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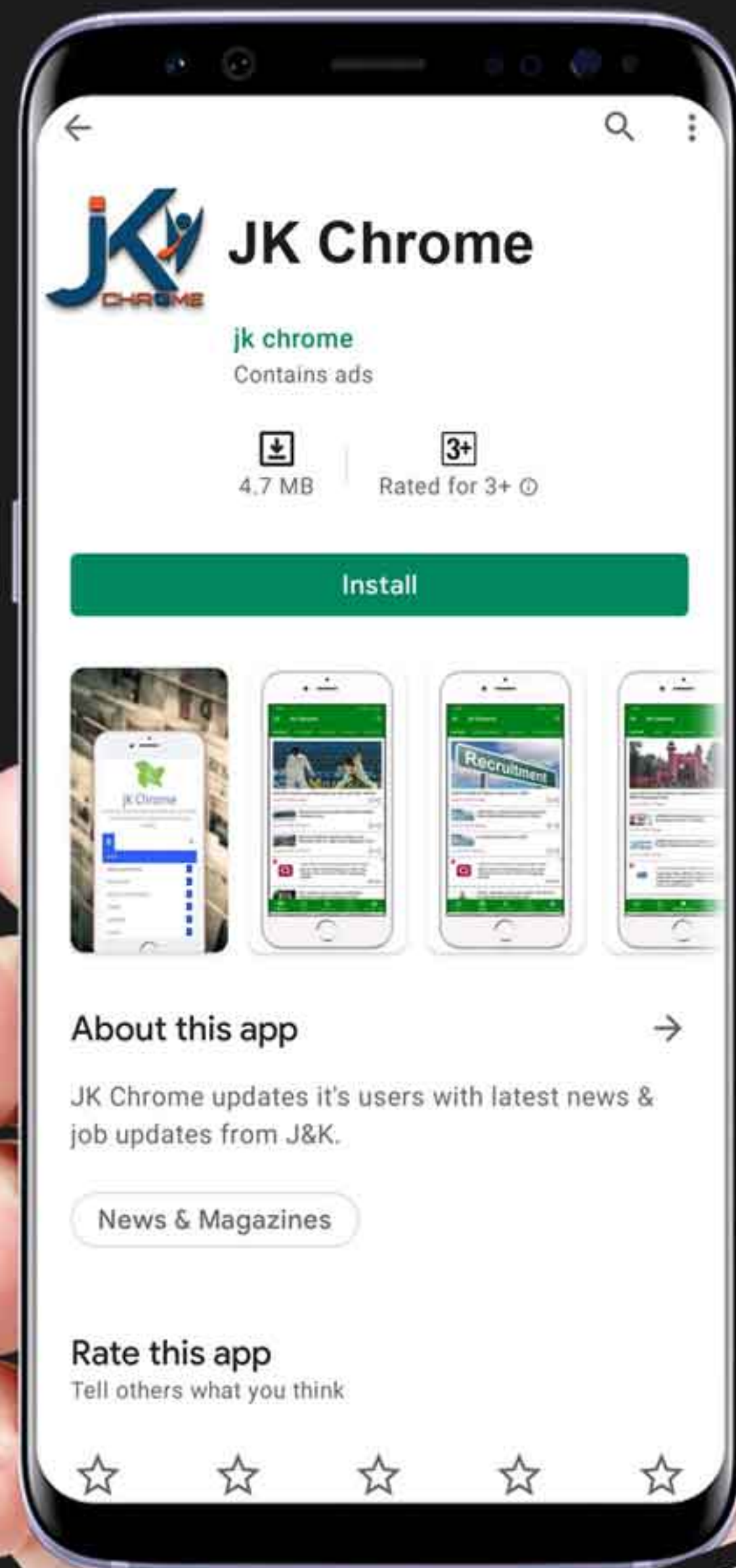
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STUDY MATERIAL



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**SSC GD****Reasoning****Instructions**

For the following questions answer them individually

**Question 1**

The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

**Statements:**

All houses are rivers.

All rivers are forest.

No forest is flower.

**Conclusions:**

I. No houses is flower.

II. No flower is houses.

- A Either conclusion I or II follows
- B Only conclusion II follows
- C Both Conclusions I and II follow
- D Only conclusion I follows

**Answer: C**

**Question 2**

If RAYMOND is written as 2795431 and OLD as 461, how will DALMO be written?

- A 15764
- B 15476
- C 17654
- D 17653

**Answer: C**

**Question 3**

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

- A RYZ
- B UBC
- C FGM
- D IPQ

**Answer: C**

**Question 4**

Select the related word pair from the given alternatives.

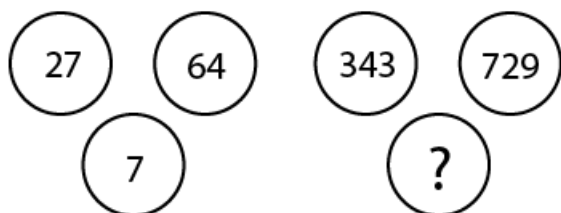
Entomology : Insects :: ..... : .....

- A Physiology : Plants
- B Virology : Fungi
- C Phycology : Algae
- D Oology : Shells

Answer: C

#### Question 5

Find the missing number from the below options.



- A 9
- B 8
- C 16
- D 25

Answer: C

#### Question 6

The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statements:

Some beds are chairs.

All chairs are desks.

All desks are tables.

Conclusions:

I. Sometables are beds.

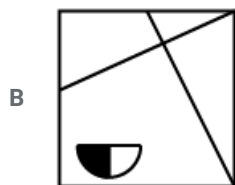
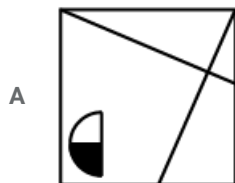
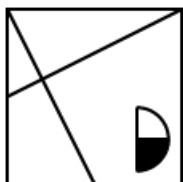
II. Some desks are beds.

- A Either conclusion I or II follows
- B Only conclusion I follows
- C Only conclusion II follows
- D Both Conclusions I and II follow

Answer: D

**Question 7**

Choose the option that most closely resembles the mirror image of the given figure when mirror is placed at right side.



