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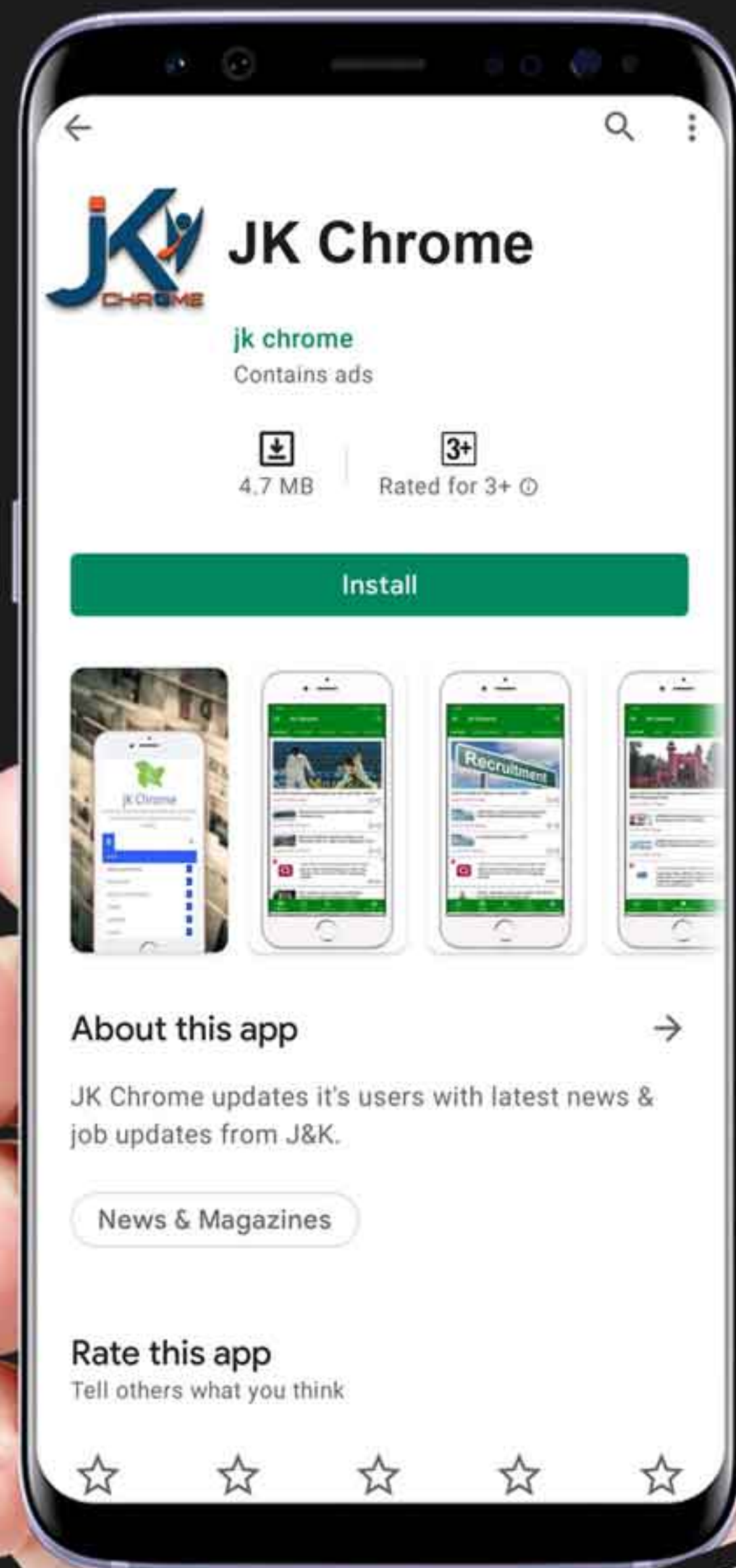
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# SSC GD 6th March 2019 Shift-2

## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

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

Day: Night :: Morning :

A Planet

B Star

C Air

D Evening

Answer: D

### Explanation:

Since, Day is related to Night therefore, Morning is related to Evening.

