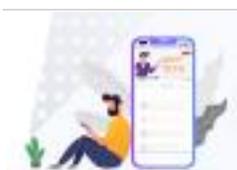
$$\frac{17+7+1+X+Y}{5} = 10$$
$$25+5+Y = 50$$
$$Y = 20$$

86. Ans. A.

let the circumference is d. if a man complete a round of a ground in 3 hours. Then the

speed of the man is $\frac{d}{3}$. Now increased speed = $\frac{d}{3} + 6$

Now,



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$$d = \left(\frac{d}{3} + 6\right) \times 2$$

$$3d = 2d + 36$$

$$d = 36$$

And new speed = $\frac{36}{2} = 18$ kmph

87. Ans. C.

let the speed of train is x kmph.

Now the relative speed of train is respect to passenger and cyclist are $(x-8)$ kmph and $(x-16)$ kmph respectively. and it will cross the distance of its length.

$$d = (x-8) \times 36 = (x-16) \times 40$$

$$\Rightarrow 36x - 288 = 40x - 640$$

$$\Rightarrow 4x = 640 - 288 = 252$$

$$\Rightarrow x = 63 \text{ kmph}$$

88. Ans. D.

A work in one day = $\frac{1}{10}$ unit work

B work in one day = $\frac{1}{15}$ unit of work

$$\text{Total work} = \frac{2}{10} + \frac{5}{15} = \frac{1}{5} + \frac{1}{3} = \frac{8}{15}$$

$$\text{Remaining work} = 1 - \frac{8}{15} = \frac{7}{15}$$

89. Ans. C.

12 men finished a work in 12 days



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1 man finished a work in 144 days

A man finished in one day $= \frac{1}{144}$ unit of work

12 women finished a work in 15 days

1 woman finished a work in 180 days

A woman finished in one day $= \frac{1}{180}$ unit of work

Ratio of efficiency $= \frac{1}{144} : \frac{1}{180} = \frac{1}{12} : \frac{1}{15} = 15 : 12 = 5 : 4$

90. Ans. D.

let the sum of money is P and the rate of interest is r%. then

$$815 = P \left(1 + \frac{3r}{100} \right) \dots i$$

$$854 = P \left(1 + \frac{4r}{100} \right) \dots ii$$

4(i)-3(ii)

$$3260 - 2562 = 4P - 3P$$

$$P = 698$$

91. Ans. A.

The ratios is $\frac{1}{3} : \frac{1}{4} : \frac{1}{5} : \frac{1}{6} = \frac{20}{60} : \frac{15}{60} : \frac{12}{60} : \frac{10}{60} = 20 : 15 : 12 : 10$

Let the price of tickets of each category are 20y, 15y, 12y & 10y.

Then the sum of tickets,



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$$\begin{aligned}20 + 15y + 12y + 10y &= 342 \\57y &= 342 \\y &= 6\end{aligned}$$

The costliest price = $20y = 120$

92. Ans. B.

if we remove 4, then we get 7, 13 & 25

If we remove 5, then we get 6, 12 & 24

6, 12 & 24 are in a GP.

93. Ans. B.

$$\begin{aligned}\Rightarrow 0.129 - \frac{1}{8} \\ \Rightarrow 0.129 - 0.125 \\ \Rightarrow 0.004\end{aligned}$$

94. Ans. A.

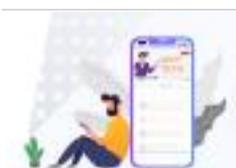
We know that

$$\begin{aligned}3600 \text{ sec} &= 1 \text{ hr} \\ 1 \text{ sec} &= \frac{1}{3600} \text{ hr} = 0.00028 \text{ hr}\end{aligned}$$

95. Ans. B.

Given that the volume of two cubes is 216:343.

We know that the volume of a cube is a^3 when the side is a and the surface area is $6a^2$.



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$$\frac{V_1}{V_2} = \frac{a_1^3}{a_2^3} = \frac{216}{343}$$

$$\frac{a_1}{a_2} = \frac{6}{7}$$

$$\frac{S_1}{S_2} = \frac{6a_1^2}{6a_2^2} = \frac{a_1^2}{a_2^2} = \frac{36}{49}$$

96. Ans. A.

the work completed by A and B in one day = $\frac{1}{15}$...i

And the work completed by B and C in one day = $\frac{1}{10}$...ii

Let work completed by A and C in one day = $\frac{1}{x}$...iii

And work completed by then in one day = $\frac{1}{4}$

$$\frac{1}{2} \left(\frac{1}{15} + \frac{1}{10} + \frac{1}{x} \right) = \frac{1}{8}$$

$$\frac{4+6}{60} + \frac{1}{x} = \frac{1}{4}$$

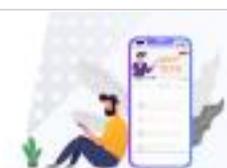
$$\frac{1}{x} = \frac{1}{4} - \frac{1}{6} = \frac{1}{12}$$

$$x = 12$$

97. Ans. D.

let the sum of money and the rate of interest are P and r% respectively.