Answer: A

**Question 8**

If '÷' means '+', '-' means '×', '×' means '-', and '+' means '÷', then:

$$664 + 4 \div 34 \times 28 = ?$$

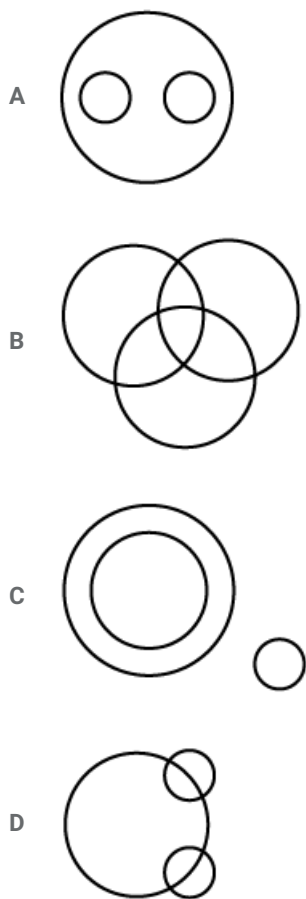
- A 165
- B 162
- C 172
- D 185

Answer: C

**Question 9**

Select the Venn diagram that best illustrates the relationship between the three given classes.

Planet, Earth, Sun



Answer: C

#### Question 10

Four options have been given out of which three are alike in some manner, while one is different. Choose the odd one.

A 14-13

B 13-12

C 11-14

D 08-17

Answer: A

#### Question 11

Select the correct option that will fill in the blank and complete the series.

J, N, R, V, .....

A D

B Z

C V

D G

Answer: B

## Question 12

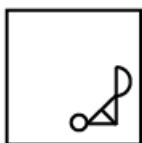
Anil is taller than Sunny who is shorter than Baby. Anil is taller than Bose who is shorter than Sunny. Baby is shorter than Anil. Who is the shortest?

- A Bose
- B Baby
- C Anil
- D Sunny

Answer: A

## Question 13

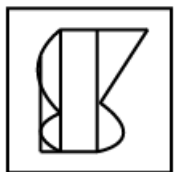
Choose the option figure in which the problem figure is hidden/embedded.



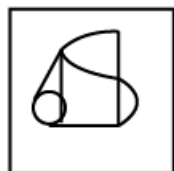
A



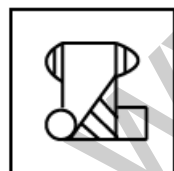
B



C



D



Answer: D

## Question 14

Four words have been given out of which three are alike in some manner, while one is different. Choose the odd one.

- A Service
- B Proprietorship

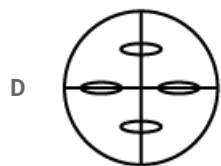
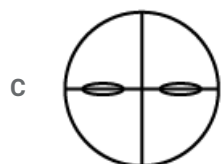
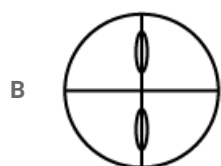
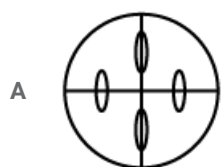
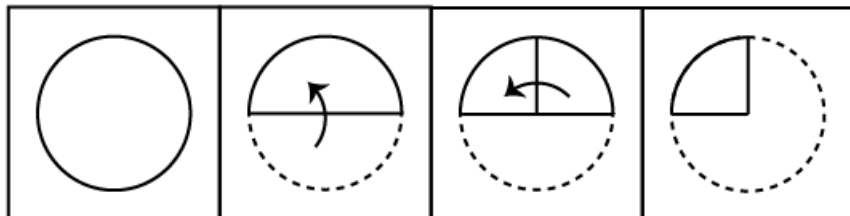
C Partnership

D Corporation

Answer: A

## Question 15

A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, how will it appear when opened?



Answer: B

## Question 16

Select the option that is related to the third term in the same way as the second term is related to the first term.  
mmnrrstt : nnoostuu :: eefghij : ?

A ffhgijjk

B ffgghijjk

C fgghijjk

D hfgijjk

Answer: B

**Question 17**

Select the related word pair from the given alternatives.

Eiffel Tower : France :: ..... : .....

- A Alhambra : Brazil
- B Opera House: China
- C Taj Mahal: India
- D Statue Of Liberty : Australia

Answer: C

**Question 18**

A,B,C, D, E, F and G are sitting around a circle facing at the centre. D is third to the left of A who is second to the left of F. E is not a neighbour of either F or D. is third to left of B.

What is E's position with respect to F?

- A Third to the left
- B Data inadequate
- C Second to the left
- D Fourth to the left

Answer: A

**Question 19**

Select the correct option that will fill in the blank and complete the series.

14, 21, 42, 105, 315, ?

- A 1202.5
- B 1302.5
- C 1002.5
- D 1102.5

Answer: D

**Question 20**

Select the option that is related to the Third term in the same way as the second term is related to the first term.

12 : 62 : 14 : .....

- A 70
- B 72
- C 80



D 75

Answer: B

Question 21

Select the correct option that will fill in the blank and complete the series.  
25, 100, 200, 800, 1600, ?

A 6400

B 7400

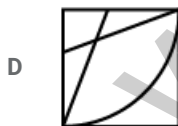
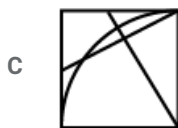
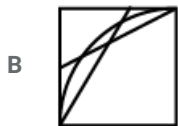
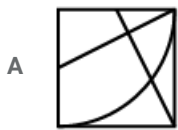
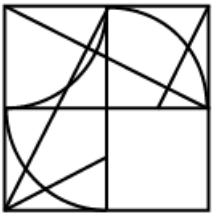
C 6600

D 8400

Answer: A

Question 22

Which of the following answer figure will complete the given figure?



Answer: B

## Question 23

Mona, Kanak, John, Honey, Isha and Lara are watching a movie in a theater which has screen in the north. They are sitting in certain way.

