

• Question No. 1

Which of the following is an INCORRECT match about political parties and year of formation?

**Options :**

1. Samajwadi Party - 1992
2. Rashtriya Janata Dal - 1997
3. Nationalist Congress Party - 1999
4. Bahujan Samaj Party - 1990
- 5.

Answer : Bahujan Samaj Party - 1990

• Question No. 2

Who is the Census Commissioner of India in 2021?

**Options :**

1. Dr C Chandramouli
2. Dr Vivek Joshi
3. Shri Sailesh
4. DK Sikri
- 5.

Answer : Dr Vivek Joshi

• Question No. 3

Where is Kashi Vishwanath Temple located?

**Options :**

1. Varanasi
2. Aligarh

3. Agra
4. Lucknow
- 5.

Answer : Varanasi

• Question No. 4

During lightning, the high temperatures and pressures created in the air convert nitrogen into \_\_\_\_\_.

**Options :**

1. nitrogen oxide
2. ammonia
3. nitric acid
4. nitrous acid
- 5.

Answer : nitrogen oxide

• Question No. 5

Which of the following types of Indian dances does NOT involve themes related to Lord Krishna?

**Options :**

1. Sattriya dance
2. Mohiniyattam dance
3. Odissi dance
4. Manipuri dance
- 5.

Answer : Mohiniyattam dance

• Question No. 6

Which of the following states has topped in India Skills Report, 2022, released by Wheebox?

**Options :**

1. Uttar Pradesh
2. Punjab
3. Maharashtra
4. Kerala
- 5.

Answer : Maharashtra

• Question No. 7

Which state government launched a self-reliant farmer integrated development scheme in 2021?

**Options :**

1. Uttar Pradesh
2. Maharashtra
3. Kerala
4. Punjab
- 5.

Answer : Uttar Pradesh

• Question No. 8

With the aim to teach how many sentences in 22 scheduled vernacular languages in Devanagari script with translation in English has Bhasha Sangam been launched?

**Options :**

1. 175
2. 120
3. 100
4. 150
- 5.

Answer : 100

• Question No. 9

Which of the following is NOT one of the three approaches that government has been following over the years to reduce poverty in India?

**Options :**

1. Meeting the minimum needs of the poor
2. Growth Oriented Development
3. Education Level Elevation
4. Specific Poverty Alleviation Programmes
- 5.

Answer : Education Level Elevation

• Question No. 10

The Meenakshi Temple at Madurai is an example of which type of temple?

**Options :**

1. Nagara
2. Dravida
3. Mithunas
4. Vesara
- 5.

Answer : Dravida

• Question No. 11

In December 2021, Mithila Makhana of which state got the GI tag?

**Options :**

1. Uttar Pradesh
2. Karnataka
3. Bihar
4. Maharashtra
- 5.

Answer : Bihar

• Question No. 12

By lifting how much weight did Ajay Singh win the men's 81-kg category to clinch India's third gold of the Commonwealth Weightlifting Championship 2021?

Options :

1. 222 kg
2. 155 kg
3. 322 kg
4. 255 kg
- 5.

Answer : 322 kg

• Question No. 13

Now a days, people are replacing artificial sugar with stevia because it has no \_\_\_\_\_.

Options :

1. vitamins
2. carbohydrates
3. minerals
4. fats
- 5.

Answer : carbohydrates

- Question No. 14

In which year was the Census Act enacted?

**Options :**

1. 1984
2. 1872
3. 1948
4. 1894
- 5.

Answer : 1948

- Question No. 15

What is the name of wearable payment solutions launched by Bank of Baroda in December 2021?

**Options :**

1. bob World Wave
2. Baroda World Wide
3. bob World Wide
4. Baroda World Wave
- 5.

Answer : bob World Wave

- Question No. 16

DRDO and IAF flight tested helicopter-launched SANT missile from Pokhran ranges on 11 December 2021.

What is the full form of SANT?

**Options :**

1. Stand-Off Anti-Tank

2. Stand-Off Agni-Tank
3. Solid-Fuel Anti-Tank
4. Stand-Off Astra-Tank
- 5.

Answer : Stand-Off Anti-Tank

• Question No. 17

India ended the Asian Rowing Championship 2021 with how many medals in total?

**Options :**

1. Six
2. Eight
3. Four
4. Two
- 5.

Answer : Six

• Question No. 18

In which year after Alivardikhan did Siraj-ud-Daulah become the Nawab of Bengal?

**Options :**

1. 1675
2. 1657
3. 1765
4. 1756
- 5.

Answer : 1756

• Question No. 19

Which of the following forces operates among charged particles?

**Options :**

1. Electromagnetic force
2. Weak nuclear force
3. Gravitational force
4. Strong nuclear force
- 5.

Answer : Electromagnetic force

- Question No. 20

In which year did Mahatma Gandhi visit Noakhali and other riot-torn areas to stop communal violence?

