Welcome to Dhronas, your trusted partner in West Bengal Police Constable preparation. We understand the importance of a well-structured study plan, which is why we are excited to present you with the 'West Bengal Police Constable Question and Answer' resource. Aspiring candidates know the value of practicing with authentic previous year question papers, and that's precisely what we offer here. This resource provides invaluable insights into the exam's pattern, question types, and overall difficulty level. With our comprehensive answer key, you can self-assess and refine your preparation.

By reviewing this past paper, you not only become familiar with the types of questions that appear in the actual West Bengal Police Constable exam but also gain a deeper understanding of the exam's nuances. At Dhronas, we believe that a solid foundation in these previous year question papers is crucial for your success. Whether you are a first-time West Bengal Police Constable aspirant or looking to improve your score, this resource is an essential addition to your study toolkit. Use it to practice, track your progress, and enhance your exam strategy.

West Bengal Police Constable Question and Answer - Quant Questions

Q:1 A wire is bent in the shape of a right-angled triangle with a base of 16 cm and an area of 96 sq. cm. The same wire is now bent in the form of a square. Find the percentage increase/decrease in the area?

1. 50% decrease
2. 40% decrease
3. 50% increase
4. 40% increase

Q:2 Ratio of present ages of Tushar, Garima and Saurav is 5 : 7 : 4. If the sum of their ages after 9 years will be 139 years then what was the age of Garima 5 years ago?

1. 30 years
2. 37 years
3. 44 years
4. 36 years

Q:3 The average weight of six persons in a group is 55 kg. One of the persons whose weight is 50 kg leaves the group and a new person is joined them than the average reduced to 54.5 kg. Find the weight of the new person.

1. 50 kg
2. 47 kg
3. 54 kg
4. 48 kg

Q:4 A gives B a 200 m headstart and C a 300 m headstart in a race of 1 km and they finished the race in same time. How many metres headstart can B gives to C in a 1 km race so that they will finish the race in same time?

1. 175 m
2. 225 m
3. 125 m
4. 135 m

Q:5 Find the difference between 40% of 67 and 48% of 40.

1. 38/5
2. 36/5
3. 35/5
4. 40/5

Q:6 The sum of two positive integers is 34 and their difference is 8. Find their product.

1. 308
2. 273
3. 209
4. 345

Q:7 If the number of sides of a regular polygon is 8 then, find the sum of the interior angle.

1. 720°
2. 1080°
3. 540°
4. 270°

Q:8 Shivam alone and Deepak alone can finish a task in 6 hours and 10 hours respectively. Find the time taken by both of them together to do twice of the work?

1. 8 hours
2. 9 hours
3. 8.5 hours
4. 7.5 hours

Q:9 The ratio of age of Rahul and Vimal 4 years ago is 4 : 3. The ratio of sum and difference of their present age is 9 : 1. What will be the age of Vimal after 4 years?

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1. 16 years
2. 20 years
3. 18 years
4. 22 years

Q:10 If x + y = 12, y + z = 15 and x + z = 10. Find the value of x + y + z.

1. 37
2. 25
3. 18.5
4. 17.5

Q:11 Find the square root of the perfect square made by multiplying 4050 with a least positive integer.

1. 80
2. 90
3. 85
4. 95

Q:12 The perimeter of a rectangle is 28 cm. If the length is 5/2 times its breadth, find the length and breadth of the rectangle(in cm).

1. 9 & 5
2. 10 & 4
3. 6 & 7
4. 11 & 3

Q:13 A 173 m long train crosses a 727 m long bridge in 40.5 seconds. What is the speed of the train?

1. 70 km/h
2. 85 km/h
3. 80 km/h
4. 75 km/h

Q:14 A mixture A is formed after mixing petrol and oil in the ratio 5 : 3 and mixture B is formed after mixing 10 litres of petrol with 20 litres of oil. In what ratio should A and B mixed so that the ratio of petrol and oil in the final mixture will be in the ratio 8 : 3?

1. 5 : 4
2. 6 : 7
3. 6 : 5
4. 7 : 5

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Q:15 In an election, Ram gets 40% of votes and Ranu gets 60% of votes. If the total number of votes are 3500. Find the number of votes Ram get.

1. 2100
2. 3500
3. 1400
4. 2800

Q:16 The difference between compound interest and simple interest on Rs 1200 for 2 years is Rs 27. Find the rate of interest.

1. 12.5%
2. 15%
3. 18%
4. 10%

Q:17 An article was sold for Rs. 2100 at a profit of 25%. What is its cost price?

1. Rs. 1,620
2. Rs. 1,640
3. Rs. 1,660
4. Rs. 1,680

Q:18 A and B's salary is in ratio 3 : 7. If A's salary increase by 10% and B's salary increases by 20%, what will the new salary ratio?

1. 11 : 23
2. 11 : 27
3. 11 : 28
4. 9 : 28

Q:19 What is the value of P?

P = 1/ (3 × 7) + 1/ (7 × 11) + 1/ (11 × 15) + … + 1/ (71 × 75)

1. 8/15
2. 8/25
3. 4/25
4. 2/25

Q:20 A hemisphere of lead of diameter 14 cm is cast into a right circular cone of height 14 cm. The radius of the base of the cone is:

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1. 28 cm
2. 21 cm
3. 7 cm
4. 14 cm

Q:21 If the speed of a boat in still water is 25 km/hr and the speed of the current is 5 km/hr, then find the time taken by the boat to cover 135 km downstream.

1. 5 hour and 30 minutes
2. 4 hours
3. 5 hours
4. 4 hours and 30 minutes

Q:22 Two numbers are in the ratio 2 : 5 and their HCF is 18. Their LCM is:

1. 180
2. 36
3. 90
4. 188

Q:23 Tap A and B can fill an empty tank in 12 minutes and 15 minutes respectively. Both the taps are opened simultaneously but after 5 minutes a leak develops in the tank and it will take another 2 min to fill the tank. Then in how many minutes leak will empty the full tank?

1. 30 minutes
2. 48 minutes
3. 36 minutes
4. 40 minutes

Q:24 Mr. Kapur purchased two toy cycles for Rs 750 each. He sold these cycles, gaining 6% on one and losing 4% on the other. The gain or loss percent in the whole transaction is:

1. 1% loss
2. 1% gain
3. 1.5% loss
4. 1.5% gain

Q:25 If a number N is divided by 7, it gives a remainder 2. Which of the following will give a remainder zero, when divided by 7?

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1. (N + 2)
2. (N - 2)
3. (N + 4)
4. (N - 4)

Q:26 A trader by means of his false balance defrauds to the extent of 10% in buying goods and also defraud to 10% in selling. Find his gain percent.

1. (58/7)%
2. (400/15)%
3. (156/9)%
4. (200/9)%

Q:27 A box contains Rs 20 in the form of 1 rupee, 50 paise, and 10 paise coins in the ratio of 2 : 3 : 5. Find the number of 10 paise coins.

1. 25
2. 15
3. 20
4. 30

Q:28 A bike rider covers 175 km distance and returns upto 1/5th of that distance in total 7.5 hours. Find the average speed of the journey in m/s.

1. 50/3 m/s
2. 60/9 m/s
3. 70/9 m/s
4. 40/3 m/s

Q:29 N is the largest two digit number, which when divided by 3, 4 and 6 leaves the remainder 1, 2 and 4 respectively. What is the remainder when N is divided by 5?

1. 4
2. 2
3. 0
4. 1

Q:30 If y = (2x − 1)/(x + 3) Find x when y = 1.

1. 4
2. -4
3. 3/2
4. 4/3

West Bengal Police Constable Question and Answer - Quant Answers

Q:1 The correct answer is **Option 3 i.e. 50% increase**.