- (i) Only Kanak is sitting between Honey and John.
- (ii) Lara is to the right of Mona who is sitting at extreme left.
- (iii) Isha is to the immediate right of John.

Who is sitting at extreme right?

- A Honey
- B Isha
- C Kanak
- D John

Answer: B

## Question 24

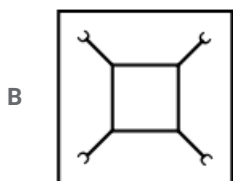
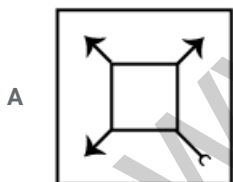
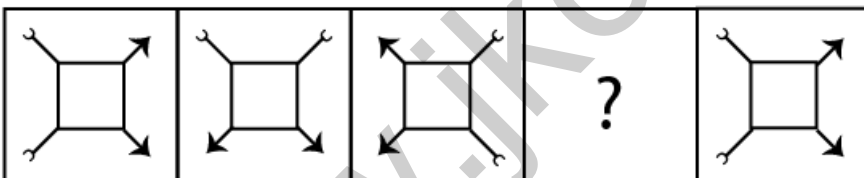
In a certain code, FORMAT is coded as CLOJXQ, then how is FONT coded in the same way?

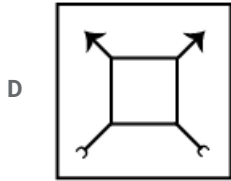
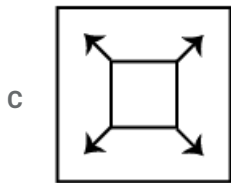
- A CKLQ
- B CKLO
- C CLOQ
- D CLKQ

Answer: D

## Question 25

Choose the option which completes the given figure series.





Answer: D

## General knowledge

### Instructions

For the following questions answer them individually

### Question 26

..... was known as a unit of measurement of land before the British rule, the size of the land varied, in Bengal the British standardised it to about one-third of an acre.

- A Pace
- B Fathom
- C lick
- D Bigha

Answer: D

### Question 27

The power of Satyagraha emphasized the power of what:

- A poverty
- B strength
- C truth
- D weakness

Answer: C

### Question 28

Kedarnath Bhattacharya, a popular singer, is better known by the name .....

- A Kishore kumar
- B Arijit Singh

C Bappi Lahiri

D Kumar Sanu

**Answer: D**

**Question 29**

**As per the Constitution, India is also known as:**

A Bharat

B Hindustan

C South Asia

D Aryavarta

**Answer: A**

**Question 30**

**The inbuilt variation in reproduction occurs due to sexual reproduction and errors due to:**

A DNA dividing

B DNA copying

C DNA matching

D DNA multiplying

**Answer: B**

**Question 31**

**The Sahitya Academy Award in English for 2017 was won by:**

A Chetan Bhagat

B Shashi Tharoor

C Rana Ayub

D Mamang Dai

**Answer: D**

**Question 32**

**Indian policy analyst Sanjaya Baru published " *The Accidental Prime Minister*", a memoir, based on his experiences as a media advisor to .....**

A Rahul Gandhi

B Indira Gandhi

C Narendra Modi

D Manmohan Singh

**Answer: D**

**Question 33**

**A statue of DMK leader ..... was unveiled in Chennai recently.**

- A** MK Stalin
- B** J Jayalalitha
- C** MG Ramachandran
- D** M Karunanidhi

**Answer: D**

**Question 34**

**To test whether something is acidic or alkaline, we can use either a litmus paper or .....**

- A** soda ash
- B** turmeric
- C** sugar
- D** salt

**Answer: B**

**Question 35**

**Nettle plants which grow in the wild protect themselves using:**

- A** hair
- B** thorns
- C** smell
- D** Spray

**Answer: A**

**Question 36**

**Olympic Council of Asia (OCA)has chosen Japanese woman swimmer ..... as winner of Most Valuable Player (MVP)Trophy Award in 2018 Jakarta and Palembang Asian Games.**

- A** Zhang Lin
- B** Katsumi Nakamura
- C** Ryosuke Ire
- D** Rikako Ikee

**Answer: D**

**Question 37**

The 2019 Kumbh Melais held on the site of confluence of the rivers Ganga, Yamuna and .....

- A Saraswati
- B Cauvery
- C Brahmaputra
- D Godavari

**Answer: A**

**Question 38**

Right to Freedom is guaranteed in the article .....

- A 11
- B 21
- C 19
- D 15

**Answer: C**

**Question 39**

'Ottamthullal' is a dance associated with the state of:

- A Kerala
- B Tamil Nadu
- C Andhra Pradesh
- D Manipur

**Answer: A**

**Question 40**

A recent bank merger that has been announced includes Vijaya Bank, Dena Bank, and .....

- A State Bank of India
- B Indian Overseas Bank
- C State Bank of Mysore
- D Bank of Baroda

**Answer: D**

**Question 41**

Name the new chief coach of the Indian cricket team till ICC World Cup 2019.

- A Kapil Dev
- B Anil Kumble
- C Sunil Gavaskar
- D Ravi Shastri

**Answer: D**

**Question 42**

The 3 R's to save the environment are:

- A repair, recycle, reuse
- B reduce, recycle, repair
- C reduce, recycle, reuse
- D reduce, repair, reuse

**Answer: C**

**Question 43**

The cheapest means of transport is:

- A waterways
- B road
- C air
- D railways

**Answer: A**

**Question 44**

The green plants in a terrestrial ecosystem capture about ..... of the energy of sunlight.