Option D is correct.

### Question 2

Six kids are sitting in two rows facing north. Their names are Fuji, Ukain, Yam and Krish, Charlie, Mac. Fuji and Mac are sitting diagonally opposite. Ukain is in the top row and to the immediate right of Fuji. Krish is second to the left of Mac while Yam and Krish are not in the same row.

Who is sitting opposite to Charlie?

A Krish

B Ukain

C Yam

D Fuji

Answer: B

### Explanation:

Six kids are sitting in two rows facing north namely Fuji, Ukain, Yam and Krish, Charlie, Mac.

- 1. Fuji and Mac are sitting diagonally opposite.
- 2. Ukain is in the top row and to the immediate right of Fuji.
- 3. Krish is second to the left of Mac while Yam and Krish are not in the same row.

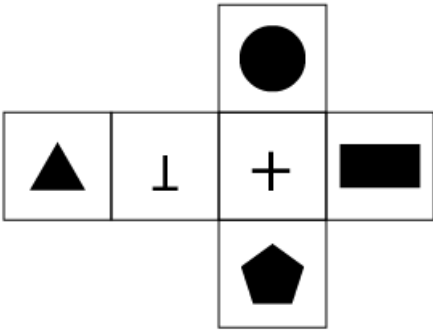
Using these we get the following sitting arrangement.

FUJI	UKAIN	YAM
KRISH	CHARLIE	MAC

So, Ukain is sitting opposite to Charlie.

## Question 3

The following figure is folded to form a box. Which symbol will appear on the opposite side of ▲ ?



- A ⊥
- B ●
- C +
- D ▭

Answer: C

**Explanation:**

If you fold it to form a box, then the triangle will come on top and will have the ⊥ on the opposite side.

Option C is correct.

## Question 4

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

- A Bag
- B Basket
- C Bowl
- D Wheelbarrow

Answer: D

**Explanation:**

Bag, Basket and Bowl do not have a wheel whereas, a wheel barrow is a single wheel self propelled vehicle mainly used in lawns or garden. So option D is the odd one out.

Option D is correct

**Question 5**

Find the missing number from the below options.

72	18
54	

64	?
38	

- A 24
- B 26
- C 18
- D 22

**Answer:** B

**Explanation:**

72-54 = 18

64-38 = 26

Option B is correct.

**Question 6**

In a certain code, SACK is coded as RZBJ, then how is AMOUNT coded in the same way?

- A ZLNSMT
- B ZLNMTS
- C ZLTNMS
- D ZLNTMS

**Answer:** D

**Explanation:**

SACK is coded as RZBJ

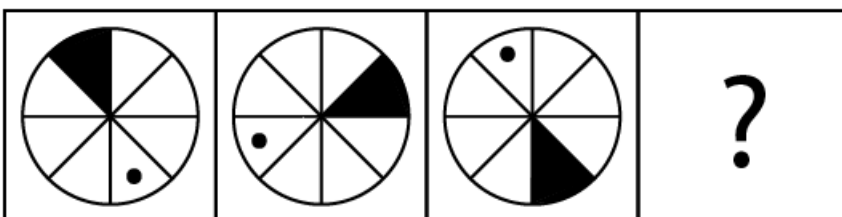
Here, every letter in the code is the previous letter of the corresponding letters in the alphabetical series, i.e R is previous letter of S, Z is for A, B is for C and J is for K.