Area of triangle = 96 sq.cm
Base = 16 cm
Let height = h
Now, 1/2 × 16 × h = 96
Height = 12 cm
Hypotenuse = √ (122 + 162)
Hypotenuse = √400 = 20 cm
Perimeter = Length of wire = 20 + 16 + 12 = 48 cm
Perimeter of square = 48 cm
Side = 48/4 = 12 cm
Area = side × side = 12 × 12 = 144 sq.cm
Increase in area = 144 - 96 = 48 sq.cm
Percentage increase = (48/96) × 100 = 50%

Q:2 The correct answer is **option 3 i.e. 44 years**.

Suppose the present ages of Tushar, Garima and Saurav are 5x, 7x and 4x respectively.
Given: sum of their ages after 9 years will be 139 years
So,
(5x + 7x + 4x) + 9 × 3 = 139
16x = 139 − 27
16x = 112
x = 7
Hence, age of Garima 5 years ago = 7 × 7 − 5 = 44 years.

Q:3 The correct answer is **option 1 i.e. 47 kg**.

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Understanding
Average = sum of total weight/total number of the person
Application
The sum of six-person = 6 × 55 = 330 If one of persons whose weight 50 kg leaves then the sum of the weight of 5 person = 330 - 50 = 280 kg. let the weight of new person = x kg The sum of six-person = 280 + x A/Q, The new average = 54.5 kg So, the sum of six person = 6 × 54.5 = 327 kg Now, 280 + x = 327 x = 47 kg

Q:4 Correct answer is **Option 3 i.e. 125 m**.

Concept	Application	Fair Calculation
	Since A gives B 200 m startup ∴ When A covers 1000 m, B covers 800 m	
	∴ Ratio of speeds of A and B	1000 : 800 = 10 : 8
Time, Speed and Distance based on race	Since A gives C 300 m startup ∴ When A covers 1000 m, C covers 700 m	
	∴ Ratio of speeds of A and C	1000 : 700 = 10 : 7
	Ratio of speed of A, B and C	10 : 8 : 7
	∴ In 1000 m race startup can be given by B to C	1/8 × 1000 = 125 m

Q:5 The correct answer is **option 1 i.e. 38/5**.

40% of 67 = 40/100 × 67 = 134/5   48% of 40 = 96/5   Difference = 134/5 - 96/5 = 38/5

Q:6 The correct answer is **option 2 i.e. 273**.

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Understanding/Application
Given,   A + B = 34 ....(i)   A - B = 8 ....(ii)   Add equation (i) and (ii)   A + B + A - B = 34 + 8   2A = 42   A = 42/2 = 21   Put value of A in equation (i)   B = 34 - A = 34 - 21 = 13   Hence, A × B = 21 × 13 = 273

Q:7 The correct answer is **option 2 i.e. 1080º**.

Understanding	Application
The sum of the interior angles of a polygon is: 180º (n − 2), where n represents the number of sides. No. of the side of the polygon = 8	Sum of the interior angle = 180º (n − 2) =180º (8 − 2) = 180º × 6 = 1080º

Q:8 The correct answer is **Option 4 i.e. 7.5 hours**.

Understanding	Application
Shivam alone and Deepak alone can finish a task in 6 hours and 10 hours respectively.	Suppose Total work = 30 units (LCM of 6 and 10)
Efficiency = Work/Time	So, Efficiency of Shivam = 30/6 = 5 Efficiency of Deepak = 30/10 = 3
Since they need to complete twice the work i.e. 60 units.	Hence, Time required to them together = 60/(5 + 3) = 7.5 hours

Q:9 The correct answer is **option 2 i.e. 20 years**.

Let present age of Rahul be x
And present age of Vimal be y.
4 years ago, ratio of age = 4 : 3
i.e. (x - 4)/(y - 4) = 4/3
3x - 12 = 4y -16
4y - 3x = 4 ------ (1)
Also, ratio of sum and difference of their present age = 9 : 1
i.e. (x + y)/(x - y) = 9/1
x + y = 9x - 9y
10y = 8x
or, 5y = 4x ------ (2)
Solving equation (1) & (2):
y = 16 years
x = 20 years.
Hence, present age of Vimal is 16 years
So, after 4 years, age of Vimal will be 16 + 4 = 20 years

Q:10 Correct answer is **option 3 i.e. 18.5**.

$\Rightarrow x + y = 12$ $\Rightarrow y + z = 15$ $\Rightarrow x + z = 10$ Adding these three equations, we get, $\Rightarrow 2(x + y + z) = 12 + 15 + 10 = 37$ $\Rightarrow x + y + z = 37/2 = 18.5$

Q:11 The correct answer is **option 2 i.e. 90**.

Understanding
$4050 = 2 \times 32 \times 32 \times 52$ So, the number 4050 must be multiplied by 2 to made it a perfect square Then, $4050 \times 2 = 8100$ So, square root of 8100 is 90

Q:12 Correct Answer is **option 2 i.e. 10 & 4**.

Understanding	Application	Calculation
Length is 5/2 times its breadth	Suppose, Breadth = x Length = 5x/2	
The perimeter of the rectangle is 28 cm.	So, $2 \times (x + 5x/2) = 28$ $\Rightarrow x = 4$	$2 \times (x + 5x/2) = 28$ $\Rightarrow 2 \times 7x/2 = 28$ $\Rightarrow 4$
Now, x = 4	Hence, Length = 4 × 5/2 = 10 Breadth = 4	

Q:13 The correct answer is **Option 3 i.e. 80 km/h**.

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speed = (distance/time)
the train covered its own distance as well as the bridge distance.
so the total distance covered by the train = 173 + 727 = 900 m
speed = (900/40.5) m/s = (900 × 18)/(40.5 × 5) km/hr = 80 km/hr

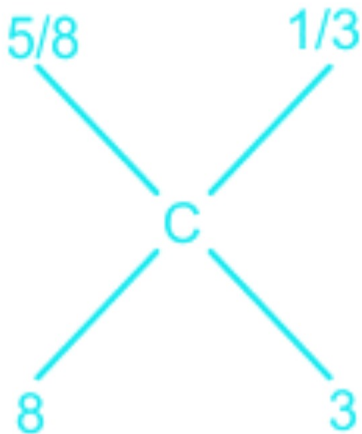**Q:14** The correct answer is **option 3 i.e. 6 : 5**.

Part of petrol in mixture A = 5/8
Part of petrol in mixture B = 10/30 = 1/3
Suppose part of petrol in final mixture = C
By the rule of allegation:

$$\begin{array}{ccc} 5/8 & & 1/3 \\ & C & \\ 8 & & 3 \end{array}$$

So,
[(1/3) − C] : [C − (5/8)] = 8 : 3
⇒ 1 − 3C = 8C − 5
⇒ 11C = 6
⇒ C = 6/11
Hence,
Ratio of petrol to oil in mixture C = 6 : (11 − 6) = 6 : 5

Q:15 Correct answer is **Option 3 i.e. 1400**.

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Total number of votes = 3500
Ram gets 40% of votes.
⇒ 40% of 3500 = 40/100 × 3500 = 1400

Q:16 The correct answer is **option 2 i.e. 15%**.

Understanding
Rate% = √[(Compound Interest - Simple Interest)/Principal amount] × 100
Application
Given C.I - S.I = 27 P = 1200 R% = √(27/1200) × 100 = (3/20) × 100 = 15%

Q:17 The correct answer is **option 4 i.e. Rs 1680**.

Understanding/Application
CP = 100% SP = (100 + 25)% = Rs 2100 Hence, CP = 100% = (2100/125)100 = 16.8 × 100 = Rs 1680

Q:18 The correct answer is **option 3 i.e. 11 : 28**.