- A 4%
- B 2%
- C 1%
- D 3%

**Answer: C**

**Question 45**

**What is the objective of the Constitutional Right to Freedom of Religion in India?**

- A To sustain the principle of capitalism
- B To sustain the principle of secularism
- C To sustain the principle of federalism
- D To sustain the principle of frugalism

**Answer: B**

**Question 46**

**The primary purpose of the RBI monetary policy is to maintain:**

- A wealth
- B exchange rate
- C growth
- D price stability

**Answer: D**

**Question 47**

**We can compare electric current in a conductor to:**

- A a bus ride in a city
- B people walking in street
- C an inter-city train ride
- D water current in rivers

**Answer: D**

**Question 48**

**How are Fiscal Policy and the Federal Reserve similar?**

- A They always must have Congressional approval before passing
- B They both try to promote economic stability
- C They both have a Board of Governors
- D They both use the same tools to fix economic problems

**Answer: B**

**Question 49**

**Algae are useful for humankind because they:**



- A help to fix the ozone layer
- B help to clean dirty places
- C help to create more oxygen
- D help to create more carbon dioxide

**Answer: C**

#### Question 50

The Jallianwalla Bagh incident happened in:

- A Punjab
- B Delhi
- C Kashmir
- D Kerala

**Answer: A**



## Quant

#### Instructions

For the following questions answer them individually

#### Question 51

A shopkeeper organizes sale on Friday, offering a discount of 23% on all items. Still, he makes a profit of 10% only. By how much percentage CP was lower than MP?

- A 20%
- B 10%
- C 15%
- D 30%

**Answer: D**

#### Explanation:

Let the marked price be Rs.100x

Discount 23% of Rs.100x Rs.23x

Selling Price Rs.100x - Rs.23x Rs.77x

Profit 10%

100

Then, Cost Price  $77x \times 110 = Rs.70$

100 - 70

Therefore, Cost Price is less than Marked Price by  $\frac{100 - 70}{100} \times 100 = 30\%$

**Question 52**

Train A took 30 minute to cover a distance of 50 km.If the speed of train B is 40% faster than train A, then the ratio of the respective speed of the both train is:

- A 5 : 3
- B 3 : 5
- C 7 : 5
- D 5 : 7

**Answer:** D

**Explanation:**

Distance 50 km

Time taken 30 min  $\frac{1}{2}$  hour

Then, Speed of train A  $\frac{50}{\frac{1}{2}} = 100$  km/hr

Speed of train B 140% of 100 = 140 km/hr

Required ratio 100 : 140 = 5 : 7.

**Question 53**

The LCM of 779, 943 and 123 is:

- A 71668
- B 53751
- C 35834
- D 17917

**Answer:** B

**Explanation:**

Prime factors of 779 are 19 and 41.

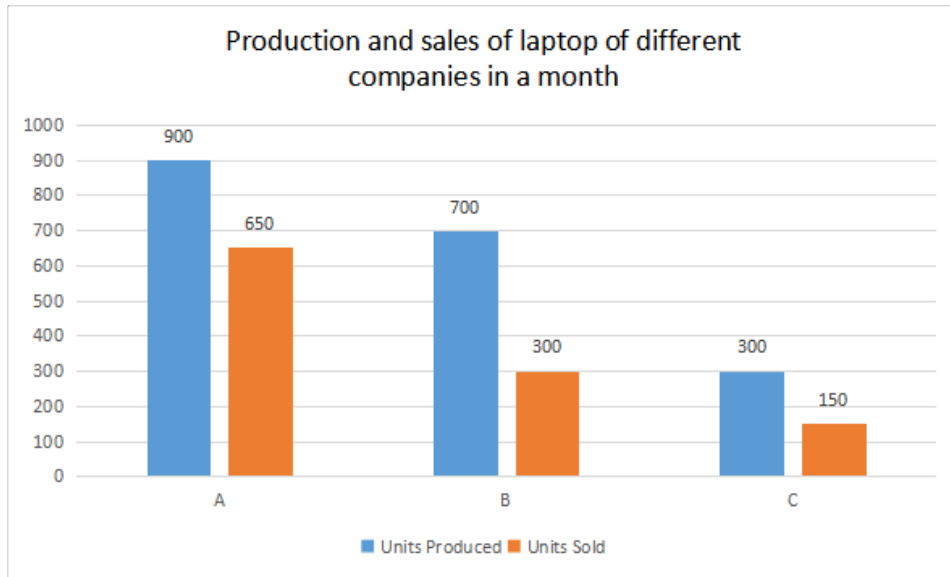
Prime factors of 943 are 23 and 41.

Prime factors of 123 are 3 and 41.

Therefore, LCM of 779, 943 and 123 is  $41 \times 19 \times 23 \times 3 = 53751$

## Question 54

Study the following graph carefully to answer the questions given below.



Percentage of sale of units with respect to its production is between 40% and 43%, in case of company:

- A C
- B B
- C A
- D B and C both

**Answer: B**

**Explanation:**

Percentage of Sale of units with respect to its production for

A  $900 \times 100 = 72.22\%$

B  $700 \times 100 = 42.85\%$

C  $300 \times 100 = 50\%$

Therefore, For Company B, the percentage is between 40% and 43%.

## Question 55

X is twice as good as workman as Y. Together, they finish the work in 18 days. In how many days can it be done by each separately?

- A X 21 days, Y 42 days
- B X 9 days, Y 18 days
- C X 19 days, Y 38 days
- D X 27 days, Y 54 days

**Answer: D**

**Explanation:**

Let the efficiency of Y = 1 unit per day.

Then, The efficiency of X = 2 units per day.

Total efficiency of A and Y together = 3 units per day.

Then, in 18 days, X and Y can do  $18 \times 3 = 54$  units of work.