**Options :**

1. 1936
2. 1916
3. 1926
4. 1946
- 5.

Answer : 1946

- Question No. 21

Which of the following cell organelles is INCORRECTLY matched?

**Options :**

1. Mitochondria - Power house
2. Plasma membrane - Soldier of cell
3. Lysosome - Suicidal bag
4. Vacuole Storage sac
- 5.



Answer : Plasma membrane - Soldier of cell

• Question No. 22

In November 2021, Shahrukh Khan won the Syed Mushtaq Ali T20 trophy by hitting a six on the final ball. To which state does he belong?

**Options :**

1. Uttar Pradesh
2. Karnataka
3. Maharashtra
4. Tamil Nadu
- 5.

Answer : Tamil Nadu

• Question No. 23

Which of the following expressions represents the conversion of 1 kWh in joules?

**Options :**

1.  $1 \text{ kWh} = 6.3 \times 10^6$
2.  $1 \text{ kWh} = 3.6 \times 10^4$
3.  $1 \text{ kWh} = 3.6$
4.  $1 \text{ kWh} = 3.6 \times 10^6$
- 5.

Answer :  $1 \text{ kWh} = 3.6 \times 10^6$

• Question No. 24

In December 2021, who planned to establish 1000 Atal tinkering labs in Jammu and Kashmir?

**Options :**

1. CSIR
2. ISRO
3. DRDO
4. NITI Aayog
- 5.

Answer : NITI Aayog

• Question No. 25

With which of the following companies has ISRO collaborated with to strengthen research and development of NaviC messaging service?

Options :

1. Samsung
2. OPPO
3. Vivo
4. Nokia
- 5.

Answer : OPPO

• Question No. 26

A man travels from point A to B at 40 km/h, further from B to C at 50 km/h and then further from C to D at 60 km/h. The ratio between the distances AB, BC and CD is 1 : 2 : 3. He returns from D to A at x km/h. If his average speed for the entire journey is  $480/13$  km/h, then what is the value of x?

Options :

1.  $25\frac{5}{7}$
2.  $32\frac{6}{7}$
3.  $34\frac{2}{7}$
4.  $28\frac{4}{7}$
- 5.

Answer :  $28\frac{4}{7}$

• Question No. 27

The distance covered by A in 10 hours is 27 km less than the distance covered by B in 12 hours. The distance covered by B in 8 hours is  $7\frac{1}{2}$  km more than the distance covered by A in 9 hours. If they start moving towards each other from the two ends of a road, 4.2 km in length, at the same time, they will cross each other after:

**Options :**

1. 24 minutes
2.  $24\frac{2}{3}$  minutes
3.  $23\frac{1}{3}$  minutes
4. 21 minutes
- 5.

Answer : 24 minutes

• Question No. 28

When 5396, 6248 and 7739 are divided by the greatest number  $x$ , the remainder in each case is  $y$ . Which of the following is true?

**Options :**

1.  $x = 3y$
2.  $3x - 7y = 140$
3.  $2x = 3y$
4.  $3x - 2y = 274$
- 5.

Answer :  $x = 3y$

Direction:

Study the given table and answer the question that follows.

Year	Production (in million tons)		
	Wheat	Rice	Maize
2016	200	350	300
2017	250	320	340
2018	100	420	350
2019	400	460	360
2020	450	500	400

• Question No. 29

The average production of maize during 2016, 2018 and 2020 is approximately what percentage of the total production of wheat, rice and maize in 2017?

Options :

1. 33.5%
2. 38.5%
3. 34.5%
4. 35.8%
- 5.

Answer : 38.5%

• Question No. 30

When  $x$  is subtracted from each of 25, 32, 59 and 80, the numbers so obtained, in this order, are proportional. What is the mean proportional between  $(3x + 1)$  and  $(5x - 4)$ ?

Options :

1. 30
2. 20
3. 15
4. 18
- 5.

Answer : 30

- Question No. 31

The expression

$$\frac{(1+\cos\theta+\sin\theta)\div(1+\cos\theta-\sin\theta)}{(\sec\theta-\cos\theta)(\cot\theta+\tan\theta)(1+\sin\theta)}, 0^\circ < \theta < 90^\circ, \text{ is equal to:}$$

**Options :**

1.  $\cot \theta$
2.  $\sec \theta$
3.  $\sin \theta$
4.  $\tan \theta$
- 5.

Answer :  $\cot \theta$

- Question No. 32

A and B started a business with their capitals in the ratio 9 : 13, respectively. They agreed to share the profit in the ratio of their investments. C joins the business with the condition that A, B and C will share the profit equally. C pays a sum of ₹ 3,08,000 as a premium for goodwill. What will be the share of B in this premium?