Application
Let A's and B's salary be 3x and 7x A's increased salary = 3x + 10% of 3x = 3.3x B's increased salary = 7x + 20% of 7x = 8.4x Required ratio = 3.3x : 8.4x = 11 : 28

Q:19 Correct answer is **Option 4 i.e. 2/25**.

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P = 1/ (3 × 7) + 1/ (7 × 11) + 1/ (11 × 15) + … + 1/ (71 × 75)

4P = {4/ (3 × 7) + 4/ (7 × 11) + 4/ (11 × 15) + … + 4/ (71 × 75)}

4P = {(7 − 3) / (3 × 7) + (11 − 7) / (7 × 11) + (15 − 11) / (11 × 15) + … + (75 − 71) / (71 × 75)}

4P = 1/3 − 1/7 + 1/7 − 1/11 + 1/11 − 1/15 + …+ 1/71 − 1/75

Cancelling all terms

4P = 1/3 − 1/75

4P = (25 − 1) /75

4P = 24/75

P = 6/75

P = 2/25

Q:20 The correct answer is **Option 3 i.e. 7 cm**.

Concept	Application
Volume of hemisphere = $(2/3)\pi R^3$ volume of cone = $(1/3)\pi r^2 h$	volume of cone = volume of the hemisphere $(1/3)\pi r^2 h = (2/3)\pi R^3$ $\Rightarrow r^2 \times 14 = 2 \times 7^3$ $\Rightarrow r = 7$ cm

Q:21 The correct answer is **option 4 i.e. 4 hours and 30 minutes**.

Understanding	Application
The relative speed boat in downstream = The speed of the boat + the speed of the current Relative speed = Distance/time	Relative speed = 25 + 5 = 30 km/hr Time taken to cover 135 km = 135/30 = 9/2 = 4.5 hours

Q:22 The correct answer is **option 1 i.e. 180**.

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Understanding/Application
Ratio of number = 2 : 5 HCF = 18 1st Number = 2 × 18 = 36 2nd number = 5 × 18 = 90 LCM of 36 and 90 is: 36 = 22 × 32 90 = 2 × 32 × 5 LCM = 22 × 32 × 5 = 180

Q:23 The correct answer is **option 4 i.e. 40 minutes**.

Understanding
Given, Tap A = 12 min Tap B = 15 min Capacity of tank = LCM of 12 and 15 = 60 liters Efficiency of Tap A = 60/12 = 5 Efficiency of Tap B = 60/15 = 4 In 5 min work, (A + B) = [(5 + 4) × 5] = [9 × 5] = 45 liters
Application
Now, Remaining work = 60 - 45 = 15 It will done by (A + B + C) = Remaining work/time = 15/2 = 7.5 Efficiency of (A + B + C) = 7.5 Efficiency of C = 7.5 - Efficiency of (A + B) = 7.5 - 9 = - 1.5 {negative due to work as negative} C will empty the tank = Total capacity/Efficiency of C = 60/1.5 = 40 minutes

Q:24 The correct answer is **option 2 i.e. 1% gain**.

Total Cost Price of 2 toy cycles = 2 × 750 = 1500
Total Selling Price of 2 toy cycles = 750 ×
106/100 + 750 × 96/100 = 795 + 720 = 1515
Here, Cost Price < Selling Price, so,
Gain% = (1515 - 1500)/1500 × 100 = 1%

Q:25 Correct Answer is **option 2 i.e. (N – 2)**.

Understanding	Application
When N is divided by 7, it gives a remainder 2	So we can write: N = 7x + 2 That means (N – 2) must be divisible by 7.
	Hence, (N – 2) When divided by 7, will give remainder 0.

Q:26 The correct answer is **Option 4 i.e. (200/9)%**.

Concept	Application
Profit and loss CP = Cost price SP = Selling price	Let the actual CP of an article be Rs. 1, then the effective CP = 100/110 = 10/11 (Since he purchases 110 articles by paying Rs. 100) again SP = (100/90) = 10/9 (Since he sells only 90 articles charging the CP of 100 articles) so, gain% = {(SP - CP)/CP} × 100 = 200/9%

Q:27 The correct answer is **option 1 i.e. 25**.

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Understanding
Let, 1 rupee = 2x 50 paise = 3x 10 paise = 5x

Application
$\Rightarrow 2x + 3x/2 + 5x/10 = 20$ $\Rightarrow 4x + 3x + x = 20 \times 2$ $\Rightarrow 8x = 40$ $\Rightarrow x = 5$ So, 10 Paise coins = 5x = 5 × 5 = 25

Q:28 The correct answer is **option 3 i.e. 70/9 m/s**.

Application
From the question: Total distance covered by the bike rider = 175 + 175/5 = 175 + 35 = 210 km Total time = 7.5 hours So, Average speed of the journey = 210/7.5 = 28 km/h = 28 × 5/18 = 70/9 m/s

Q:29 The correct answer is **option 1 i.e. 4**.

Negative remainder = 1 - 3 = -2 = 2 - 4 = -2 = 4 - 6 = -2 N = LCM(3, 4, 6) - 2 = 12 × k = -2 = k = 8 $\Rightarrow 12 \times 8 - 2 = 99$ = 94/5 = 4 (remainder)

Q:30 Correct answer is **Option 1 i.e. 4**.

Concept	Understanding	Application
Algebra	Put y = 1 in equation	Given $y = (2x - 1)/(x + 3)$ $\Rightarrow 1 = (2x - 1)/(x + 3)$ $\Rightarrow 2x - 1 = x + 3$ $\Rightarrow x = 4$

West Bengal Police Constable Question and Answer - Reasoning Questions

Q:1 Select the number that can replace the question mark (?) in the following series.
32, 48, 72, 108, ?, 243

1. 162
2. 159
3. 157
4. 161

Q:2
Direction: Study the following data carefully and answer the question accordingly.
47JDP8 34NRL7 68GHQ9 93YVJ7 27CSK8
If all the letters are arranged in English alphabetical order from left to right within each set, then what will be the sum of the place values of the second alphabet from the right end in all the sets?

1. 86
2. 65
3. 119
4. 472

Q:3 Which letter cluster will replace the question mark (?) in the following series?
PWF, QTK, RQP, SNU, TKZ,?

1. UHE
2. UFG
3. UEH
4. UGF

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Q:4 In the following question, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
ac _ bd _ ce _ df _ egh

   1. d, f, g, e
   2. b, d, c, a
   3. d, g, f, e
   4. d, e, f, g

Q:5 Select the option that is related to the third term in the same way as the second term is related to the first term.
5 : 22 :: 7 : ? :: 9 : 74

   1. 43
   2. 42
   3. 44
   4. 47

Q:6 Select the related word pair from the given alternatives.

   1. Entomology: Insects::?
   2. Physiology: Plants
   3. Virology: Fungi
   4. Phycology: Algae
   5. Oology: Shells

Q:7 Select the option which has the same relation between the words as it is between the words of the given pair.
Flower : Jasmine

   1. Color: Blue
   2. Pencil: Geometry
   3. Fruit: Leaves
   4. Arithmetic: Calculator

Q:8 Four letter clusters have been given out of which three are alike in some manner, while one is different. Choose the odd one

   1. CFJ
   2. GJM
   3. TWZ
   4. DGJ

Q:9 If 62#51 = 0, 82#54 = 5 then find the value of 72#66 = ?

1. 7
2. 10
3. 12
4. 5

Q:10 In a certain code language, 'TABLE' is written as 'ATBEL'. What is the code for 'CHAIR' in that code language?

1. RIAHC
2. HCARI
3. CHARI
4. HCAIR

Q:11 A − B means 'A is the mother of B'; A × B means 'A is the sister of B'; A ÷ B means 'A is the daughter of B'. Which of the following expressions means 'U is the daughter of Q'?