Hence, Total work = 54 units.

$$54$$

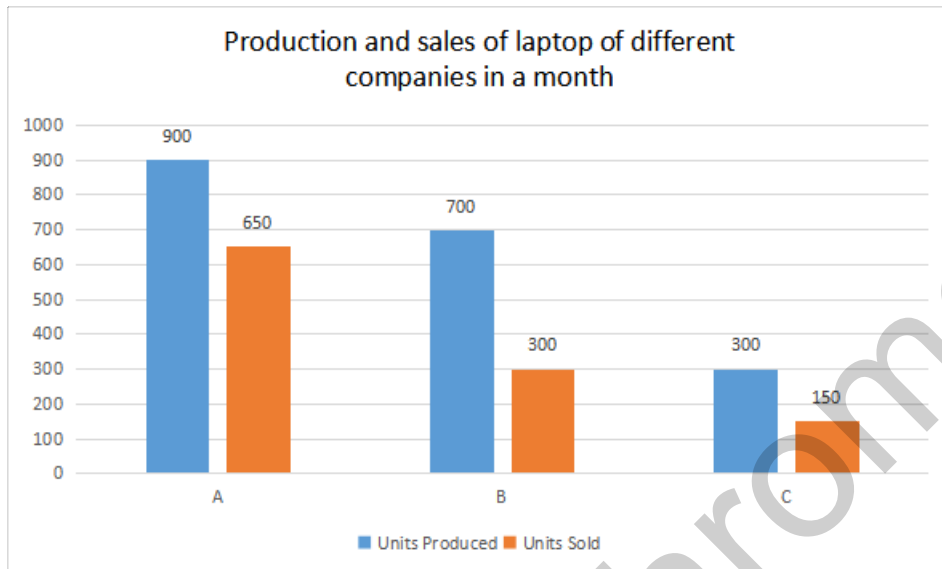
X can do the work individually in  $2 = 27$  days

$$54$$

Y can do the work individually in  $1 = 54$  days.

**Question 56**

Study the following graph carefully to answer the questions given below.



What is the average number of Units of laptop sold by all the Companies together?

A  $410\frac{2}{3}$

B  $391\frac{2}{3}$

C  $366\frac{1}{3}$

D  $366\frac{2}{3}$

Answer: D

**Explanation:**

Units of laptop sold by A = 650 units

Units of laptop sold by B = 300 units

Units of laptop sold by C = 150 units

$$\frac{600 + 300 + 150}{3} = \frac{1100}{3} = 366\frac{2}{3}$$

Therefore, Required average =  $366\frac{2}{3}$

**Question 57**

The sides of a triangle are in the ratio 6 : 4 : 3 and its perimeter is 104 cm. The length of the longest side (in cm) is:

A 48

B 44

C 56

D 120

Answer: A

**Explanation:**

Let the lengths of its sides be 6x cm, 4x cm and 3x cm.

Perimeter  $6x+4x+3x = 13x$  cmGiven,  $13x = 104 \Rightarrow x = 8$ 

Then, Longest side = 6x cm = 48 cm.

**Question 58**

₹ 500 was invested at 12% per annum simple interest and a certain sum of money at 10% per annum simple interest. If the sum of the interests on both the sum after 4 years is ₹ 480, the other sum of money is:

A ₹550

B ₹450

C ₹600

D ₹750

Answer: C

**Explanation:**

Given, One of the principal = Rs.500

Rate of interest = 12%

Time period = 4 years

$$500 \times 12 \times 4$$

Simple Interest =  $\frac{100}{100} = \text{Rs.}240$ 

Let the other principal be Rs.x

Rate of interest = 10%

Time period = 4 years

$$x \times 10 \times 4 = 2x$$

Simple Interest =  $\frac{100}{100} = \text{Rs.} 5$ 

$$\text{Given. } 240 + 5 = 480$$

$$240 + 2x = 480$$

$$2x = 480 - 240$$

$$2x = 240$$

Therefore, The other principal = Rs.600.

**Question 59**

If a sum of ₹ 2000 is lent at 10% p.a. compound interest, what is the interest for the second year?

A ₹225

B ₹200

C ₹220

D ₹440

Answer: C

**Explanation:**

Given, Principal Rs.2000

Rate of interest 10%

Amount for 1st year 110% of Rs.2000 Rs.2200

Amount for second year 110% of Rs.2200 Rs.2420

Therefore, Interest for second year Rs.2420 - Rs.2200 Rs.220.

#### Question 60

$$\frac{4}{5} \div \frac{4}{5} \text{ of } \frac{1}{10} \times \frac{1}{10} = ?$$

A  $\frac{1}{10}$

B  $\frac{1}{15}$

C 1

D  $\frac{1}{5}$

Answer: C

Explanation:

$$\frac{4}{5} \div \frac{4}{5} \text{ of } \frac{1}{10} \times \frac{1}{10} = 5 \times \frac{1}{4} \times \frac{1}{10}$$

$$= 10 \times \frac{1}{10} = 1$$

#### Question 61

In a family of 4 adults and some minors, the average consumption of rice per head per month is 8.5 kg, while the average consumption for adults is 10 kg per head and for minor it is 5.5 kg per head. The number of minors in the family is:

A 3

B 5

C 4

D 2

Answer: D

Explanation:

Let the number of minors be x.

Average food consumption for 4 adults + x minors 8.5 kg

Then, Total food consumption for (x+4) people  $8.5(x+4)$   $8.5x+34$  kg

Average food consumption for 4 adults 10 kg

Total food consumption for 4 adults 40 kg

Average food consumption for x minors 5.5 kg

Total food consumption for x minors  $5.5x$  kg

Then,  $5.5x+40 = 8.5x+34$

$$5.5x + 40 = 8.5x + 34$$

Therefore, Number of minors = 2.

#### Question 62

In a circular garden of radius 15 m, a path of 2 m wide has to be made inside the garden at the rate of ₹ 24 per sq. m. The cost of making the path is: (Take  $\pi = \frac{22}{7}$ )

- A ₹4100
- B ₹3864
- C ₹4224
- D ₹4355

**Answer: C**

**Explanation:**

Radius of garden = 15 m

Inner radius without path = 13 m

$$\text{Area of the garden} = \frac{22}{7} \times (15^2 - 13^2) = \frac{22}{7} \times (15 + 13) \times (15 - 13)$$

$$= \frac{22}{7} \times 28 \times 2 = 176m^2$$

Cost per sq.m = Rs.24

Therefore, Cost for 176 sq.m =  $24 \times 176$  = Rs.4224

**Question 63**

A, B and C contract a work for ₹ 550 together. A and B are supposed to do  $\frac{7}{11}$  of the work. The amount that C gets is:

- A ₹200
- B ₹210
- C ₹100
- D ₹150

**Answer: A**

**Explanation:**

Given, A and B are supposed to do  $\frac{7}{11}$  of work.