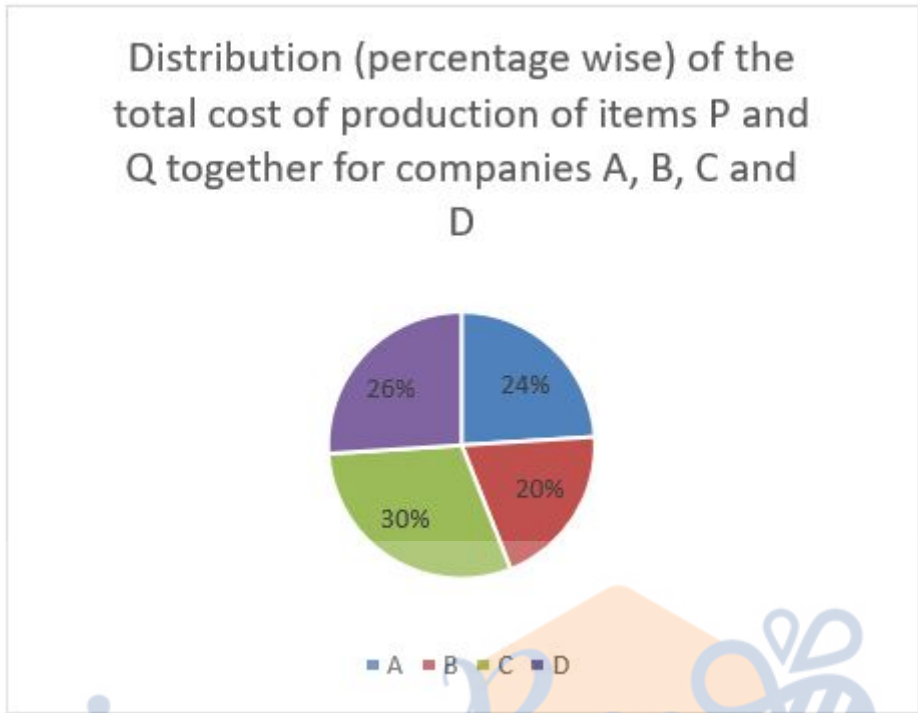
**Options :**

1. ₹2,38,000
2. ₹1,70,000
3. ₹2,04,000
4. ₹1,87,000
- 5.

Answer : ₹2,38,000

Direction:

Study the given pie chart and table and answer the question that follows.



Company	Ratio of the cost Of production for		Percentage profit earned for	
	P	Q	P	Q
A	7	9	20	25
B	5	3	35	45
C	15	17	40	60
D	6	7	30	40

The total cost of production for P and Q for company A = ₹76.8 crores

• Question No. 33

The total profit earned by companies B and C together for item P is what percentage less than the total cost of production of item Q for companies A and D together? (Correct to one decimal place)

Options :

- 1. 63.6%
- 2. 62.4%
- 3. 62.2%

4. 60.8%

5.

Answer : 63.6%

• Question No. 34

The cost of 5 notebooks is ₹6 more than the cost of 8 pens. The cost of 3 notebooks is 25% more than the cost of 4 pens. What is the cost of 2 notebooks and 5 pens?

**Options :**

1. ₹180

2. ₹150

3. ₹132

4. ₹160

5.

Answer : ₹150

• Question No. 35

A dealer 25% when he sells an article by giving 25% discount on its marked price. If the cost price of the article increases by 35% and he still wants to earn 20%, then how much per cent discount should he give on the same marked price?

**Options :**

1. 3.2%

2. 3.5%

3. 2.8%

4. 4.2%

5.

Answer : 2.8%

- Question No. 36

Aman travels a certain distance at  $x$  km/h. In the return journey, he covers 20% of the same distance in 35% of the time taken to cover the earlier distance. For the remaining part of the return journey, if his speed is  $y$  km/h, and he can cover the entire return journey in the same time as for the onward journey, then which of the following is true?

**Options :**

1.  $15y = 19x$
2.  $11y = 15x$
3.  $13y = 16x$
4.  $8y = 15x$
- 5.

Answer :  $13y = 16x$

- Question No. 37

A tank has  $n$  pipes attached to it, out of which 2 are outlet pipes and the rest are inlet pipes. Each inlet pipe can fill a tank in 10 hours and each outlet pipe can empty the full tank in 15 hours. When all the pipes are opened together then  $91\frac{2}{3}\%$  part of the tank is filled in  $2\frac{1}{2}$  hours. What is the value of  $n$ ?

**Options :**

1. 9
2. 8
3. 6
4. 7
- 5.