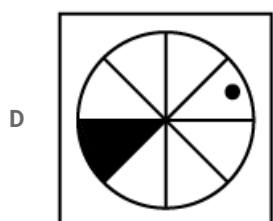
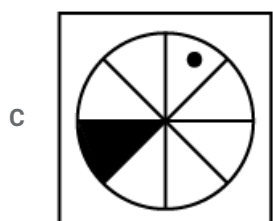
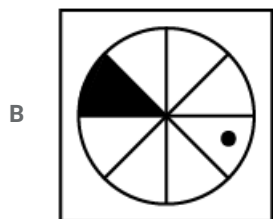
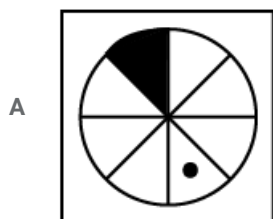
Similarly, AMOUNT is coded as ZLNTMS.

Option D is correct.

**Question 7**

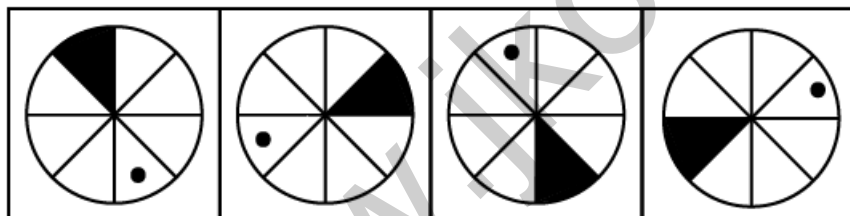
Choose the option which completes the given figure series.





Answer: D

Explanation:



The shaded slice of the pie and the dotted one are shifting 45 degrees clockwise.

Option D is correct.

Question 8

Eight people A, B, C, D, E, F, G and H are sitting around a circular table. A and B are facing towards the centre while the other six people are facing opposite the centre. A is sitting second to the right of H. B sits third to the left of A. D sits second to the right of G. G is neither an immediate neighbor of B nor A. E and F are immediate neighbors and are facing out side.

Who is sitting second to the left of G?

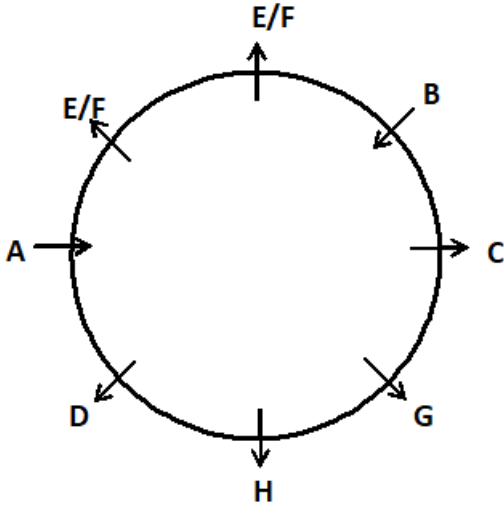
- A B
- B D
- C C
- D F

**Answer: A**

**Explanation:**

Eight people A, B, C, D, E, F, G and H are sitting around circular table.

1. A and B are facing towards the centre while the other six people are facing opposite the centre.
2. A is sitting second to the right of H. B sits third to the left of A.
3. G is neither an immediate neighbor of B nor A. D sits second to the right of G.
4. E and F are immediate neighbors and are facing out side.



B sitting second to the left of G.

Option A is correct.

**Question 9**

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

- A 51-24
- B 32-41
- C 36-59
- D 61-34

**Answer: C**

**Explanation:**

Sum of the digits of the numbers on both sides of are equal.

$$5+1 = 2+4$$

$$3+2 = 4+1$$

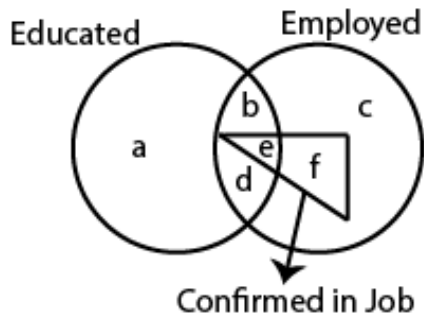
$$3 + 6 \neq 5 + 9$$

$$6+1 = 3+4$$

Option C is correct.

## Question 10

Read the given figure and find the region representing persons who are educated and employed but not confirmed in job.