Then, C does remaining  $\frac{4}{11}$  of work

Therefore, Amount that C gets =  $\frac{4}{11} \times 550 = Rs.200$

**Question 64**

A hollow cylinder with outer radius 4 cm and height 2 cm is made up of 1 cm thick metal sheet. What is the volume of metal used?

(Take  $\pi = \frac{22}{7}$ )

- A  $40 \text{ cm}^3$
- B  $56 \text{ cm}^3$
- C  $44 \text{ cm}^3$
- D  $65 \text{ cm}^3$

**Answer: C**

**Explanation:**

Outer radius of cylinder = 4 cm

Thickness = 1 cm

Then, Inner radius = 3 cm

Height = 2 cm

Then, Volume of the metal =  $\pi(R^2 - r^2)h$  where R = Outer radius, r = Inner radius and h = Height.

$$\text{Volume} = \pi \times (4^2 - 3^2) \times 2$$

$$= \pi \times 7 \times 1 \times 2 \quad (\because (a^2 - b^2) = (a + b)(a - b))$$

$$= 44\text{cm}^2$$

**Question 65**

A person wants to sell an item at a profit of 20% but he sold it for ₹ 480 at a loss of 20%. At what price should have he sold it to get the required profit?

- A ₹840
- B ₹600
- C ₹750
- D ₹720

**Answer: D****Explanation:**

Let the Cost Price be Rs.100x

Loss = 20%

Then, Selling Price = 80% of Rs.100x = Rs.80x

Given, 80x = Rs.480

$$x = \frac{480}{80} = \text{Rs.}6$$

Then, Cost Price = Rs.100x = Rs.600

Required profit = 20%

Then, Selling Price = 120% of Rs.600 = Rs.720.

**Question 66**

What approximate value should come in place of the question mark (?) in the following equation?

$$\left(9 \div \frac{1}{9} \text{ of } \frac{1}{3}\right) \text{ of } \frac{1}{6} = ?$$

- A  $\frac{1}{6}$
- B  $\frac{1}{2}$
- C  $\frac{1}{9}$
- D  $\frac{1}{3}$

**Answer: B****Explanation:**

$$\left(9 \div \frac{1}{9} \text{ of } \frac{1}{3}\right) \text{ of } \frac{1}{6} = \left(9 \div \frac{1}{27}\right) \text{ of } \frac{1}{6}$$

$$= 9 \times 27 \text{ of } \frac{1}{6}$$



$$= 3 \times \frac{1}{6} = \frac{1}{2}$$

**Question 67**

The ratio of time taken by A and B to cover a certain distance is 7 : 9. The ratio of their respective speed will be:

- A 7:9
- B 7:3
- C 3:7
- D 9:7

**Answer:** D

**Explanation:**

Let the distance be x km.

Let the time taken by A and B to cover x km be 7a hours and 9a hours respectively.

$$\frac{x}{7a} : \frac{x}{9a} = \frac{1}{7} : \frac{1}{9}$$

Then, Ratio of their speeds  $7a : 9a = 7 : 9 = 9 : 7$

**Question 68**

The average of 2 numbers is ab. If one of the number is a, the other is:

- A  $2ab - b$
- B  $2a - b$
- C  $2ab - a$
- D  $2b - a$

**Answer:** C

**Explanation:**

Given, Average of two numbers = ab

One number is a.

Let the other number be x.

$$\frac{a + x}{2} = ab$$

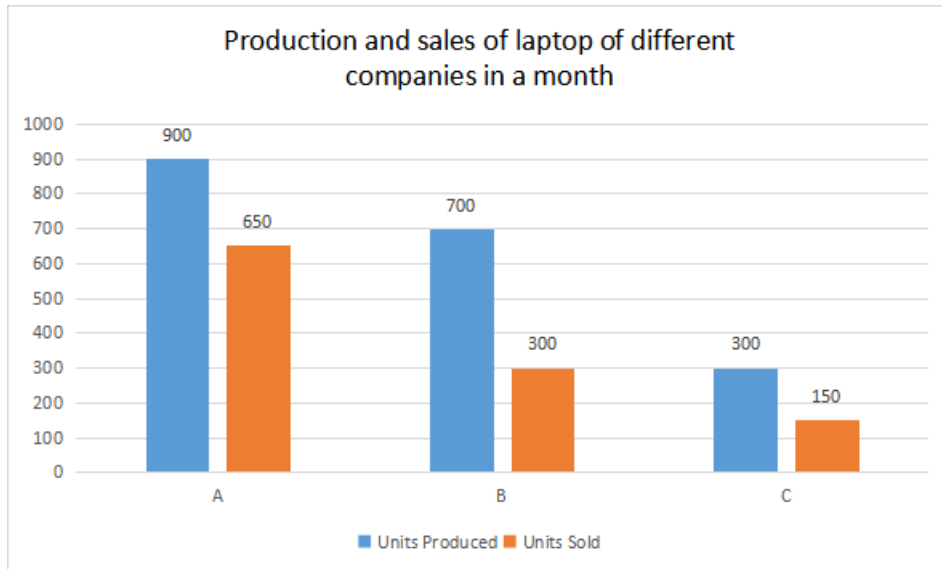
$$a + x = 2ab$$

$$x = 2ab - a$$

Therefore, The other number is  $2ab - a$ .

## Question 69

Study the following graph carefully to answer the questions given below.



What is the average number of Units produced by all the Companies together?

A  $625\frac{1}{3}$

B  $633\frac{1}{3}$

C  $633\frac{2}{3}$

D  $623\frac{1}{3}$

Answer: B

**Explanation:**

Number of units produced by A 900 units

Number of units produced by B 700 units

Number of units produced by C 300 units

$$900 + 700 + 300 \quad \quad \quad 1$$

$$\text{Therefore, Required Average} = \frac{900 + 700 + 300}{3} = 633.33 = 633\frac{1}{3}$$

## Question 70

The mode of a distribution is 24 and the mean is 60. What is its median?