Answer : 7

- Question No. 38

Simplify:



$$\frac{2}{5} \text{ of } 7\frac{1}{2} \div \frac{3}{8} - 5\frac{1}{2} \div 3\frac{2}{3} \text{ of } \frac{1}{2} + \frac{3}{8} \times 1\frac{1}{2} \div 2\frac{1}{4}$$

**Options :**

1.  $3\frac{1}{2}$
2.  $11\frac{1}{4}$
3.  $7\frac{1}{2}$
4.  $5\frac{1}{4}$
- 5.

Answer :  $5\frac{1}{4}$

- Question No. 39

Ritu's monthly savings are 28% of her monthly expenditure. If her monthly income increases by 45% and the monthly expenditure increases by 54.1%, then by what percentage do her monthly savings increase?

**Options :**

1. 12.5%
2. 9.1%
3. 11.1%
4. 10.5%
- 5.

Answer : 12.5%

- Question No. 40

Working together, A and B can do a certain work in 45 days. They work together for 10 days. They complete the remaining work in 28 days with the assistance of C. The work done by C in 3 days is equal to the work done by B in 2 days. A and C together can complete 70% of the original work in

**Options :**

1. 40 days

2. 30 days
3. 36 days
4. 35 days
- 5.

Answer : 36 days

• Question No. 41

If  $3x + 2y = 15$  and  $xy = 6$ , then what is the value of  $(\frac{3}{2}x^3 + (\frac{4}{9})y^3)$ ?

**Options :**

1. 98.6
2. 92.5
3. 97.5
4. 95.8
5. -

Answer : 97.5

• Question No. 42

The radius of a sphere is  $r$  cm and the height of a cylinder inscribed in the sphere is  $1.2r$ . What is the ratio of the volume of the cylinder to the volume of the sphere?

**Options :**

1. 16 : 25
2. 72 : 125
3. 5 : 6
4. 27 : 50
- 5.

Answer : 72 : 125

- Question No. 43

In  $\Delta ABC$ ,  $\angle A$  is the largest angle and  $\angle B$  is the smallest angle. If the length of the sides of the triangle are consecutive positive integers, then the length of the largest side (in units) is:

**Options :**

1. 8
2. 5
3. 7
4. 6
- 5.

Answer : 6

- Question No. 44

Rehana bought an article for ₹1,920 and spent ₹130 on its shipping. She sold it at 20% profit. From the money she got then, she bought another article and sold it at 15% loss. What is her overall loss/ profit percentage?

**Options :**

1. Profit, 5%
2. Loss, 5%
3. Loss, 2%
4. Profit, 2%
- 5.

Answer : Profit, 2%

- Question No. 45

Let  $x = 1.\overline{05} \div 0.\overline{95} \times 0.\overline{409}$  and  $y = (0.\overline{75} \div 0.\overline{226}) \times (5.\overline{09} \div 1.7)$ , then the value of  $xy$  is:

**Options :**

1. 0.45
2. 5.4
3. 0.54
4. 4.5
- 5.

Answer : 4.5

• Question No. 46

The sides AB and DC of a cyclic quadrilateral ABCD are produced to meet at E and the sides AD and BC are produced to meet at F. If  $\angle AFB = 52^\circ$  and  $\angle FBE = 102^\circ$ , then what is the measure of  $\angle BEC$ ?

Options :

1.  $28^\circ$
2.  $36^\circ$
3.  $26^\circ$
4.  $38^\circ$
- 5.

Answer :  $28^\circ$

• Question No. 47

The average of 17 numbers is 55. The average of the first 6 numbers is 49.5 and that of the next 8 numbers is 60.5. The 16<sup>th</sup> number is 4 less than the 15<sup>th</sup> number and 6 less than the 17<sup>th</sup> number. What is the average of the 15<sup>th</sup> and 17<sup>th</sup> numbers?

Options :

1. 46
2. 48
3. 41
4. 53

5.

Answer : 53

• Question No. 48

The radius of the base of a right circular cone is 15 cm and its total surface area is  $480\pi$ . What is the volume (in  $\text{cm}^3$ ) of the cone?

**Options :**

1.  $540\pi$
2.  $570\pi$
3.  $600\pi$
4.  $720\pi$
- 5.

Answer :  $600\pi$

• Question No. 49

A car is available for ₹ 4.98.200 cash or ₹ 60,000 cash down payment followed by three equal annual instalments. If the rate of interest charged is 16% p.a., compounded yearly, then the total interest charged in the instalment plan is:

**Options :**

1. ₹1,46,314
2. ₹1,47,136
3. ₹1,45,163
4. ₹1,46,137
- 5.

Answer : ₹1,47,136

• Question No. 50

A certain sum amounts to ₹ 25,300 in 2 years at 7.5% pa., simple interest. What will be the compound interest on the same sum for the same period at double the rate, if the interest is compounded 8-monthly?

Options :

1. ₹7,248
2. ₹7,282
3. ₹7,284
4. ₹7,372
- 5.

