

1. Ans. B.

- The radar term is a short form for **radio detection and ranging**, and in its simplest form, it has a transmitted radio signal targeted by the antenna in a particular direction, and a receiver that detects echoes from any object in the path of the signal.
- The transmitter contains an electronic circuit that oxygenates at a specific frequency.
- The radar makes it possible to set the direction of an object, usually referred to as the goal, depending on the direction the antenna is facing.

2. Ans. C.

In 1675, Guru Tegh Bahadur was executed on November 11 under the orders of Mughal emperor Aurangzeb in Delhi. With the rise in the political and physical influence of the institution of gravity, Sikh Gurus were seen as political rivals by the small states of the Mughal Empire. His influence and power were also visible to the Mughal emperor.

3. Ans. A.

Life Insurance Corporation of India (LIC) is an Indian state-owned insurance group and investment company, whose headquarter is in Mumbai. The Life Insurance Corporation of India was founded in 1956. It is India's largest insurance company. LIC's slogan is 'Yogekshemam vahamyahum' which is translated as "your welfare is our responsibility" in English.

4. Ans. D.

Helsinki is the capital of Finland and euro is the currency. Finland is called "Land of a thousand lakes", but in the last count, 187,888 of them were more lakes in respect to the size of any country compared to any country. Indeed, with a population of approximately five million, Finland has a lake for every 26 people. Most of the lakes are in an area that stretches from Kuopio in the north to Lahti in the south, from Tampere in the west to Punkharaju and the Russian border in the east.

5. Ans. A.

According to Article 53 of the Constitution of India, the President has the following executive powers:

Right to be aware of all matters of the country

The powers to appoint and remove high constitutional officers including Prime Minister and Council of Ministers Judges of the Supreme Court and High Courts, State Governors, Attorney General, Comptroller and Auditor General (CAG), and Chief Commissioners and members of the Election Commission are appointed on their name.

6. Ans. B.

Garbha

A popular folk dance in Gujarat is done by women on Holi, Sharad Purnima, Basant Panchami and Navratri. This name is derived from the Sanskrit word "womb", which means pregnancy and "deep" means a lamp. There are some more dance forms

Dandiya ras, Padhar nritya, tipni nritya.

7. Ans. C.

Islamic group Al-Qaeda founder and first leader Osama bin Laden was killed by the Navy Seal of the US Naval Special War Development Group (also known as DEVGRES or SEAL Team Six) in Pakistan on May 2, 2011.

8. Ans. C.

$$\begin{aligned} &= (5 + 2\sqrt{3})x(7 - 4\sqrt{3}) = a + b\sqrt{3} \\ &= 35 - 20\sqrt{3} + 14\sqrt{3} - 24 = a + b\sqrt{3} \\ &= 11 - 6\sqrt{3} = a + b\sqrt{3} \\ &= a=11, b = -6 \end{aligned}$$

9. Ans. A.

$$\text{Average speed of the whole journey} = \frac{2xy}{x+y}$$

$$\begin{aligned} &= \frac{2 \times 84 \times 56}{94 + 56} \end{aligned}$$

$$\frac{336}{5}$$

=67.2 ans.

10. Ans. D.

Correct sum= $(36*50+48-23) = 1825$

Correct average = $1825/50 = 36.5$

11. Ans. C.

Given

a:b= 2:3

b:c= 5:3

then,

a:b:c

2:3

5:3

= a:b:c = $2*5:3*5:3*3$

= 10:15:9

The sum of three numbers = $10x+15x+9x= 136$

= $34x = 136$

2nd number = $136/34*15= 60$ ans.

12. Ans. A.

45 men can do a work in = 16 days

1 man can do the same work in = $45*16$

Total work = 720 unit

45 men's work for 6 days = $45*6= 270$

Remaining work = $720 - 270$

= 450

Now men = $30 + 45 = 75$

Remaining work will complete in = $450 / 75 = 6$ days ans.

13. Ans. D.

Let P be the principal

Then simple interest = $P + (P * 10 * 3) / 100$

$P (1 + 30 / 100)$

$P * 130 / 100$ (1)

Compound interest:

$P * 110 / 100 * 110 / 100 * 110 / 100$

= $P * 1331 / 1000$ (2)

Given

(2) - (1) = 31

$P * 1331 / 1000 - P * 130 / 100 = 31$

$P * 31 / 1000 = 31$

P = 1000. ANS.

14. Ans. B.

LCM of 8, 12, 20, 25 = 600

Add 5 to the result = 605 ans.

15. Ans. C.

Let income = 100

Expenditure = 75

Savings = 25

New expenditure = $75 + 10\% (75) = 82.5$

New savings = $(12.5 / 50) \times 100 = 50\%$ ans.

16. Ans. A.

Aircraft	Origin
Mirage 2000	France
MiG-29	Soviet Union
Sukhoi Su-30	Russia
MiG-27	Soviet union

Mirage 2000's origin is france.

17. Ans. D.

instead of (D) all are the logo of schools

(D) sham no varuna- indian navy motto, and logo.

18. Ans. B.

study	very	hard	=	7	8	6
hard	work	pays	=	9	5	8
study	and	work	=	6	4	5

Clearly very = 7

19. Ans. D.

Multiply by 4 and subtract 2 alternatively.

1 4 2 8 6 24 22 88 86

$(1 \times 4), (4 - 2), (2 \times 4), (8 - 2), \dots, (22 \times 2), (88 - 2) = 86$ will be the next term.

20. Ans. B.

Let the no. of correct Ans be x

Incorrect Ans = $75-x$

Then we get $4x-(75-x) = 125$

$$5x-75 = 125$$

$$X = 200/5 = 40 \text{ ans.}$$

21. Ans. A.

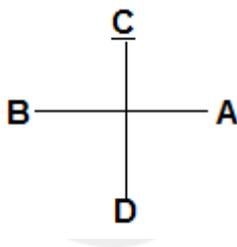
$$(5*2) + 11 = 21$$

$$(8*2) + 17 = 33$$

$$(7*2) + 15 = \underline{29}$$

22. Ans. A.

A and B are partners so they are facing each other.



23. Ans. C.

We afraid to danger so it involves fear.

24. Ans. C.

$$8 \div 2 - 3 \times 4 + 6 = 4 - 12 + 6 = -2 \text{ ans.}$$

25. Ans. A.

Doctor and lawyer both are professionals.

26. Ans. C.

1st step = water image

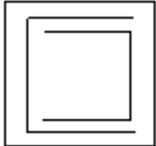
2nd step = 90° left rotation

3rd step = water image

Ans= 90° left rotation = c is following the sequence.

27. Ans. A.

Outer vessel rotating clockwise while inner is anticlockwise.



28. Ans. A.

Here decreasing order of triangles in the circle.

29. Ans. B.

Repeat figures alternately.

1st 3rd are same and 2nd and 4th are same so next figure would be like 1st one.