Then, $9800 = P \left(1 + \frac{5r}{100} \right)$...i



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And $12005 = P \left(1 + \frac{8r}{100} \right) \dots ii$

Now, $\frac{9800}{12005} = \frac{100 + 5r}{100 + 8r}$

$$980000 + 78400r = 1200500 + 60025r$$

$$18375r = 220500$$

$$r = 12\%$$

98. Ans. A.

let the number of boys is X, then the number of girls is (600-X).

$$11 \text{ years } 9 \text{ months} = \left(11 + \frac{3}{4} \right) \text{ years} = \frac{47}{4} \text{ years}$$

$$\frac{47}{4} = \frac{12X + 11(600 - X)}{600}$$

$$12X + 6600 - 11X = 7050$$

$$X = 7050 - 6600 = 450$$

Number of boys and girls are 450 and 150 respectively.

99. Ans. B.

Initially A is 400 m ahead of B and after 200 seconds B is 600 m ahead of A.

So total distance covered in 200 seconds = 400 + 600 = 1000 m

Speed of A is 30 kmph & let the speed of B is X kmph., then the relative speed = (X-30) kmph

$$X - 30 = \frac{1000}{200} \times \frac{18}{5}$$

$$X - 30 = 18$$

$$X = 48 \text{ kmph}$$



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100. Ans. A.

let the speed of the stream and the speed of boat are x kmph and y kmph.

Then, upstream speed , $y - x = \frac{30}{6} = 5$...i

Downstream speed, $\frac{y}{2} + x = \frac{30}{6} = 5$

$y + 2x = 10$...ii

By (ii) - (i) $3x = 5$ or $x = \frac{5}{3}$ kmph

101. Ans. C.

Annual rate of interest = 10%

Half-yearly rate of interest = 5%

So, effective rate of interest when compounded half-yearly

$$= 5 + 5 + \frac{5 \times 5}{100} = 10.25\%$$

102. Ans. C.

let the numbers are $x-3, x-2, x-1, x, x+1, x+2, x+3$.

Average = 20

$$\frac{x-3+x-2+x-1+x+x+1+x+2+x+3}{7} = 20$$

$$\frac{7x}{7} = 20$$

$$x = 20$$

largest number will be = $20+3 = 23$



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103. Ans. B.

the prime numbers between 32 to 50 are 37, 41, 43, 47.

$$\text{Average} = \frac{37 + 41 + 43 + 47}{4} = \frac{168}{4} = 42$$

104. Ans. C.

In cooperation with Britain, Durgapur Steel plant was built, Rourkela Steel plant was established in cooperation with Germany and Bhilai steel plant was started in cooperation with Russia. The Hindustan Steel Limited (HSL), which was set up on 19 January 1954.

105. Ans. B.

Canada is **known as the Land of Maple Leaf**. The first Mayor of Montreal and Quebec Jacques Viger said the **maple leaf** is the symbol of the Canadian people

106. Ans. A.

Milkha Singh did not win an olympic medal in his life. Karnam Malleswari is a retired Indian weightlifter. She is the first Indian woman to win a medal at the Olympics in 2000. Vijender Kumar won a bronze medal at the 2008 Beijing Olympics and P.V. Sindhu became the first woman athlete from the country to bag two Olympic medals.

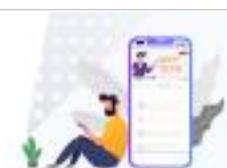
107. Ans. A.

Matthew Webb, a 27-year-old merchant navy captain, becomes the first known person to successfully swim the English Channel. Captain Webb accomplished the grueling 21-mile crossing, which really entailed 39 miles of swimming because of tidal currents, in 21 hours and 45 minutes.

108. Ans. D.

India has so far received 26 Rafale aircraft out of the 36 it has ordered from Dassault Aviation. The multi-role Rafale jets, built by French aerospace major Dassault Aviation, are known for air superiority and precision strikes.

109. Ans. C.



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The city of Moscow, the capital, inland port, and largest city of Russia, Moscow is situated on the banks of **the Moskva River**, which flows for just over 500 km through the East European Plain in central Russia. 49 bridges span the river and its canals within the city's limits.

110. Ans. A.

The place is famous for its oranges, rice, forest wealth and marine life. Saddle Peak (732 Mtrs) is the highest point in the Andaman Islands.

111. Ans. C.

Indian Standard Time is calculated on the basis of $82^{\circ}30'$ E longitude from the clock tower in Mirzapur near Prayagraj Uttar Pradesh, which is situated approximately on the corresponding longitude reference line.