Answer : ₹7,282

• Question No. 51

A cylindrical wire AB consists of three equal parts AC, CD and DB, made of the same material but have different radius of cross-sections  $2r$ ,  $1.5r$  and  $r$ , respectively. A battery is connected across the wire. Let  $V_1$ ,  $V_2$  and  $V_3$  be the potential differences across AC, CD and DB, respectively. Then:

- (a)  $V_1 : V_2 : V_3 = 3 : 4 : 16$
- (b)  $V_1 : V_2 : V_3 = 9 : 16 : 36$
- (c)  $V_1 : V_2 : V_3 = 2 : 15 : 1$
- (d)  $V_1 = V_2 = V_3$

Options :

1. a
2. b
3. c
4. d
- 5.

Answer : b

• Question No. 52

An element "X", having atomic number 16, gains two electrons to form an anion X. What will be the atomic number of 'X' in the anion?

**Options :**

1. 18
2. 16
3. 20
4. 14
- 5.

Answer : 16

- Question No. 53

How many moles of carbon dioxide are present in a gas jar containing  $1.501 \times 10^{22}$  molecules of  $\text{CO}_2$ ?

**Options :**

1. 0.25
2. 40.1
3. 0.401
4. 0.025
- 5.

Answer : 0.025

- Question No. 54

The PH of an aqueous solution of a salt is 4.5. Which of the following about this salt is true?

**Options :**

1. It is a salt of a weak acid and a strong base.
2. It is a salt of a strong acid and a weak base.
3. It is a salt of a weak acid and a weak base.
4. It is a salt of a strong acid and a strong base.
- 5.

Answer : It is a salt of a strong acid and a weak base.

• Question No. 55

The refractive index of water and turpentine oil are 1.33 and 1.47, respectively. A ray of light travels from turpentine oil to water. The refractive index of water with respect to turpentine oil is and the light ray bends the normal in water

**Options :**

1. 1.10, towards
2. 1.10, away from
3. 0.90, towards
4. 0.90, away from
- 5.

Answer : 0.90, away from

• Question No. 56

Which of the following is NOT a method to improve crop yields in India?

**Options :**

1. Variety improvement
2. Storage improvement
3. Protection improvement
4. Cultivation improvement
- 5.

Answer : Storage improvement

• Question No. 57



Two resistors A ( $3\ \Omega$ ) and B ( $6\ \Omega$ ) are connected in parallel. This combination is connected in series to two other resistors C ( $3\ \Omega$ ) and D ( $6\ \Omega$ ) and a 5.5 V battery of negligible internal resistance. Let  $P_B$  and  $P_D$  be the rate of energy dissipated in resistors B and D, respectively. Then the ratio ( $P_B/P_D$ ) is:

- (a)  $\frac{1}{3}$
- (b)  $\frac{2}{3}$
- (c)  $\frac{1}{9}$
- (d)  $\frac{4}{9}$

Options :

- 1. a
- 2. b
- 3. c
- 4. d
- 5.

Answer : c

- Question No. 58

Which of the following is NOT a part of the 'Five Fs' in maintaining sanitary hygiene?

Options :

- 1. Food
- 2. Fluids
- 3. Flies
- 4. Fingers
- 5.

Answer : Food

- Question No. 59

Which of the following is the correct set-up for electrolytic refining of silver?

**Options :**

1. Cathode : pure copper; anode : impure silver; electrolyte :  $\text{Cu}(\text{NO}_3)_2(\text{aq})$
2. Cathode: impure silver; anode : pure silver; electrolyte :  $\text{AgNO}_3(\text{aq})$
3. Cathode: pure silver; anode : impure silver; electrolyte :  $\text{AgNO}_3(\text{aq})$
4. Cathode: pure copper; anode : impure silver; electrolyte :  $\text{AgNO}_3(\text{aq})$
- 5.

Answer : Cathode: pure silver; anode : impure silver; electrolyte :  $\text{AgNO}_3(\text{aq})$

• Question No. 60

An object is placed on the axis of a concave mirror at its focus (F). The image formed is:

**Options :**

1. inverted and of the same size
2. 2 inverted and highly enlarged
3. erect and enlarged
4. inverted and highly diminished
- 5.

Answer : 2 inverted and highly enlarged

• Question No. 61

Which of the following statements for the given chemical reaction is true?



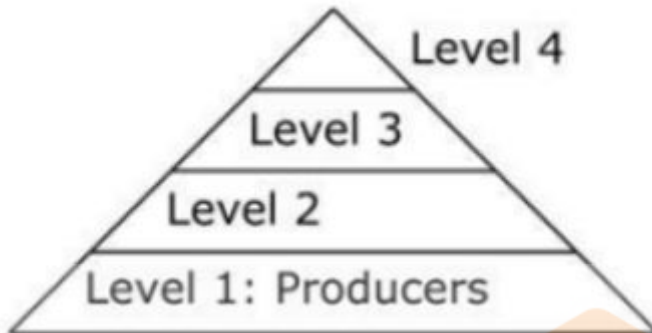
**Options :**

1. Aluminium is the oxidising agent
2. Iron oxide is the oxidising agent
3. Aluminium is getting reduced
4. Iron is getting reduced
- 5.