1. Q − Z ÷ U × K
2. Q − Z × U ÷ K
3. K − Z ÷ U × Q
4. K − U ÷ Z × Q

Q:12 Six friends A, B, C, D, E, and F play a card game. After the game finishes, everyone gets rank. A gets higher rank than five others. F gets the lowest rank. D gets higher rank than E but lower than B. C gets lower rank than B and E. How many persons are ranked between B and C?

1. 1
2. 2
3. 3
4. 4

Q:13 Rajkiran starts walking from his home and goes 480m towards the south. Then he turns right and walks 165m. He again turns right and walks 210m. He finally turns left and walks 120m to reach the garden. How far is he now from his office which is 270m south of his home?

1. 165m
2. 330m
3. 285m
4. 265m

Q:14 Select the option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.
1. Inharmonious
2. Injudicious
3. Ingenious
4. Inhospitable
5. Inheritance

1. 3, 1, 2, 5, 4
2. 3, 1, 5, 4, 2
3. 3, 1, 5, 2, 4
4. 3, 2, 4, 1, 5

Q:15 Find out the two signs to be interchanged for making the following equation correct:
6 ÷ 5 + 12 x 4 - 7 = 26

1. ÷ and x
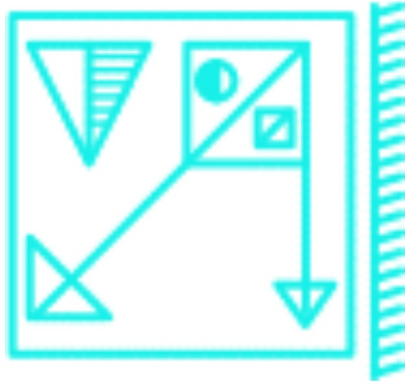2. + and x
3. + and -
4. ÷ and -

Q:16 In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives.
6 13 51
4 7 24
9 11 ?

1. 61
2. 16
3. 17
4. 90

Q:17 Select the correct mirror image of the given figure when a mirror is placed on the right side of the figure.

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1.

2.

3.

4.

Q:18 How many triangles are there in the given figure?

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1. 15
2. 20
3. 10
4. 23

Q:19 Choose the figure that is the best representation of the relationship shared by the three given entities:
Square, Rectangle, Triangle

1.

2.

3.

4.

Q:20 Gopi, Piyush, Mohan, Rahul, Shreya and Monika are sitting in a row. Shreya and Monika are in the centre. Gopi and Piyush are at the end. Mohan is sitting to the immediate left of Gopi. Who is to the immediate right of Piyush?

1. Rahul
2. Monika
3. Gopi
4. Shreya

West Bengal Police Constable Question and Answer - Reasoning Answers

Q:1 The correct answer is **option 1 i.e. 162**.

Understanding
The pattern followed here is 243 = 3 x 3 x 3 x 3 x 3 162 = 3 x 3 x 3 x 3 x 2 108 = 3 x 3 x 3 x 2 x 2 72 = 3 x 3 x 2 x 2 x 2 48 = 3 x 2 x 2 x 2 x 2 32 = 2 x 2 x 2 x 2 x 2

Q:2 The correct answer is **option 2 i.e. '65'**.

Understanding	Application
47JDP8 34NRL7 68GHQ9 93YVJ7 27CSK8	After rearrangement- 47DJP8 34LNR7 68GHQ9 93JVY7 27CKS8 Second alphabet from right end in each set - J N H V K Sum of place values - 10 + 14 + 8 + 22 + 11 = 65

Q:3 The correct answer is **option 1 i.e UHE**.

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Understanding
Given series: PWF, QTK, RQP, SNU, TKZ,? The logic used here is: PWF, QTK, P + 1 = Q W - 3 = T F + 5 = K Similarly, TKZ,? T + 1 = U K - 3 = H Z + 5 = E The next term in the series is UHE. Hence, option 1 is the correct answer.

Q:4 The correct answer is **Option 4 i.e. d, e, f, g**.

Understanding
Given series: ac __bd __ce__df__egh Logic: Set of three letters are formed, 1st letter: a + 1 = b; b + 1 = c, and so on 2nd letter: c + 1 = d; d + 1 = e, and so on 3rd letter: d + 1 = e; e + 1 = f, and so on a c d / b d e / c e f / d f g / e g h

Q:5 The correct answer is **option 3 i.e 44**.

Understanding	Application
The logic used here is: 5 : 22 5 × (5 - 1) + 2 = 22 9 : 74 9 × (9 - 1) + 2 = 74	Similarly, 7 : ? 7 × (7 - 1) + 2 = 44 Hence, option 3 is the correct answer.

Q:6 The correct answer is **option 3 i.e. Phycology: Algae**.

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Understanding	Application
Entomology is the study of insects.	Similarly, Phycology is the study of algae. Hence, option 3 is the correct answer.

Q:7 The correct answer is **option 1 i.e Color: Blue**.

Understanding	Application
Jasmine is a type of flower.	Similarly, Blue is a type of colour. Hence, option 1 is the correct answer.

Q:8 The correct answer is **option 1 i.e. CFJ**.

Understanding	Application
The logic used here is: Option 2: GJM G + 3 = J J + 3 = M Option 3: TWZ T + 3 = W W + 3 = Z Option 4: DGJ D + 3 = G G + 3 = J	Similarly, Option 1: CFJ C + 3 = F F + 4 = J CFJ is the odd one out. Hence, option 1 is the correct answer.

Q:9 The correct answer is **option 4 i.e. 5**.

Concept	Understanding
Coding-Decoding	The pattern followed here is 62#51 = (6 − 5) − (2 − 1) = (1) − (1) = 0 82#54 = (8 − 5) − (2 − 4) = (3) − (- 2) = 5 Similarly 72#66 = (7 − 6) − (2 − 6) = (1) − (- 4) =5

Q:10 The correct answer is **option 2 i.e HCARI**.

Understanding	Application
The logic used here is: 'TABLE' is written as 'ATBEL' T A B L E A T B E L	Similarly, Code for the word CHAIR: C H A I R H C A R I Hence, option 2 is the correct answer.

Q:11 The correct answer is **option 2 i.e Q − Z × U ÷ K**.

Understanding	Application
In the diagram shown; Q — K Z — U (Q and Z circles, K and U squares with connecting lines) Square shows males, the circle shows females, vertical lines show generations, a single horizontal line shows brothers or sisters and double lines show a couple.	Thus considering the figure, Q − Z × U ÷ K means 'U is the daughter of Q'. Considering all the four options the most appropriate is option 2.

Q:12 The correct answer is **option 2, i.e. 2**.

Understanding
1. A gets higher rank than five others. 2. F gets the lowest rank. A > _ > _ > _ > _ > F 3. D gets higher rank than E but lower than B. 4. C gets lower rank than B and E. A > B > D > E > C > F Thus, two persons are ranked between B and C.

Q:13 The correct answer is **option 3 i.e 285 m**.

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Understanding
Using the above information we can draw the following diagram:
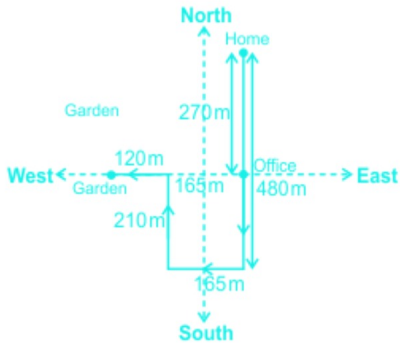
The distance from his office to his current position is 120 + 165 = 285m
Hence, option 3 is the correct answer.

Q:14 The correct answer is **option 2 i.e 3, 1, 5, 4, 2**.

Understanding
In this question, you need to arrange the words as they would appear in an English dictionary.   So the arrangement is;   1. Ingenious   2. Inharmonious   3. Inheritance   4. Inhospitable   5. Injudicious

Q:15 The correct answer is **option 2 i.e ÷ and x**.