A abe

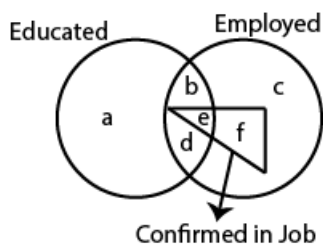
B bd

C adc

D ac

Answer: B

Explanation:



From the above figure we see that **b** and **d** are the two regions representing persons who are educated and employed but not confirmed in job.

Option B is correct.

## Question 11

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

18, 36, 108, 432, 2160, ..... ..

A 15200

B 12960

C 12690

D 14200

Answer: B

Explanation:

$$18 \times 2 = 36$$

$$36 \times 3 = 108$$

$$108 \times 4 = 432$$

$$432 \times 5 = 2160$$

$$2160 \times 6 = 12960$$

18, 36, 108, 432, 2160, 12960

Option B is correct.

### Question 12

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

India : Country :: Delhi : .....

- A Continent
- B District
- C Capital
- D Red Fort

**Answer:** C

### Explanation:

As per the question, India is a country, and Delhi is the capital of India.

India : Country :: Delhi : Capital

Option C is correct.

### Question 13

The statements below are followed by conclusions labeled I, II and III. 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 twenty are thirty.

All thirty are forty.

All forty are sixty.

All sixty are seventy.

### Conclusions:

I. Some forty are thirty.

II. Some seventy are sixty.

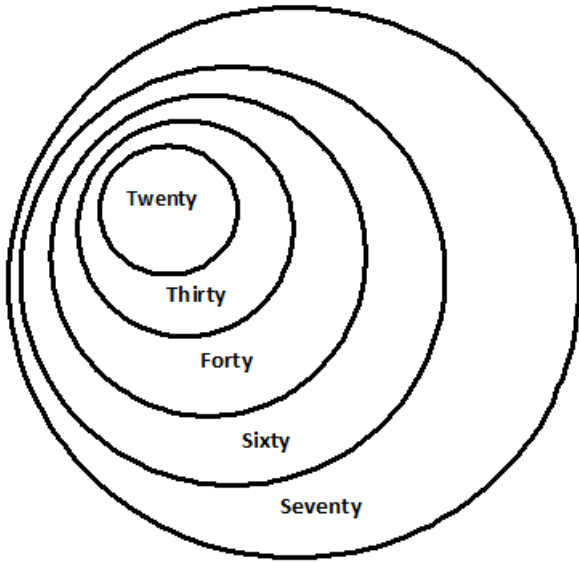
III. No thirty is twenty.

- A Only I and II follow
- B All, I, II and III follow
- C Only I and III follow
- D Only II and III follow

**Answer:** A

### Explanation:





From the above statements we can conclude,

- . Some forty are thirty - Follows
- I. Some seventy are sixty - Follows
- II. No thirty is twenty - Does not follow

Option A is correct

**Question 14**

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 Strong are animals.
- Some animals are Tigers.
- All Tigers are Sharp.

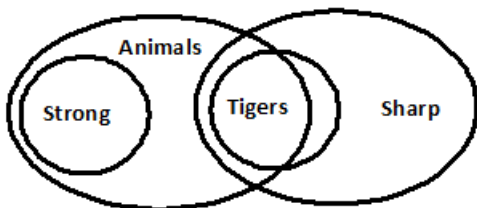
**Conclusions:**

- . Some Strong are Sharp.
- I. No Strong is Sharp.

- A Only conclusion II follows
- B Neither conclusion I nor II follows
- C Either conclusion I or II follows
- D Only conclusion I follows

**Answer: C**

**Explanation:**



As per the given statements,

Conclusion 1 and Conclusion 2 are false independently, but together either of them can be true.

Option C is correct.

**Question 15**

If B is coded as 2, F is coded as 8, C is coded as 4, G is coded as 3, H is coded as 0, A is coded as 1, and N is coded as 7, then what is the coded form of HNCGB?