Answer : Iron oxide is the oxidising agent

- Question No. 62

In the given figure, frogs occupy \_\_\_\_\_.



Options :

1. Level 1
2. Level 4
3. Level 2
4. Level 3
- 5.

Answer : Level 3

- Question No. 63

A cylindrical metal wire is reformed so that its length decreases by 20% with no change of volume. Its

resistance decreases by:

Options :

1. 36%
2. 24%
3. 18%
4. 27%
- 5.

Answer : 36%

• Question No. 64

The Amrita Devi Bishnoi Wildlife Protection Award is given in the memory of Amrita Devi Bishnoi, who sacrificed her life along with 363 others for the protection of 'Khejri' trees in Khejrli village located in \_\_\_\_\_.

**Options :**

1. Uttrakhand
2. M.P.
3. U.P.
4. Rajasthan
- 5.

Answer : Rajasthan

• Question No. 65

Study the given information.

Consider the force on a current carrying straight conductor in a magnetic field.

- (i) It is perpendicular to the direction of current.
- (ii) It is perpendicular to the magnetic field.
- (iii) Its direction can be found using right-hand thumb rule.

Select the correct option.

**Options :**

1. All (i), (ii) and (iii) are correct
2. Only (ii) is correct
3. Only (i) is correct
4. Both (i) and (ii) are correct
- 5.

Answer : Both (i) and (ii) are correct

• Question No. 66

An object, 3.0 cm in height, is placed at a distance of 45.0 cm in front of a concave mirror of focal length 30.0 cm. on its principal axis. Following New Cartesian Sign Convention, the image is formed at  $v =$  \_\_\_\_\_ and its height  $H_1 =$  \_\_\_\_\_.

**Options :**

1. -18 cm; 1.2 cm
2. -90 cm; 6.0 cm
3. -90 cm; -6.0 cm
4. -18 cm; -1.2 cm
- 5.

Answer : -90 cm; -6.0 cm

• Question No. 67

You are given two liquid mixtures "X" and "Y". Both appear to be homogeneous, but "X" does not scatter light whereas "Y" scatters light. Which of the following is true about these two mixtures?

**Options :**

1. 'X' is a colloid; 'Y' is a true solution
2. 'X' is a true solution; 'Y' is a suspension
3. 'X' is a suspension; 'Y' is a colloid
4. 'X' is a true solution; 'Y' is a colloid
- 5.

Answer : 'X' is a true solution; 'Y' is a colloid

• Question No. 68

When Mendel crossed a tall pea plant with a short pea plant, only tall plants were produced. Of these progeny F1 plants, \_\_\_\_\_ had dissimilar factors or alleles that determine the height of the pea plant.

**Options :**

1. Three out of four (75%)
2. All (100%)
3. One out of four (25%)
4. Two out of four (50%)
- 5.

Answer : All (100%)

• Question No. 69

The primary reason that smoking cigarettes is bad for our health is that cigarette smoke \_\_\_\_\_.

**Options :**

1. inhibits ability of haemoglobin to carry blood
2. weakens muscles participating in breathing
3. kills the cilia in the upper respiratory tract
4. destroys normal lung cells and grows cancer cells
- 5.

Answer : kills the cilia in the upper respiratory tract

• Question No. 70

When carbon dioxide gas is passed through lime water, a white precipitate is formed, which dissolves on passing excess of carbon dioxide. The white precipitate dissolves due to the formation of which compound?

**Options :**

1. Calcium hydrogen carbonate
2. Calcium carbonate
3. Calcium chloride
4. Calcium hydroxide
- 5.

Answer : Calcium hydrogen carbonate

• Question No. 71

Zinc metal liberates hydrogen gas on reaction with dilute HCl, but hydrogen gas is not liberated, when zinc is reacted with nitric acid. What is the reason for this observation?

**Options :**

1. Nitric acid oxidises hydrogen gas formed in the reaction.
2. Nitric acid does not contain hydrogen.
3. Zinc metal reduces the hydrogen gas formed in the reaction.
4. Zinc is less reactive than hydrogen.
- 5.

Answer : Nitric acid oxidises hydrogen gas formed in the reaction.

• Question No. 72

Two lenses  $L_1$ , and  $L_2$  of powers, 5.0 D and  $-(103)$  D respectively, separated by 50 cm, are arranged parallel to each other in vertical planes. An object is placed 40 cm left to  $L_1$ , vertically on the common axis of the lenses. The distance between the original object and the final image is

**Options :**

1. 102.5 cm
2. 72.5 cm
3. 82.5 cm
4. 92.5 cm
- 5.