A 48

B 50

C 45

D 51

Answer: A

**Explanation:**

The relationship between Mean, Median and Mode is

$$\text{Mean} - \text{Median} = 3(\text{Mean} - \text{Mode})$$

Given, Mean = 60

Mode = 24

Then,  $60 - 24 = 3(60 - \text{Median})$   
 $> 36 = 3(60 - \text{Median})$   
 $> 12 = 60 - \text{Median}$   
 $> \text{Median} = 48.$

**Question 71**

If 20% of A = 35% of B, then A : B =

- A 5 : 7
- B 2 : 3
- C 7 : 4
- D 1 : 2

**Answer:** C

**Explanation:**

Given, 20% of A = 35% of B  
 $> 20A = 35B$   
 $> 4A = 7B$   
 $\frac{A}{7} = \frac{B}{4}$   
 $> B = 4$

Therefore, A : B = 7 : 4

**Question 72**

The ratio of the present age of Mahesh and Ajay is 3 : 2 respectively. After 8 years. Ratio of their age will be 11 : 8. What will be the present age of Mahesh's son if his age is half of the present age of Ajay?

- A 15 years
- B 16 years
- C 12 years
- D 18 years

**Answer:** C

**Explanation:**

Let the present ages of Mahesh and Ajay be  $3x$  years and  $2x$  years respectively.  
 Then, Their ages after 8 years will be  $3x+8$  years and  $2x+8$  years.

$\frac{3x + 8}{2x + 8} = \frac{11}{8}$   
 Given,  $2x + 8 = 8$

$$24x + 64 = 22x + 88$$

$$> 2x = 24$$

$$> x = 12$$

Then, Present ages of Mahesh and Ajay are 36 years and 24 years respectively.

Present age of Mahesh's son = Half of Present age of Ajay = 12 years.

**Question 73**

Two adjacent sides of a parallelogram are 12 cm and 9 cm and one of the angle is  $30^\circ$ . Find the area of parallelogram.

- A 27 sq. cm

- B 54 sq. cm  
C 108 sq. cm  
D 96 sq. cm

**Answer: B**

**Explanation:**

Area of a parallelogram  $absin\theta$  where a and b are two adjacent sides and  $\theta$  is the angle between them.

Then, Area of the parallelogram  $12 \times 9 \times \sin 30^\circ$

$$108 \times \frac{1}{2} = 54cm^2$$

**Question 74**

If 50% of a certain number is equal to  $\frac{3}{4}$  of another number, what is the ratio between the numbers?

- A 5 : 2  
B 2 : 5  
C 3 : 4  
D 3 : 2

**Answer: D**

**Explanation:**

Given, 50% of a number  $\frac{3}{4}$  of another number

$$\frac{1}{2}x = \frac{3}{4}y$$

Let the two numbers be x and y

$$2x = 3y$$

$$\frac{2x}{3} = y$$

$$y = \frac{2}{3}x$$

Therefore, x : y = 3 : 2.

**Question 75**

When the price of a cycle is decreased by 20%, then the selling price is increased by 20%. What is the impact on the receipt of the revenue?

- A 4% loss  
B 5% profit  
C No profit no loss  
D 4% profit

**Answer: A**

**Explanation:**

Let the price of the cycle be Rs. 100x

Cost Price of the cycle when decreased by 20% = 80% of Rs. 100x = Rs. 80x

Selling Price increased by 20% = 120% of Rs. 80x = Rs. 96x

$$\text{Therefore, Loss percentage} = \frac{100x - 96x}{100x} \times 100 = 4\%$$

## English

### Instructions

For the following questions answer them individually

### Question 76

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No substitution required.

The merchant distributes work among the weavers based on the orders received.

- A among all of the weavers
- B between weaver
- C among weaver
- D No substitution required

Answer: D

### Question 77

Select the most appropriate word to fill in the blank.

By her ..... manner, she made herself liked by everyone who met her.

- A sublime
- B curious
- C winsome
- D victorious

Answer: C

### Question 78

Select the wrongly spelt word.

- A Guarantee
- B Grateful
- C Goverment
- D Grandeur

Answer: C

### Question 79

Select the synonym of the given word.

ATTAIN

- A Prosper
- B Abandon
- C Achieve
- D Lose

**Answer: C**

#### Question 80

Select the word which means the same as the group of words given.  
A person of unconventional and slightly strange views or behaviour

- A Conventional
- B Eccentric
- C Wholesome
- D Traditional

**Answer: B**

#### Question 81

Select the most appropriate word to fill in the blank.  
The wages of daily workers are fixed according ..... their skills.

- A to
- B from
- C with
- D of

**Answer: A**

#### Question 82

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No substitution required.

People in urban areas could have entered markets without stepping out of their homes via the Internet.

- A No substitution required
- B can entered markets
- C could entered markets
- D can enter markets

**Answer: D**

**Instructions**

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Passage:

A dam is built across a river at sites where one can (1)..... a lot of water. This forms (2)..... reservoir and as the water collects, it (3)..... vast areas of land. This is (4)..... the wall of the dam across the river is high and the (5)..... spreads over a large area.

**Question 83**

Select the most appropriate option that will fill in the blank number 1.

- A collect
- B dispose
- C flow
- D assemble

Answer: A

**Question 84**

Select the most appropriate option that will fill in the blank number 2.

- A a
- B the
- C one
- D an

Answer: A

**Question 85**

Select the most appropriate option that will fill in the blank number 3.

- A separates
- B divides
- C ruins
- D submerges

Answer: D

**Question 86**

Select the most appropriate option that will fill in the blank number 4.

- A though
- B yet
- C because

D so

**Answer: C**

**Question 87**

Select the most appropriate option that will fill in the blank number 5.

A dam

B land

C river

D water

**Answer: D**

**Instructions**

For the following questions answer them individually

**Question 88**

Select the word which means the same as the group of words given.

A solution or remedy for all difficulties or diseases.

A Riddle

B Panacea

C Ailment

D Dilemma

**Answer: B**

**Question 89**

Select the meaning of the given idiom.