112. Ans. A.

The Sattriya dance form was introduced in the 15th century A.D by the great Vaishnava saint and reformer of Assam, Mahapurusha Sankaradeva as a powerful medium for propagation of the Vaishnava faith. The dance form evolved and expanded as a distinctive style of dance later on.

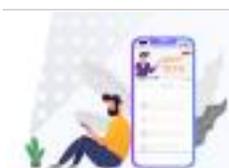
113. Ans. B.

Athletics is a sporting event that involves running, throwing, jumping and walking. The Trophy is given for horse race, the Charminar Trophy at the Hyderabad Race Club. As the game is organized in Hyderabad, the trophy derives its name from the monument, which is also a mosque in Hyderabad Charminar.

114. Ans. A.

Morarji Ranchhoodji Desai was an Indian freedom fighter and the first Prime minister. He is the only Indian to receive the highest civilian awards from both India and Pakistan, namely the Bharat Ratna and Nishan-e-Pakistan.

115. Ans. B.



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Lords cricket ground is called the "Home of cricket" or the "Mecca of cricket" because it was the first officially built ground for the game of cricket. It was first opened in the year 1814 and has been home to international cricket since 1884.

116. Ans. D.

Tulsidas wrote Ramcharitmanas during the **reign of Akbar**. Ramcharitmanas was composed at Ayodhya, Varanasi & Chitrakoot. Tulsidas was a contemporary of William Shakespeare

117. Ans. D.

Given,

$$\text{Critical ratio} = \frac{(\text{Due date} - \text{Today's date})}{\text{Work remaining}}$$

If Critical ratio = 1, The job is on schedule

Critical ratio < 1, Critical job (lagging)

Critical ratio > 1, Non-critical

Job	Due date	Work remaining	Critical ratio
P	22	8	$\frac{22 - 18}{8} = 0.5$
Q	26	2	$\frac{26 - 18}{2} = 4$
R	20	4	$\frac{20 - 18}{4} = 0.5$
S	30	12	$\frac{30 - 18}{12} = 1$

Order to jobs: R-P-S-Q

Among R and P, critical ratios are equal.

So, earliest due data is considered first in order.

118. Ans. D.

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For the diagram,

	Fixed cost	Variable cost
Plan A	7000	0.8
Plan B	12000	0.5
Plan C	0	1.5

∴ Linear equations of

$$\text{Plan A} \Rightarrow (\text{T.C.}) = 7000 + (0.8) (Q)$$

$$\text{Plan B} \Rightarrow (\text{T.C.}) = 12000 + (0.5) (Q)$$

$$\text{Plan C} \Rightarrow (\text{T.C.}) = 1.5 (Q)$$

(T.C.) = Total cost

To get Q_1 , equate plans 'A' and 'C'

$$7000 + 0.8(Q) = 1.5(Q) \Rightarrow Q = \frac{7000}{0.7}$$

$$\therefore Q_1^* = 10000 \text{ units}$$

To get Q_2 , equating plans 'B' and 'C'

$$12000 + 0.5(Q) = 1.5(Q) \Rightarrow Q = \frac{12000}{1}$$

$$Q_2^* = 12000 \text{ units}$$

To get Q_3 , equating 'A' and 'B'

$$7000 + 0.8(Q) = 12000 + (0.5)Q \Rightarrow Q = \frac{5000}{0.3}$$

$$\therefore Q_3^* = 16666.67 \text{ units}$$

From diagram and obtained values, we can conclude that,

If $Q \leq Q_1^*$ i.e.; $Q \leq 10000$ units: Plane 'C' is best



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If $Q_1^* < Q \leq Q_3^*$ i.e.; $10000 < Q \leq 16666.67$: Plane 'A' is best

If $Q > Q_3^*$ i.e.; $Q > 16666.67$ units: Plane 'B' is best

It is because those plans have least total cost in the corresponding areas when observed in figure

\therefore For $Q = 15000 \in (10000; 16000)$ Plan 'A' is best.