Answer : 82.5 cm

• Question No. 73

Which of the following organelles is NOT bound by a membrane?

**Options :**

1. apparatus
2. Ribosome
3. Nucleus
4. Lysosome
- 5.

Answer : Ribosome

• Question No. 74

The modern system of classification of living beings is based on the principles of

**Options :**

1. ecology (habitat)
2. morphology (external appearance)
3. anatomy (internal structures)
4. evolution (homology)
- 5.

Answer : evolution (homology)

• Question No. 75

Which of the following endocrine glands is located in the thoracic region in man?

**Options :**

1. Pituitary
2. Pineal
3. Pancreas
4. Parathyroid
- 5.

Answer : Parathyroid



- Question No. 76

What was the immediate outcome of the conference of ambassadors of European states, which was chaired by Duke Metternich?

**Options :**

1. Civil code of 1804
2. Calling of Frankfurt parliament
3. Treaty of Versailles
4. Treaty of Vienna
- 5.

Answer : Treaty of Vienna

- Question No. 77

Consider the given statements with respect to the creation of Great Britain. Which of the statements are correct?

**Statements:**

- I. Before the 19th century there was no British nation state.
- II. The Act of Union united Scotland and England.
- III. Wolf Tone's efforts to keep Ireland united failed in 1798.

**Options :**

1. I and II
2. I and III
3. I, II and III
4. II and III
- 5.

Answer : II and III

- Question No. 78

Which of the following statements related to the Russian Revolution is correct?

**Options :**

1. Finding the situation troublesome, Prime Minister Kerenskii left Petrograd during February Revolution.
2. October Revolution of Russia was bloodier than February Revolution.
3. In October 1917, Tsar Nicholas II abdicated the throne
4. On 27 February, the Petrograd Soviet of Workers' and Soldiers' Deputies was created
- 5.

Answer : On 27 February, the Petrograd Soviet of Workers' and Soldiers' Deputies was created

- Question No. 79

According to the Census of India 2011, the Scheduled Castes and the Scheduled Tribes were \_\_\_\_\_ and \_\_\_\_\_ of the country's population, respectively.

**Options :**

1. 16.6% ; 8.6%
2. 19.2% ; 8.6%
3. 7.5% ; 8.6%
4. 25.2% ; 8.6%
- 5.

Answer : 16.6% ; 8.6%

- Question No. 80

Which of the following is an anthropogenic disaster?

**Options :**

1. Blizzard

2. Stampede
3. Tornado
4. Drought
- 5.

Answer : Stampede

- Question No. 81

Which Article of the Constitution of India is related to the Special Address by the President?

**Options :**

1. Article 83
2. Article 94
3. Article 87
4. Article 99
- 5.

Answer : Article 87

- Question No. 82

Which of the following is a Regional Party of Karnataka?

**Options :**

1. Indian Union Muslim League (IUML)
2. Janta Dal (Secular)
3. YSR Congress party (YSRCP)
4. All India Anna Dravida Munnetra Kazhagam (AIADMK)
- 5.

Answer : Janta Dal (Secular)

- Question No. 83

Which of the following statements is INCORRECT?

**Options :**

1. Northern plains receive scanty rainfall when the axis of monsoon trough lies over it.
2. Western cyclonic disturbances influence the weather of northern and north-western part of India.
3. There is no well-defined winter season in peninsular India.
4. Low pressure over northern plains in early June attracts trade winds of the southern hemisphere.
- 5.

Answer : Northern plains receive scanty rainfall when the axis of monsoon trough lies over it.

- Question No. 84

Which of the given statements is/are true?

**Statements:**

- I. The Seventh Schedule of the Constitution of India deals with legislative subjects between Centre and States.
- II. At present, the Union List has 101 subjects and the State List has 52 subjects.

**Options :**

1. Neither I nor II
2. Only I
3. I and II
4. Only II
- 5.

Answer : Only I

- Question No. 85

Which of the following statements are true for floods in India?

**Statements:**

- I. Tamil Nadu receives flood in winter months.

II. Floods can initiate cascading effects.

III. Humans do not have any role in creating or spreading floods.

**Options :**

1. I, II and III

2. I and II

3. I and III

4. II and III

5.

Answer : I and II

- Question No. 86

In the context of Indian states formation after independence, Operation Polo is associated with which state?

**Options :**

1. Sikkim

2. Goa

3. Jammu and Kashmir

4. Hyderabad

5.

Answer : Hyderabad

- Question No. 87

Which of the following statements are correct?

**Statements:**

I. Olympe de Gouges was an important woman political figure in the French Revolution.

II. In 1790, she prepared the Declaration of the Rights of Woman and of the Citizen.

III. She was executed by National Convention.

**Options :**

1. I, II and III
2. I and II
3. I and III
4. II and III
- 5.

Answer : I and III

• Question No. 88

The given question consists of two statements: Assertion (A) and Reason (R). Read them carefully and select the most appropriate option.