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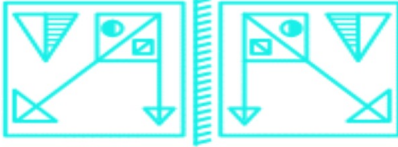| Understanding |
|---|
| Given Equation: 6 ÷ 5 + 12 x 4 - 7 = 26
Check all the options:
Option 1: ÷ and x
After replacement the equation becomes;
= 6 x 5 + 12 ÷ 4 - 7
= 26 is equal to 26.
Hence, option 1 is the correct answer. |
| Option 2: + and x
After replacement the equation becomes;
= 6 ÷ 5 x 12 + 4 - 7
= 11.4 is not equal to 26.
Hence, option 2 is not the correct answer. |
| Option 3: + and -
After replacement the equation becomes;
= 6 ÷ 5 - 12 x 4 + 7
= -39.8 is not equal to 26.
Hence, option 3 is not the correct answer. |
| Option 4: ÷ and -
After replacement the equation becomes;
= 6 - 5 + 12 x 4 ÷ 7
= 7.85 is not equal to 26.
Hence, option 4 is not the correct answer. |

Q:16 The correct answer is **option 4 i.e 90**.

Understanding	Application
The logic used here is: Row 1: 13 × 6 - 6 = 72 Row 2: 4 × 7 - 4 = 24	Similarly, Row 3: 9 × 11 - 9 = 90 Hence, option 4 is the correct answer.

Q:17 The correct answer is **option 1**.

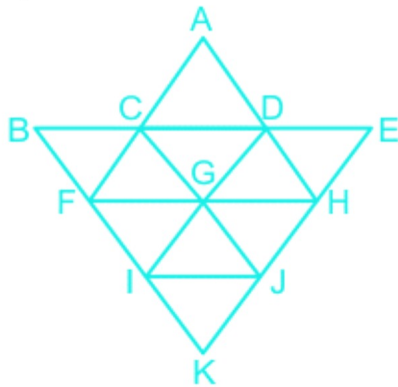| Understanding |
|---|
| The mirror image of the given figure along mirror is shown below: Note: Since the mirror is placed vertically beside the question figure, the image will be formed by inverting the question figure horizontally about the mirror. That means the left side of the figure will become the right side and vice versa. |

Q:18 The correct answer is **option 1**.

Understanding
The total number of triangles in the question figure is as shown below: ACS, BCF, CFG, CGD, DHG, DHE, FGI, GIJ, GHJ, IJK, BKE, AFH, FHK, CJE, BDI Hence, there are 15 triangles.

Q:**19** The correct answer is **option 1**.

Understanding

Square, Rectangle and Triangle are three different figures.
All Squares are Rectangles.
Thus, option 1 represents the best relationship between the given entities, as shown below:

Q:20 The correct answer is **option 1 i.e Rahul**.

Understanding

The following diagram can be made from the question:

From the above arrangement, Rahul is to the right of Piyush.

Hence, option 1 is the correct answer.

West Bengal Police Constable Question and Answer - GK Questions

Q:1 Who is leading Indian Women Hockey Team in Hockey World Cup 2022?

1. Rani Rampal
2. Ishika Chowdhury
3. Bichu Devi Kharibam
4. Savita Punia

Q:2 Which of these is used to break the circuit or to close the electric circuit?

1. Switch
2. Wire
3. Cell
4. Bulb

Q:3 The DPT vaccine is used for which infectious disease in humans?

1. Diphtheria
2. Pertussis
3. Tetanus
4. All of the above

Q:4 Pulicat wildlife sanctuary is present in which of the Indian state?

1. Andhra Pradesh
2. Tamil Nadu
3. Karnataka
4. West Bengal

Q:5 Who has never been a Vice President of India?

1. Mohammad Hamid Ansari
2. A. P. J. Abdul Kalam
3. Ramaswamy Venkataraman
4. Sahnkar Dayal Sharma

Q:6 United Nations summit on biodiversity will be held in

1. China
2. Russia
3. Canada
4. South Africa

Q:7 Recently, Tarun Majumder passed away. He was a veteran

1. Novelist
2. Filmmaker
3. Social Activist
4. Politician

Q:8 Who was in charge of the health portfolio in the first cabinet of independent India?

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1. Baldev Singh
2. B. R. Ambedkar
3. Raj Kumari Amrit Kaur
4. John Mathai

Q:9 Which of the following is NOT an example of an Ionic bond?

1. NaCl
2. HCl
3. LiF
4. KCl

Q:10 Which among the following is an example of Sedimentary Rocks?

1. Shale
2. Basalt
3. Granite
4. Gabbro

Q:11 The Nobel Prize is awarded in 6 categories each year. Which of the following is not one of them?

1. Mathematics
2. Literature
3. Physics
4. Economics

Q:12 Which of the following Sufi order was the most orthodox?

1. Chishti
2. Qadiri
3. Sarwari Qadri
4. Naqshbandi

Q:13 Who among the following was the Prime Minister of India when the Mandal Commission was constituted?

1. Manmohan Singh
2. Atal Bihari Vajpayee
3. VP Singh
4. Morarji Desai

Q:14 What is the function of Stems in plants?

1. transportation of nutrients
2. absorption of water and nutrients
3. make food
4. allow the plant to breathe

Q:15 Who among the following won the 13th Chennai Open International Grandmaster Chess Tournament 2022?

1. Boris Savchenko
2. Aronyak Ghosh
3. Sreeja Seshdhari
4. Tania Sachdev

Q:16 India signs a deal with which country for procurement of 70,000 AK-203 assault rifles?

1. USA
2. Russia
3. Germany
4. Japan

Q:17 A small forest in which the state of India is named after the woman who watches over it?

1. Uttar Pradesh
2. Madhya Pradesh
3. Mizoram
4. Odisha

Q:18 Which is the largest river island in the world?

1. Srirangam Island
2. Majuli Island
3. Bhavani Island
4. Agatti Island

Q:19 Which of the following territories was the first to be a part of India after independence?

1. Puducherry
2. Dadra and Nagar Haveli
3. Sikkim
4. Goa

Q:20 National Arts Awards recognizes and celebrates the achievements of Arts leaders across the _____.

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1. USA
2. India
3. France
4. Australia

Q:21 What is the atomic number of Radium?

1. 81
2. 88
3. 92
4. 105

Q:22 Odisha Day, celebrated on April 1 is also known as _____.

1. Mitkal Divas
2. Utkal Divas
3. Odia Divas
4. Ritikal Divas

Q:23 Hampi was the capital of which kingdom?

1. Vijayanagar
2. Bijapur
3. Golconda
4. Bidar

Q:24 Which team won the Federation Cup Football Tournament the most number of times?

1. Mohun Bagan AC
2. East Bengal FC
3. Salgaocar SC
4. Bengaluru FC

Q:25 Magnification of a lens can be calculated by?

1. the height of an image/the height of an object
2. the height of an object/the height of an image
3. the height of an image multiplied by the height of an object
4. none of these

Q:26 When is World Elder Abuse Awareness Day 2022 celebrated?

1. June 15
2. May 11
3. April 28
4. April 13

Q:27 Who became the Nawab of Bengal after the death of Alivardi Khan in 1756?

1. Mir Jafar
2. Murshid Quli Khan
3. Siraj ud-Daulah
4. Sujan Khan

Q:28 Terylene is a polymer obtained from?

1. Ethylene glycole and glycerol
2. Ethylene glycole and glyceraldehyde
3. Ethylene glycole and terephthalic acid
4. None of these

Q:29 Surendranath Banerjee and Ananda Mohan Bose founded _____ in Bengal in 1876.

1. Tathaghat Association
2. Indian Association
3. Oriental Association
4. Bengal Association

Q:30 What is the pH of Vinegar?