119. Ans. A.

Given,

$$\text{Cycle time } (T_c) = \frac{3600}{40} = 90 \text{ seconds/unit}$$

Largest Candidate Rule

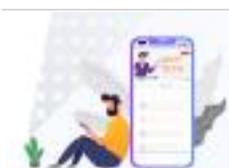
- i) Draw precedence diagram
- ii) List all the work elements in decreasing order of task time.
- iii) Group the elements into workstations starting from top

Such that,

- a) It satisfy precedence relation,
- b) Total station time (T_{si}) \leq cycle time
- c) When one element is assigned continue moving downward.
- d) when a workstation is completed i.e.; total time is \leq cycle time, start from top and assign work elements to another work station by following same procedure.
- e) Strike off the assigned admit cards and continue till all the elements are assigned.

i) Decreasing order of work elements} \Rightarrow $\begin{matrix} \text{B} & \text{D} & \text{H} & \text{F} & \text{C} & \text{A} & \text{G} & \text{E} \\ (55) & (40) & (40) & (35) & (25) & (20) & (14) & (05) \end{matrix}$

ii)



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		T_{si}	T_c
Work station-I	A, B, E \Rightarrow	$20 + 55 + 5 = 80$	< 90
Work station-II	C, D, G \Rightarrow	$25 + 40 + 14 = 79$	< 90
Work station-III	F, H \Rightarrow	$35 + 40 = 75$	< 90

\therefore No. of workstations required (n) = 3

Total time to assemble on unit (T) = 80 + 79 + 75 = 234 seconds.

Total time available = No. of workstations \times Cycle time

$$= 3 \times 90 = 270$$

(a) Line efficiency (η_{line}) = $\frac{234}{270} \times 100 = 86.67\%$

b) Smoothing index = $\sqrt{\sum (T_{s_{Max.}} - T_{si})^2}$

$$= \sqrt{(80 - 80)^2 + (80 + 79)^2 + (80 - 75)^2}$$

$$= \sqrt{0 + 1 + 25} = \sqrt{26}$$

120. Ans. D.

Given,

Arrival rate $\lambda = 5$ per minute = 5/60 per hour

Service rate $\mu = 8$ per minute = 8/60 per hour

Total working hours = 8 per day

Charge per hour = 1.5 \times 60 = 90 rupees

$$\% \text{ utilization of postman} = \frac{\lambda}{\mu} = \frac{5}{8} = 0.625 \times 100 = 62.5\%$$

\therefore % utilization = 62.5%

Average cost due to waiting on part of post man Per day = (Fraction of time the post man is idle) \times Total working hours per day \times Cost per hour

$$= \left(1 - \frac{5}{8}\right) \times 8 \times 90 = 270 \text{ rupees}$$

121. Ans. D.

Given,

λ = Arrival rate = 60/10 = 6 customer per hours

μ = Service rate = 60/6 = 10 customer per hours

probability that no. of customers in system is 'n'

$$P(n) = \rho^n(1 - \rho)$$

where, ρ = Traffic intensity = $\lambda/\mu = 0.6$

An arriving customer can directly go into space if there are

i) Zero customer in queue $\Rightarrow P(0) = \rho^0(1 - \rho)$

ii) One customer in queue $\Rightarrow P(1) = \rho(1 - \rho)$

iii) Two customer in queue $\Rightarrow P(2) = \rho^2(1 - \rho)$

i) Three customer in queue $\Rightarrow P(3) = \rho^3(1 - \rho)$

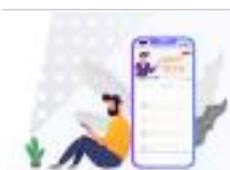
\therefore Total probability = $P(0) + P(1) + P(2) + P(3)$

$$= (1 - \rho)(1 + \rho + \rho^2 + \rho^3)$$

$$= (1 - 0.6)(1 + (0.6) + (0.6)^2 + (0.6)^3)$$

$$= (0.4)(2.176) = 0.8704 = 87.04\%$$

Expected waiting time,



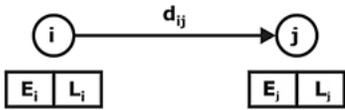
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$$W_q = \frac{\lambda}{\mu(\mu - \lambda)} = \frac{6}{10(10 - 6)} = \frac{3}{20} \text{ hours}$$

$W_q = 9$ minutes

122. Ans. B.



Total float: $(L_j - E_i) - d_{ij}$

Free float: (T.F.) - (Slack at head event)

(T.F.) - $(L_j - E_j)$

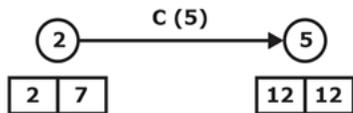
Independent float: (Total float) - (Slack @ Head + Tail event)

Interference float: (Total float) - (Free float) = Slack at head event



Total float of event F = $(19 - 12) - (5)$

Free float = $(2) - (0) = 2$



Total float = $(12 - 2) - 5 = 5$

Independent float = $(5) - (0 + 5) = 0$

Interference float = 0

If activity 'C' starts at time '6'



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$$(EFT)_C = (EST)_C + \text{Duration} = 6 + 5 = 11$$