A: In the year 2013-14, the manufacturing sector emerged as the largest producing sector in India replacing the primary sector.

R: Production of goods at cheap rates in factories led to an increase in consumer demand for goods.

This is one of the causes for the shift of total production and employment from the primary sector to the secondary sector.

**Options :**

1. A is true but R is false.
2. Both A and R are true and R is the correct explanation of A.
3. A is false but R is true.
4. Both A and R are true and R is not the correct explanation of A.
- 5.

Answer : A is false but R is true.

• Question No. 89

Which of the following pairs of State and formation year is/are correct?

I. Nagaland - 1972

II. Uttarakhand - 2000

III. Arunachal Pradesh - 1987

**Options :**

1. II and III
2. I and III
3. I and II
4. Only II
- 5.

Answer : II and III

• Question No. 90

The United Nations Conference on Environment and Development (UNCED) took place at \_\_\_\_\_ in the year\_\_\_\_\_

Convention on biological diversity and \_\_\_\_\_ were among its major outcomes.

**Options :**

1. Paris; 2015 nationally determined contributions
2. Delhi; 2019; Delhi declaration
3. Berlin; 1995; UNFCCC
4. Rio de Janeiro; 1992; Agenda 21
- 5.

Answer : Rio de Janeiro; 1992; Agenda 21

• Question No. 91

In which year was the Consumer Protection Bill passed by the houses of Parliament?

**Options :**

1. 1986
2. 1994
3. 1981
4. 1991
- 5.

Answer : 1986

• Question No. 92

Which of the following statements is INCORRECT in the context of the Constituent Assembly of India?

**Options :**

1. The sixth session of the Constituent Assembly was held on 27 January 1948.
2. The Constituent Assembly that wrote the Constitution of India had 299 members in it.
3. On 13 December 1946, Jawaharlal Nehru moved the 'Objectives Resolution' in the assembly.
4. The Constituent Assembly adopted the National Flag on 24 January 1947.
- 5.

Answer : The Constituent Assembly adopted the National Flag on 24 January 1947.

• Question No. 93

At Palais des Nations in Geneva, how many countries signed GATT on 30 October 1947?

**Options :**

1. 25
2. 23
3. 27
4. 24
- 5.

Answer : 23



- Question No. 94

Match the columns.

Leaders	Region
I. Birsa Munda	A. Santhal Pargana
II. Siddhu & Kanu	B. Chhota Nagpur
III. Alluri Sitaram Raju	C. Andhra region

Options :

1. I-A, II-C, III-B
2. I-A, II-B, III-C
3. I-B, II-A, III-C
4. I-B, II-C, III-A
- 5.

Answer : I-B, II-A, III-C

- Question No. 95

Which of the following is NOT a scheduled language of India?

Options :

1. Mundari
2. Dogri
3. Santhali
- 4.
- 5.

Answer : Mundari

- Question No. 96

An increase in the GDP of an economy is an indicator of which of the following?

**Options :**

1. Self-reliance
2. Social welfare
3. Economic development
4. Economic growth
- 5.

Answer : Economic growth

• Question No. 97

In 2018, which committee has submitted its report on Special Economic Zones to the Ministry of Commerce and Industry?

**Options :**

1. Baba Kalyani Committee
2. Ranganathan Committee
3. NS Vishwanathan committee
4. Urjit Patel Committee
- 5.

Answer : Baba Kalyani Committee

• Question No. 98

Which earthquake measuring scale is based on Earth's rigidity and the amount and area of slip on the fault?

**Options :**

1. Richter magnitude scale
2. Mercalli intensity scale
3. Saffir-Simpson scale
4. Moment magnitude scale
- 5.

Answer : Moment magnitude scale

- Question No. 99

Which of the following statements related to the discontent among peasants in Indian nationalist movements is/are correct?

**Statements:**

- I. Bankim Chandra Chattopadhyay wrote 'Neel Darpan' in 1860, which portrayed atrocities of indigo planters.
- II. Michael Madhusudan Dutta translated the play 'Neel Darpan' into English.

**Options :**

- 1. Only II
- 2. I and II
- 3. Only I
- 4. Neither I nor II
- 5.

Answer : Only II

- Question No. 100

According to Budget Estimates, the expenditure on Education as a percentage of GDP rose from \_\_\_\_\_ in 1951-52 to \_\_\_\_\_ in 2019-20.

**Options :**

- 1. 0.73% ; 3.4%
- 2. 0.43% ; 2.9%
- 3. 0.64% ; 3.1%
- 4. 0.73% ; 3.2%
- 5.

Answer : 0.64% ; 3.1%

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