1. 2-3
2. 4-5
3. 0-1
4. 1-2

Q:31 Name the first actor to win the Oscar Awards.

1. Lionel Barrymore
2. Emil Jannings
3. Charlie Chaplin
4. Warner Baxter

Q:32 Who is the implementing partner of the NDC -Transport Initiative for Asia (NDC-TIA) project in India?

1. WTO
2. NITI Aayog
3. CCEA
4. GAIL

Q:33 Article 17 of the Constitution of India deals with the abolition of _____.

1. Untouchability
2. Titles
3. Slavery
4. Sati

Q:34 Which of the following is also known as Group Zero?

1. Group 4
2. Group 14
3. Group 18
4. Group 2

Q:35 Which of the following is the first supercomputer of India?

1. Prathush
2. PARAM 8000
3. Mihir
4. PARAM Padma

Q:36 'Ghiyas ud din Balban' belongs to which of the following dynasty?

1. Mamluk dynasty
2. Chola Dynasty
3. Chera Dynasty
4. Chaulakya Dynasty

Q:37 In which city will be the 2022 Commonwealth Games be played?

1. Glasgow
2. Birmingham
3. Gold Coast
4. New Delhi

Q:38 Pylorus found in which part of the human body?

1. Stomach
2. Liver
3. Kidney
4. Brain

Q:39 Indian sportsperson Lakshya Sen is a _____ player.

1. judo
2. badminton
3. kabaddi
4. wrestling

Q:40 Which country is the largest oil exporter to India?

1. Russia
2. Iraq
3. Iran
4. Saudi Arabia

Q:41 What is the full form of the "UMANG" app developed by the Government of India?

1. Unified Mobile App for New-Age Governance
2. Unifiication of Mobile Advertisement for New-Age Governance
3. Unified Mobile Assistance for New-Age Government
4. Unifiable Mobile App for New-Age Government

Q:42 Deficiency of which Vitamin is the cause of Rickets?

1. A
2. B
3. C
4. D

Q:43 What does the 103rd constitutional amendment deal with?

1. Women's reservation
2. Economic reservation
3. Right to education
4. Right against exploitation

Q:44 When was the first battle of the Carnatic war fought?

1. 1746 - 1750
2. 1749–1754
3. 1746 – 1748
4. 1758 – 1763

Q:45 What is the penetrating power of Alpha particles?

1. very low
2. intermediate
3. very high
4. none of these

Q:46 Which of the following layers of the Esophagus separates the body from the food being digested inside?

1. Mucosa
2. Submucosa
3. Muscularis
4. Adventitia

Q:47 Which of the following best describes the nature of the Indian economy?

1. Mixed Economy
2. Communist Economy
3. Capitalistic Economy
4. Socialist Economy

Q:48 The quote "Bombs and pistols do not make a revolution. The sword of revolution is sharpened on the whetting-stone of ideas" belongs to which of the following freedom fighters?

1. Lala Lajpat Rai
2. Bal Gangadhar Tilak
3. Subhash Chandra Bose
4. Bhagat Singh

Q:49 From where the Short-Range Ballistic Missile, Prithvi-II was launched?

1. Satish Dhawan Space Centre
2. Visakhapattanam
3. Sriharikota
4. Chandipur

Q:50 Which of the following portals identify unorganised workers across the nation?

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1. e-MANDHAN
2. SHRAMYOGI
3. e-SHRAM
4. SHRAMIK

West Bengal Police Constable Question and Answer - GK Answers

Q:1 The correct answer is **option 4 i.e. Savita Punia**.

- Goalkeeper Savita Punia will continue to lead the Indian Women Hockey Team in 2022.
- The Hockey World Cup will be jointly co-hosted by the Netherlands and Spain from July 1 to 17.

Q:2 The correct answer is **option 1 i.e. Switch**.

> - Electric switch, the device for opening and closing electrical circuits under normal load conditions, usually operated manually.
> - There are many designs of switches; a common type—the toggle, or tumbler, switch—is widely used in home lighting and other applications.

Q:3 The correct answer is **option 4 i.e. All of the above**.

> - The DPT vaccine is a class of combination vaccines against three infectious diseases in humans: diphtheria, pertussis, and tetanus.
> - The vaccine components include diphtheria and tetanus toxoids and either killed whole cells of the bacterium that causes pertussis or pertussis antigens.

Q:4 The correct answer is **Option 1 i.e. Andhra Pradesh**.

STATE	WILDLIFE SANCTUARY
Andhra Pradesh	1. Nagarjuna Sagar Srisailam 2. Eturnagaram 3. Kolleru 4. Pulicat

Q:5 The correct answer is **option 2 i.e. A. P. J. Abdul Kalam**.

• A. P. J. Abdul Kalam was an aerospace scientist who served as the 11th President of India from 2002 to 2007. He was born and raised in Rameswaram, Tamil Nadu and studied physics and aerospace engineering. • He has never been a Vice President of India.
• Mohammad Hamid Ansari: Vice President of India (2007–2017) • Ramaswamy Venkataraman: 7th Vice President of India (1984 – 1987) • Shankar Dayal Sharma: 8th Vice President of India (1987 – 1992)

Q:6 The correct answer is **option 3 i.e. Canada**.

• United Nations summit on biodiversity will be held in Canada instead of China.
• The international event is to be moved from China because of its strict anti-coronavirus policies.
• The biodiversity summit is similar to the more well-known U. N. climate summit. Countries that have joined a global agreement on preserving the world's plant and animal species meet regularly to try to achieve the goals laid out in the pact.

Q:7 The correct answer is **option 2 i.e. Filmmaker**.

• Veteran filmmaker Tarun Majumdar passed away. He was known for his sensitive portrayal of middle-class life and the human condition and is a four-time National Award winner and a Padma Shri conferree.
• Some of Majumdar's well-known films are Balika Badhu (1967), Kuheli (1971), Shriman Prithviraj (1973), Fuleswari (1974), Dadar Kirti (1980), Bhalobasa Bhalobasa (1985), and Apan Amar Apan (1990). He remade two of his hit films in Hindi — Balika Badhu (1976) and Rahgir (1969, adapted from his 1963 film Palatak). Among his critically acclaimed movies are Nimantran (1971), Sansar Simante (1975) and Ganadevata (1978).

Q:8 The correct option is **option 3 i.e. Raj Kumari Amrit Kaur**.

Portfolios	Ministers
Minister of Defence	Baldev Singh
Minister of Law	BR Ambedkar
Minister of Railways and Transport	John Mathai

Q:9 The correct answer is **option 2 i.e. HCl**.

Ionic Bond	Covalent Bond
The ionic bond is the attraction between positive and negative ions in a crystal and compounds held together by ionic bonds are called ionic compounds.	The covalent bond is a bond formed when two atoms share one or more electron pairs. Each atom contributes an equal number of electrons towards the bond formation.
Example: NaCl, LiF, KCl	Example: HCl

Q:10 The correct answer is **option 1 i.e. Shale**.

Igneous Rocks	It is formed through the cooling and solidification of magma or lava.
Examples	basalt, granite, pumice, obsidian, tuff, diorite, gabbro, and andesite, etc.
Sedimentary Rocks	These rocks are formed from sediments carried in rivers and deposited in lakes and oceans. The sediments lose water when buried and then become cemented to form rock.
Examples	breccia, conglomerate, sandstone, siltstone, shale, etc.

Q:11 The correct answer is **option 1 i.e. Mathematics**.

- Nobel Prize is given at an international level which is administered by the Nobel Foundation in Stockholm, Sweden.
- It is awarded for outstanding contributions in six categories including chemistry, literature, peace, physics, physiology or medicine, and economic sciences.

Q:12 The correct answer is **Option 4 i.e Naqshbandi**.