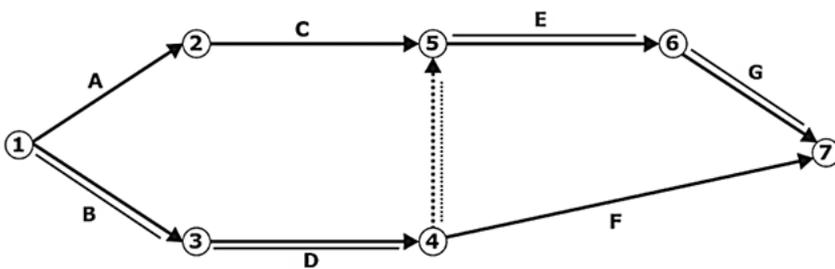
$$(EFT)_D = 12$$

Maximum \Rightarrow 12

$$\therefore (EST)_E = 12 \text{ and } (EFT)_G = 17$$

123. Ans. B.

Given,



Critical activities are B, D, E and G

(i) Expected time = μ_{cp} = Sum of mean times of critical activities

$$\mu_{cp} = \mu_B + \mu_D + \mu_E + \mu_G$$

$$= 3 + 9 + 5 + 2 = 19 \text{ days}$$

$$\text{ii) } \sigma_{cp} = \sqrt{\sigma_B^2 + \sigma_D^2 + \sigma_E^2 + \sigma_G^2}$$

$$= \sqrt{\frac{1}{9} + \frac{1}{9} + 1 + \frac{1}{9}} = \frac{2}{\sqrt{3}} \text{ days}$$

$$\therefore P(95\%) = z = \frac{X - \mu}{\sigma}$$

For 95% confidence level $z = 1.96$

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$$\therefore 1.96 = \frac{x - 19}{\left(\frac{2}{\sqrt{3}}\right)}$$

Project completion time with 95% confidence (X) = 21.26 days

124. Ans. B.

The tweener tennis shot is by far one of the most entertaining in tennis. A tweener is a tennis shot that a player hits between the legs.

125. Ans. C.

Patachitra or Pattachitra is a general term for traditional, cloth-based scroll painting, based in the eastern Indian states of Odisha and West Bengal. Patachitra art form is known for its intricate details as well as mythological narratives and folktales inscribed in it.

126. Ans. B.

Considered by many to be one of India's greatest emperors, Ashoka expanded Chandragupta's empire to reign over a realm stretching from present-day Afghanistan in the west to Bangladesh in the east. It covered the entire Indian subcontinent except for parts of present-day Tamil Nadu, Karnataka, and Kerala.

127. Ans. D.

The position of the sun over the equator is known as Equinox. The equinoxes happen in March (about March 21) and September (about September 23). These are the days when the Sun is exactly above the Equator.

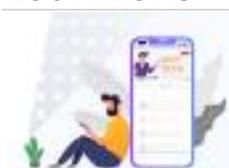
128. Ans. A.

Paratroopers Training School (PTS) is a school in Agra, Uttar Pradesh for the training of paratroopers in the Indian Army. PTS was founded in Agra in 1948.

129. Ans. D.

The Bardoli Satyagraha, 1928 was a movement in the independence struggle led by Sardar Vallabhai Patel for the farmers of Bardoli.

130. Ans. C.



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Jawaharlal Nehru is the longest-serving prime minister of India so far. His tenure lasted for around 17 years, followed by his daughter Indira Gandhi who served two terms of little more than 11 years and nearly five years respectively. Dr Manmohan Singh served two consecutive terms of five years each.

131. Ans. A.

Australian Glenn McGrath holds the records for the Highest wicket taker in the world cup.

132. Ans. B.

The planets Mercury, Venus, Earth, and Mars, are called terrestrial because they have a compact, rocky surface like Earth's terra firma. The terrestrial planets are the four innermost planets in the solar system.

133. Ans. B.

The Gangotri glacier is situated in the Uttarkashi district of Uttarakhand, from where the river Bhagirathi flows and meets the Alaknanda in Devprayag. Ganga is formed after this confluence.

134. Ans. C.

The Thomas Cup, sometimes called the World Men's Team Championships, is an international badminton competition among teams representing member nations of the Badminton World Federation (BWF), the sport's global governing body.

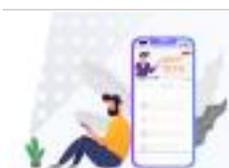
135. Ans. B.

The World Intellectual Property Organization (WIPO) is the global forum for intellectual property (IP) policy, services, information and cooperation. The WIPO headquarters is in Geneva, Switzerland.

136. Ans. B.

In independent India, National emergency has been declared thrice. The first instance was between 26 October 1962 to 10 January 1968 during the India-China war, when "the security of India" was declared as being "threatened by external aggression".

137. Ans. D.



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The term crawl, breaststroke, and butterfly are associated with the game of swimming.

138. Ans. D.

Project Tiger is a tiger conservation programme launched in April 1973 by the Government of India. With the aim of ensuring that the population of Bengal tigers is well-maintained in their natural habitats, this project continues to do everything possible to protect and save the tiger.