To take heart

A To take matter seriously

B To be emotional

C To gain confidence

D To love everyone

**Answer: C**

**Question 90**

Select the wrongly spelt word.

A Glamourous

B Gauge

C Grandure



D Grievous

**Answer: C**

**Question 91**

**Identify the segment in the sentence which contains the grammatical error from the given options.  
One of the advantages of weekly markets is that much things are available at one place.**

A weekly markets

B much things

C one place

D One of the

**Answer: B**

**Question 92**

**Select the meaning of the given idiom.  
To beat about the bush**

A To punish an innocent person

B To be aggressive

C To talk too much

D To avoid coming to the point

**Answer: D**

**Question 93**

**Select the most appropriate word to fill in the blank.  
All attempts to ..... our late leader have failed. People still love him and cherish his memory.**

A damage

B demolish

C distress

D defame

**Answer: D**

**Question 94**

**Select the antonym of the given word.  
MOURNFUL**

A Sorrowful

B Melancholy

C Depressed

D Joyous

Answer: D

**Question 95**

Select the antonym of the given word.

**EVIDENT**

A Apparent

B Conspicuous

C Obscure

D Noticeable

Answer: C

**Question 96**

Select the most appropriate word to fill in the blank.

When dams are built, thousands of people .....

A is displaced

B were displaced

C was displaced

D are displaced

Answer: D

**Question 97**

Select the synonym of the given word.

**ANNOY**

A Please

B Satisfy

C irritate

D Gratify

Answer: C

**Question 98**

Identify the segment in the sentence which contains the grammatical error from the given options.

Sujata and Kavita were sent to buy groceries for their neighborhood shop.

A were sent

B for their

- C to buy
- D Sujata and Kavita

**Answer: B**

**Question 99**

**Identify the segment in the sentence which contains the grammatical error from the given options.  
In clinics, you may have noticed sales representatives waiting with doctors.**

- A may have noticed
- B waiting with
- C In clinics
- D sales representatives

**Answer: B**

**Question 100**

**Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No substitution required.**

**Very often, the small farmers needed to borrowed money to meet high expenses.**

- A needs to borrow
- B need to borrow
- C No substitution required
- D needing to borrow

**Answer: B**



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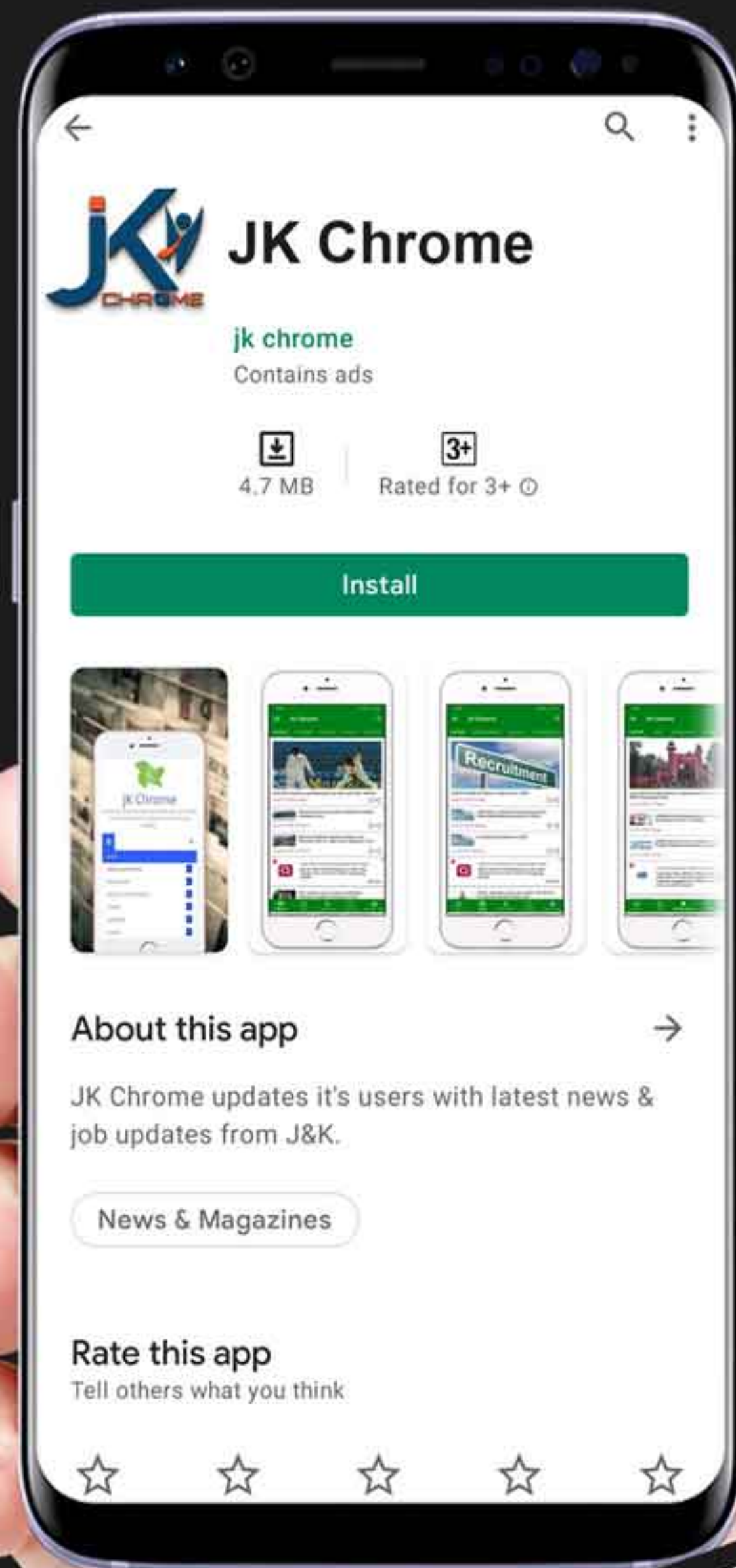
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