1. The Naqshbandi or Naqshbandiyah is a major Sunni spiritual order of Sufism.
2. It got its name from Baha-ud-Din Naqshband Bukhari and traces its spiritual lineage to the Islamic prophet Muhammad through Abu Bakr, who was a father-in-law and companion of Muhammad.

Q:13 The correct answer is **option 4 i.e. Morarji Desai**.

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- The Mandal Commission, or the Socially and Educationally Backward Classes Commission (SEBC), was established in India on 1 January 1979 by the Janata Party government under Prime Minister Morarji Desai with a mandate to "identify the socially or educationally backward classes" of India.
- It was headed by the late B.P. Mandal an Indian parliamentarian, to consider the question of reservations for people to redress caste discrimination and used eleven social, economic, and educational indicators to determine backwardness.

Q:14 The correct answer is **option 1 i.e. transportation of nutrients**.

Each part of a grown plant has a function:
- The roots absorb water and nutrients
- The stem transports nutrients to all parts of the plant
- The leaves make food from the combination of air, sunlight, and water and allow the plant to breathe.

Q:15 The correct answer is **option 1 i.e. Boris Savchenko**.

- Russian Grandmaster Boris Savchenko (8.5) defeated International Master Nitin Senthilvel of India with a superior tie-break score to emerge the champion after the tenth round of the 13th Chennai Open International Grandmaster Chess Tournament 2022 for the Sakthi Group Dr. Mahalingam Trophy.
- Savchenko received the glittering Chennai Open trophy and a cash award of Rs. 3,00,000 while the runner-up Nitin received Rs. 2,00,000.

Q:16 The correct answer is **option 2 i.e. Russia**.

India signed an agreement with Russia for the purchase of 70,000 AK-203 assault rifles.

A) The variant is an advanced version of AK -47 and its magazine can hold 30 bullets.
B) Unlike the INSAS rifles, these rifles never get jammed as these belong to AK series.
C) AK -203 assault rifle is considered to be the latest and most advanced version of AK-47 rifle.

Q:17 The correct answer is **option 4 i.e. Odisha**.

- A Small forest in Odisha's Bonai Forest Division is named after Sarojini Mohanta, as Sarojini Vana (Sarojini Forest).
- Hired for a daily wage of ₹315 as a watcher, this Sarojini has gone beyond the call of duty to create a forest on a denuded patch of land in just two years.

Q:18 The correct answer is **option 2 i.e. Majuli Island**.

• Majuli, the largest river island in the world is situated right at the heart of Assam on the turbulent waters of the Brahmaputra River. • The island is formed by the Brahmaputra River in the south and the Kherkutia Xuti, an anabranch of the Brahmaputra, joined by the Subansiri River in the north.

Q:19 The correct answer is **Option 2 i.e. Dadra and Nagar Haveli**.

Dadra and Nagar Haveli
• Dadra and Nagar Haveli, the Union Territory of India, is situated between Gujarat and Maharashtra. • Dadra and Nagar Haveli were the Portuguese overseas territories from 1779 to1954. • It was freed from the Portuguese rule in 1954. • It became centrally administered Union territory from 11 August 1961. • It celebrates its Liberation Day on 2 August. • It was the first UT to be a part of India after independence. • The Union Territories of Daman and Diu, Dadra and Nagar Haveli are merged into single union territory on January 26, 2020.

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Q:20 The correct answer is **option 1 i.e. USA**.

> • Every October, during National Arts and Humanities Month, these awards are presented by America for the arts annually.
> • At the National Arts Awards, more than 300 of the world's top artists and philanthropic leaders gather to recognize these achievements and applaud the accomplishments of a wide range of individuals that exhibit outstanding leadership in the visual and performing arts, arts education, and philanthropy.

Q:21 The correct answer is **option 2 i.e. 88**.

RADIUM(Ra)	
Atomic Number	88
Stablest Isotope	226
Melting Point	about 700 °C (1,300 °F)
Boiling Point	not well established (about 1,100–1,700 °C [2,000–3,100 °F])
Specific Gravity	about 5
Oxidation State	+2

Q:22 The correct answer is **Option 2 i.e. Utkal Divas**.

A) Odisha celebrates its foundation day on April 1. The day is also known as 'Utkal Divas'.

B) The day marks the date when the state became independent in the year 1936.

C) The state was carved out of the combined Bengal-Bihar-Orissa province.

Q:23 The correct answer is **Option 1 i.e. Vijayanagar**.

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By- Saikat Sir

- The austere, grandiose site of Hampi was the last capital of the last great Hindu Kingdom of Vijayanagar.
- Hampi is an ancient village in the south Indian state of Karnataka.
- The Vijayanagara Empire was based in the Deccan Plateau region in South India. It was established in 1336 by the brothers Harihara I and Bukka Raya I of the Sangama dynasty, members of a pastoralist cowherd community that claimed Yadava lineage.

Q:24 The correct answer is **option 1 i.e. Mohun Bagan AC**.

- The Federation Cup, also known as Hero Federation Cup for sponsorship reasons, was an annual single round-robin and knockout style club football tournament in India that started in 1977.
- Mohun Bagan AC won the Federation Cup Football Tournament the most number of times.

Q:25 The correct answer is **Option 1 i.e. the height of an image/the height of an object**.

Magnification of a lens is defined as the ratio of the height of an image to the height of an object. It is also given in terms of image distance and object distance. It is equal to the ratio of image distance to that of object distance.

$m = h_i/h_o = v/u$

Where, m = magnification
h_i= height of the image
h_o= height of an object

Q:26 The correct answer is **option 4 i.e. June 15**.

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- World Elder Abuse Awareness Day 2022 is celebrated on 15 June.
- It is a social issue that affects the mental well-being of millions of senior citizens across the globe. To spread awareness on the issue, world elder abuse day is observed on June 15.
- Digital Equity for All Ages is the theme of World Elder Abuse Awareness Day 2022.

Q:27 The correct answer is **Option 3 i.e. Siraj ud-Daulah**.

Siraj ud-Daulah	• Siraj ud-Daulah, was the last independent Nawab of Bengal. • Siraj ud-Daulah became a Nawab of Bengal after the death of Alivardi Khan in April 1756 at the age of 23. • Battle of Plassey was fought in 1757 between British East India Company and Nawab of Bengal (Siraj ud-Daulah). • Unfortunately, Siraj ud-Daulah was betrayed by his commander in chief, Mir Jafar.

Q:28 The correct answer is **Option 3 i.e. Ethylene glycole and terephthalic acid**.

• Terylene is a synthetic polyester fibre produced by polymerizing ethylene glycol and terephthalic acid which is obtained from petroleum. • The other name of Terylene is synthetic fibre.

Q:29 The correct answer is **option 2 i.e. Indian Association**.

Surendranath Banerjee and Ananda Mohan Bose founded _____ in Bengal in 1876.	Indian Association
What is Indian association?	• Indian Association, nationalist political group in India that favoured local self-government and served as a preparatory agent for the more truly national Indian National Congress. • The association was founded in Bengal in 1876 by Surendranath Banerjea and Ananda Mohan Bose. • After the Indian National Congress was founded in 1885, the association gradually lost ground; it was not heard of after 1888

Q:30 The correct answer is **option 1 i.e. 2-3**.

The pH scale ranges from 0–14:
- 0.0–6.9 is acidic
- 7.0 is neutral
- 7.1–14.0 is alkaline (also known as basic)

Acetic acid makes vinegar mildly acidic, with a typical pH of 2–3.

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Q:31 The correct answer is **option 2 i.e Emil Jannings**.

> • The Academy Award for Best Actor is an award presented annually by the Academy of Motion Picture Arts and Sciences (AMPAS). It is given in honour of an actor who has delivered an outstanding performance in a leading role while working within the film industry.
> • Emil Jannings was given the Best Actor award for his work in both The Way of All Flesh and The Last Command.