139. Ans. A.

Thailand, officially the Kingdom of Thailand, formerly known as Siam, is a country located at the centre of the Indochina peninsula in Southeast Asia.

140. Ans. B.

Nanao Singh Thokchom Is a famous Boxer. He represented India in the 48-kg category at the 2007 Commonwealth Boxing Championships in Liverpool. He won a silver medal at this championship.

141. Ans. A.

The leading wicket-taker of all time in ODIs is Sri Lanka's Muttiah Muralitharan. The spin bowler took 534 wickets in an ODI career spanning from 1993 to 2011.

142. Ans. D.

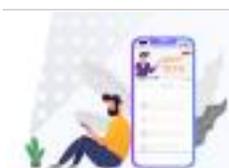
The French Open is the only Grand Slam tournament to use clay courts. Clay courts slow down the ball and produce a high bounce in comparison to grass or hard courts.

143. Ans. B.

Silicon carbide and monocrystalline silicon have good conductivity. Electronic applications of silicon carbide such as light-emitting diodes (LEDs).

144. Ans. C.

The term double- Fault is associated with Tennis. Double fault means hitting a fault on the second service. Tennis or Lawn tennis is a racket sport that can be played individually or between two teams of two teams of two-player each.



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145. Ans. A.

The founder of the Chola Empire was Vijayalaya, who was first feudatory of the Pallavas of Kanchi. He captured Tanjore in 850 A.D.

146. Ans. B.

Chittaranjan Das or CR Das, popularly called Deshbandhu (Friend of the Nation), was an Indian freedom fighter, political activist and lawyer during the Indian independence movement.

147. Ans. D.

One Indian Girl is written by the author Chetan Bhagat. The book is about a girl named Radhika Mehta, who is a worker at the Distressed Debt group of Goldman Sachs, the investment bank.

148. Ans. C.

The [Election Commission of India \(ECI\)](#) is an autonomous constitutional authority responsible for administering Union and State election processes in India.

The Chief Election Commissioner of India heads the Election Commission of India. The President appoints Chief Election Commissioner and Election Commissioners.

149. Ans. C.

The Battle of Plassey was a decisive victory of the British East India Company over the Nawab of Bengal and his French allies on 23 June 1757, under the leadership of Robert Clive.

150. Ans. D.

Karnam Malleswari is a retired Indian weightlifter. She is the first Indian woman to win a medal at the Olympics in 2000.

151. Ans. A.

Vinayak Narahari "Vinoba" Bhave was an Indian advocate of nonviolence and human rights. Often called Acharya, he is best known for the Bhoodan Movement. In 1958 Bhave



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was the first recipient of the international Ramon Magsaysay Award for Community Leadership.

152. Ans. B.

Similipal National Park is a national park and a tiger reserve in the Mayurbhanj district in Odisha. Similipal derives its name from 'Simul' (silk cotton) tree.

153. Ans. D.

Salsette Island is an island in Konkan division of the state of Maharashtra on India's west coast. Administratively known as the Bombay Suburban district, the suburbs of Mumbai and a portion of Thane and Mira-Bhayander lie on it, making it very populous and one of the most densely populated islands in the world.

154. Ans. C.

Dhanpat Rai, better known by his pen name Premchand, was an Indian writer famous for his modern Hindustani literature.

Munshi Premchand wrote many books including Premasharam, Gaban, Nirmala, Rangbhumi, Karm Bhumi, Vardaan, Godan.

155. Ans. D.

A double fault in tennis occurs when the server commits any combination of two faults during one serving point.

156. Ans. B.

The National Anthem of India Jana-gana-mana, composed originally in Bengali by Rabindranath Tagore, was adopted in its Hindi version by the Constituent Assembly as the National Anthem of India on 24 January 1950.

157. Ans. C.

North Eastern Regional Institute of Science and Technology is a science and technology oriented higher education institute situated in Itanagar, Papum Pare district, in Arunachal Pradesh.

158. Ans. A.



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The States Reorganisation Commission (SRC) constituted on 22 December 1953 to recommend the reorganisation of state boundaries. Fazal Ali was the commission. Other members are K. M. Panikkar and H. N. Kunzru.

159. Ans. D.

Michael Fred Phelps II is an American former competitive swimmer. He is the most successful and most decorated Olympian of all time with a total of 28 medals. Phelps also holds the all-time records for Olympic gold medals, Olympic gold medals in individual events, and Olympic medals in individual events.

160. Ans. B.

Advanced Light Helicopter or ALH-DHRUV is an indigenously developed utility aircraft by Hindustan Aeronautics Limited (HAL) with a twin-engine.

161. Ans. A.

The Jallianwala Bagh massacre, also known as the Amritsar massacre, took place on 13 April 1919.

Lord Chelmsford was the governor general of India when Jallianwala Bagh Massacre took place.

162. Ans. C.

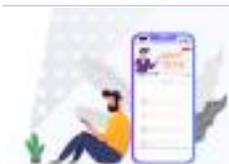
The water-soluble vitamins include ascorbic acid (vitamin C), thiamin, riboflavin, niacin, vitamin B6 (pyridoxine, pyridoxal, and pyridoxamine), folacin, vitamin B12, biotin, and pantothenic acid.

163. Ans. C.

Katie Taylor is an Irish professional boxer and former footballer. She is a two-weight world champion and the current undisputed lightweight champion, having held the WBA title since 2017.

164. Ans. B.

The Agni-5, with a range of 5000km, is the most advanced in navigation guidance, warhead and engine. All these missiles are part of the Indian military's Strategic Force Command.



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165. Ans. D.

The national team played their first match as an independent nation in 1948 in the first round of the 1948 Summer Olympics against France.

166. Ans. A.

Revoke term is related to Bridge. Other related terms to Bridge are: Ruff , Dummy , Little Slam , Grand Slam, Trump , Diamonds.

167. Ans. C.

The Ezra Cup is a popular polo tournament conducted annually in India by the Calcutta Polo Club. The first Ezra Cup was held in 1880.

168. Ans. A.

On July 13, 1930, France defeats Mexico 4-1 and the United States defeats Belgium 3-0 in the first-ever World Cup football matches, played simultaneously in host city Montevideo, Uruguay.

169. Ans. D.

The Guinness World Records has declared Majuli in Assam as the largest river island in the world. It has toppled Marajo in Brazil to clinch the record. The beautiful river island is situated on the Brahmaputra river.

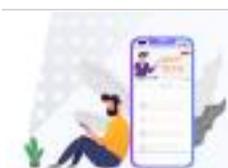
170. Ans. C.

Archery, the national sport of **Bhutan**, is a common feature of everyday life. It is played differently from the international game and is seen as a celebration of the country's way of life.

171. Ans. A.

Atharva veda contains hymns many of which were charms and magic spells which are meant to be pronounced by the person who seeks some benefit, or more often by a sorcerer who would say it on his or her behalf

172. Ans. D.



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Rest all are Maharatnas.

173. Ans. A.

Thumri

- Originated in Eastern Uttar Pradesh, mainly in Lucknow & Benares, around 18th century.
- A romantic & erotic style of singing; also called “the lyric of Indian classical music”.
- Compositions are mostly on love, separation and devotion.
- Distinct feature: Erotic subject matter portrayed picturesquely from the various episodes of the lives of Lord Krishna & Radha.

174. Ans. C.

The International Renewable Energy Agency (**IRENA**) is headquartered in Abu Dhabi.

175. Ans. A.

8 Greenland Is near Atlantic Ocean.

176. Ans. D.

Capital of Laos is Vientiane

177. Ans. C.

South Korea is known as land of morning calm

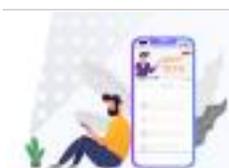
178. Ans. A.

National planning commission was established in 1950

179. Ans. D.

Black lead/plumbago is also known Graphite.

180. Ans. D.



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The French Air Force chose the SCALP EG variant of the missile with HE and penetrating warheads to be equipped on their Mirage 2000D and Rafale aircraft.

181. Ans. A.

It is related with Chess

182. Ans. B.

The Red Fort Complex was built as the palace fort of Shahjahanabad – the new capital of the fifth Mughal Emperor of India, Shah Jahan. Named for its massive enclosing walls of red sandstone, it is adjacent to an older fort, the Salimgarh, built by Islam Shah Suri in 1546, with which it forms the Red Fort Complex.

183. Ans. C.

Mahatma Gandhi said these lines.

184. Ans. A.

Wilson Jones, a dominant national amateur champion for more than a decade, won the amateur world championship twice, in 1958 and 1964. He was awarded the Arjuna Award in 1963, the Padma Shri Award in 1965, and the Dronacharya Award in 1996. He was the first Indian to be a World champion in any sport.

185. Ans. C.

Shooting is the national sports of Switzerland

186. Ans. A.

It is located on the floating Loktak Lake of Manipur, Keibul Lamjao National Park is the world's only floating national park

187. Ans. C.

The first man-made polymer is **Bakelite** in 1907

188. Ans. D.

Punisher / the lasvegas kid is the nickname of Andre Agassi.



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189. Ans. B.

Women participated for the first time at the 1900 Paris Games with the inclusion of women's events in lawn tennis and golf. Women's athletics and gymnastics debuted at the 1928 Olympics.