Q:32 The correct answer is **option 2 i.e. NITI Aayog**.

NITI AAYOG and World Resources Institute (WRI) jointly launch "Forum for Decarbonizing Transport" in India.
A) It is launched as part of the NDC -Transport Initiative for Asia (NDC-TIA) project.
B) Project aims to bring down the peak level of GHG emissions in Asia.
C) Project is part of the International Climate Initiative(IKI).

Q:33 The correct answer is **Option 1 i.e. Untouchability**.

Article 17 states : Abolition of Untouchability

"Untouchability" is abolished and its practice in any form is forbidden. The enforcement of any disability arising out of "Untouchability" shall be an offence punishable in accordance with the law.

Abolition of titles	Article 18
Abolition of forced labour	Article 23
Abolition of Sati	Done in 1829 by Lord Bentinck

Q:34 The correct answer is **Option 3 i.e. Group 18**.

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- The Group 18 elements include Helium(He), Neon(Ne), Argon(Ar), Krypton(Kr), Xenon(Xe), and Radon(Rn).
- They are referred to as noble gases or inert gases.
- Group 18 elements are also called zero group elements as they have zero electron affinity that is zero tendency in accepting electrons as they already have stability.

Q:35 The correct answer is **Option 2 i.e. PARAM 8000**.

1. PARAM 8000 is the first supercomputer in India.
2. Bhatkar developed the first Indian supercomputer, the PARAM 8000, in 1991 and later the PARAM 10000 in 1998.
3. A supercomputer is a computer with a high level of performance as compared to a general-purpose computer.
4. The performance of a supercomputer is commonly measured in floating-point operations per second (FLOPS) instead of million instructions per second (MIPS).

Q:36 The correct answer is **option 1 i.e. Mamluk dynasty**.

- 'Ghiyas ud din Balban' belongs to the Mamluk dynasty.
- He was the ninth sultan of the Mamluk dynasty of Delhi.
- Ghiyas ud din Balban was the first ruler of the Delhi Sultanate who expressed a clear and firm opinion regarding the powers of the Sultan.

More Info About Option:-

Dynasty	Important Ruler
Chola Dynasty	Vijayalaya, Aditya-I, Pandya
Chaulakya Dynasty	Pulkesin I and Pulkesin II
Maurya Dynasty	Chandragupta Maurya, Bindusara, Ashoka
Pandya Dynasty	Maravarman Sundara I, Jatavarman Sundara I
Pallava Dynasty	Simha Vishnu

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Q:37 The correct answer is **option 2 i.e. Birmingham**.

- Durban had previously considered bidding for the 2022 Commonwealth Games.
- Earlier two cities initially launched bids for the games Durban and Edmonton.
- Edmonton withdrew its bid in February 2015.
- Durban has marked the first time the games were held in Africa and the second time a Commonwealth republic would have hosted.
- It was reported in February 2017 that Durban may be unable to host the games due to financial constraints.
- The bidding process for the 2022 Commonwealth Games was relaunched in March 2017.
- The 2022 Commonwealth Games is scheduled to be held in Birmingham, England.

Q:38 The correct answer is **Option 1 i.e. Stomach**.

• The pylorus is the furthest part of the stomach that connects to the duodenum. It is divided into two parts, the antrum, which connects to the body of the stomach, and the pyloric canal, which connects to the duodenum. • The pylorus is a muscular valve that holds food in the stomach until it is ready for the next stage in the digestive process.

Q:39 The correct option is **option 2 i.e. Badminton**.

	Lakshya Sen is an Indian badminton player. Sen, born in Almora, belongs to a badminton family.
Lakshya Sen	His father, D. K. Sen, is a coach in India and his brother, Chirag Sen, is also an international badminton player.
	A 15-year-old lad from Almora, Uttarakhand, upstaged his mentor, Prakash, winning the distinction of being the youngest player to barge into the national men's singles final.

Q:40 The correct answer is **option 4 i.e. Iraq**.

- Russia emerged as India's Second largest Oil Exporter.
- Russia has become India's second-biggest supplier of oil beating Saudi Arabia into third place but still behind Iraq which remains No. 1.
- Iraq still remains the largest oil exporter to India.

Q:41 The correct answer is **option 1 i.e. Unified Mobile App for New-Age Governance**.

> - UMANG stands for 'Unified Mobile App for New-Age Governance'. It is developed by the Ministry of Electronics and Information Technology to promote the Digital India initiative.
> - It is a one–in–all app which provides over 100 services such as payment of utility bills, filing income tax, booking a gas cylinder, checking provident fund account, and many more.

Q:42 The correct answer is **Option 4 i.e.** D.

> - Rickets is the softening and weakening of bones in children, usually because of an extreme and prolonged vitamin D deficiency.
> - Vitamin D helps the child's body absorb calcium and phosphorus from food. Not enough vitamin D makes it difficult to maintain proper calcium and phosphorus levels in bones, which can cause rickets.

Q:43 The correct answer is **option 2 i.e. Economic reservation**.

- The One Hundred and Third Amendment of the Constitution of India introduces a 10% reservation for Economically Weaker Sections.
- Bill was introduced in the Lok Sabha on 8 January 2019.
- Introduced by Thawar Chand Gehlot, Minister of Social Justice and Empowerment.

Q:44 The correct answer is **option 3 i.e. 1746 – 1748**.

- The first battle of the Carnatic war was fought between English and French forces from 1746 – 1748.
- The Carnatic war was a series of military conflicts in the middle of the 18th century in India.
- This war was fought in the Carnatic region, Southern India.
- This was involved numerous People involved - Joseph François Dupleix (French Governor-General), Major Stringer Lawrence (British), Anwaruddin Khan (Nawab of the Carnatic).

More Info:-

Second Carnatic War	1749 – 1754
Third Carnatic War	1758 – 1763

Q:45 The correct answer is **option 1 i.e. very low**.

	Mass	Potential power	Ionization power	Shielding
Alpha	4 amu	very low	very high	paper skin

Q:46 The correct answer is **option 1 i.e. Mucosa**.

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"Food pipe or esophagus is the part of the digestive system of vertebrates with a distinct path exclusively meant for passage of food."
The food pipe or esophagus is divided into the following layers:

- Mucosa: The inner layer, or lining which separates the body from the food being digested inside.
- Submucosa: The layer responsible for producing secretions
- Muscularis: Food is pushed down through this layer made up of muscles
- Adventitia: Oesophagus is attached to the other parts through this outer layer

Q:47 The correct answer is **option 1 i.e. Mixed Economy**.

- Since independence, India has been a 'mixed economy'. India's large public sectors were responsible for providing employment and revenue to the economy.

Q:48 The correct answer is **option 4 i.e. Bhagat Singh**.

"Bombs and pistols do not make a revolution. The sword of revolution is sharpened on the whetting stone of ideas" is quoted by	Bhagat Singh
Bhagat Singh:	• He was an Indian socialist and a revolutionary. • Bhagat Singh was born in Punjab, India (now Pakistan), on September 27, 1907, to a Sikh family deeply involved in political activities. • He became involved in several violent demonstrations of political defiance and was arrested several times. • Singh was found guilty of killing a British police officer and hanged on March 23, 1931.

Q:49 The correct answer is **option 4 i.e. Chandipur**.

- Prithvi-II was successfully tested from the Integrated Test Range, Chandipur, Odisha.
- The missile is a proven system and is capable of striking targets with a very high degree of precision.

Q:50 The correct answer is **option 3 i.e. e-SHRAM**.

The Ministry of Labour and Employment launched the e-SHRAM portal.

1. It will help in targeted identification of unorganised workers.
2. The portal will help take the welfare scheme to their doorstep.

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