190. Ans. C.

Animal Farm, anti-utopian satire by George Orwell, published in 1945. One of Orwell's finest works, it is a political fable based on the events of Russia's Bolshevik revolution and the betrayal of the cause by Joseph Stalin.

191. Ans. D.

Bratislava is the capital of Slovakia.

192. Ans. B.

Larisa Latynina has won 18 Olympic medals, in TOTAL, 9 of them are GOLD.

193. Ans. D.

A jab is a type of punch used in the Boxing.

194. Ans. A.

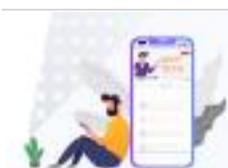
IST is 5.5 hours ahead of GMT. India is 5 hours and 30 minutes ahead of Greenwich Mean Time

195. Ans. A.

The indigo revolt (or Nil bidroha) was a peasant movement and subsequent uprising of indigo farmers against the indigo planters that arose in Chaugacha village of Nadia in Bengal in 1859.

196. Ans. B.

The water-soluble vitamins include ascorbic acid (vitamin C), thiamin, riboflavin, niacin, vitamin B6 (pyridoxine, pyridoxal, and pyridoxamine), folacin, vitamin B12, biotin, and pantothenic acid.



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197. Ans. A.

K. C. Neogy (1952-57) was the chairman of the first finance commission.

198. Ans. A.

Raigad fort was for a long time the capital of the Maratha empire. It is a hill fort that abuts the Sahyadri ranges.

199. Ans. C.

Dhuandhar falls is actually located on the Narmada river, one of the five holy rivers of India.

200. Ans. A.

The National Anthem of India Jana-gana-mana, composed originally in Bengali by Rabindranath Tagore, was adopted in its Hindi version by the Constituent Assembly as the National Anthem of India on 24 January 1950.

201. Ans. B.

Ravi Shankar born Robindro Shaunkor Chowdhury was an Indian sitarist and composer.

202. Ans. C.

The three largest producers of mineral oil or crude oil in India are **Rajasthan** (23.7%), Gujarat (12.5%), Assam (12.1%).

203. Ans. A.

The first female justice in the court was **Fathima Beevi** appointed on 6 October 1989.

204. Ans. B.

Bimbisara is considered as the main founder of the dynasty. He belonged to the lineage of the Mahabharat Era According to the Buddhist text, the Mahavamsa, Bimbisara was appointed king by his father, Bhattiya, at the age of fifteen. This dynasty was succeeded by the Shishunaga dynasty.

205. Ans. B.



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It was written in Persian, which is the literary language of the Mughals, and includes vivid and detailed descriptions of his life and times.

206. Ans. C.

The indigenously designed and developed Advanced Light Helicopter (ALH-DHRUV) is a twin engine, multi-role, multi-mission new generation helicopter in the 5.5 ton weight class. The basic Helicopter is produced in skid version and wheeled version. Dhruv is "type –Certified" for Military operations by the Centre for Military Airworthiness Certification (CEMILAC) and civil operations by the Directorate General of Civil Aviation (DGCA).

207. Ans. A.

The first Indian woman to ever win an Olympic medal was Karnam Malleswari who won a bronze medal at the 2000 Sydney Olympics in the Women's 69 kg category in Weightlifting

208. Ans. A.

Portuguese (1498) ,British (1600),Dutch (1602),Danish (1616),French (1664) is the correct sequence.

209. Ans. A.

The Montreal Protocol on Substances that Deplete the Ozone Layer (the Montreal Protocol) is an international agreement made in 1987. It was designed to stop the production and import of ozone depleting substances and reduce their concentration in the atmosphere to help protect the earth's ozone layer.

210. Ans. B.

The Red Fort Complex was built as the palace fort of Shahjahanabad – the new capital of the fifth Mughal Emperor of India, Shah Jahan. Named for its massive enclosing walls of red sandstone, it is adjacent to an older fort, the Salimgarh, built by Islam Shah Suri in 1546, with which it forms the Red Fort Complex.

211. Ans. C.

22 languages are there in 8th schedule. The 22 languages in the Eighth Schedule are Assamese, Bengali, Bodo, Dogri, Gujarati, Hindi, Kannada, Kashmiri, Konkani, Maithili,



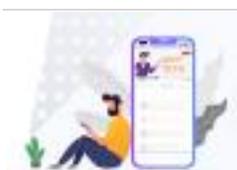
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Malayalam, Manipuri, Marathi, Nepali, Odia, Punjabi, Sanskrit, Santhali, Sindhi, Tamil, Telugu and Urdu.

212. Ans. A.

The Sardar Sarovar Dam is a concrete gravity dam built on the Narmada river in Navagam near Kevadiya, Narmada District , Gujarat in India.



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