- A 04237
- B 07423
- C 07243
- D 07432

**Answer:** D

**Explanation:**

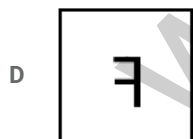
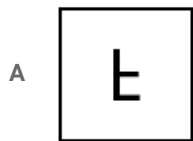
B is coded as 2, C is coded as 4, G is coded as 3, H is coded as 0, N is coded as 7

herefore, HNCGB is coded as 07432.

Option D is correct.

**Question 16**

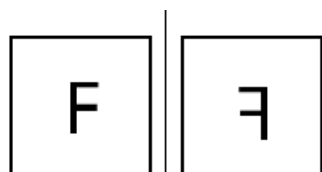
Choose the option that most closely resembles the mirror image of the given figure when mirror is placed at right side.



**Answer:** D

**Explanation:**

The mirror image when mirror is placed at right side.



Option D is correct.

**Question 17**

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

- A RUVX
- B GHJK
- C MPQS
- D FIJL

**Answer:** B

**Explanation:**

Here if we check options A, C and D we find a common pattern, for example in option A, **RUVX** the first two letters i.e. R and U has a gap of 2 letters, then U and V has a 0 gap, and finally a 1 letter gap between the last two letters, i.e V and X.

But Option B violates this and so is odd one in the cluster.

Option B is correct.

**Question 18**

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

**MATE: NATE :: FATE: ?**

- A JATE
- B UATE
- C CATE
- D LATE

**Answer:** B

**Explanation:**

**MATE: NATE :: FATE: ?**

In MATE and NATE, 'ATE' is same in both and only difference lies in M and N.

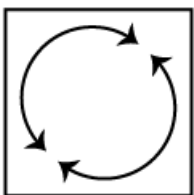
As we know that M and N are opposite alphabets of each other, so for F the opposite letter is U

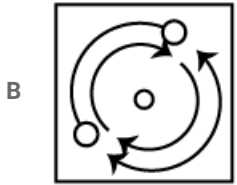
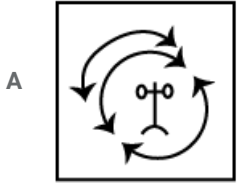
therefore FATE : UATE

Option B is correct.

**Question 19**

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

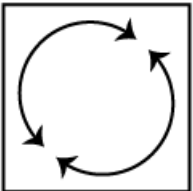




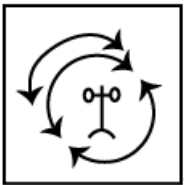
Answer: A

**Explanation:**

We can see that the given figure,



is hidden in the Option A



Option A is correct.

**Question 20**

M,N, O and P are playing cards sitting opposite each other. M is on the right of N and P is on the left of O. Then which of the following are partners?

- A M and N
- B M and P
- C N and P

D P and O

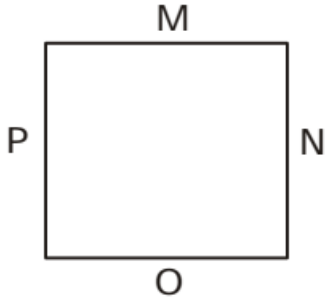
**Answer:** C

**Explanation:**

As per the question,

M,N, O and P are playing cards sitting opposite each other.

M is on the right of N and P is on the left of O. So if we draw the seating arrangement we get N and P are partners



Option C is correct.

**Question 21**

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

13 : 196 :: 9 : .....

A 100

B 111

C 131

D 121

**Answer:** A

**Explanation:**

13 : 196 :: 9 : ....

As we know  $14^2 = 196$

So, 13 :  $(13 + 1)^2$  and therefore 9 :  $(9 + 1)^2$

13 : 196 :: 9 : 100

Option A is correct.

**Question 22**

Select the correct combination of mathematical signs to replace '\*' signs and to balance the given equation.

$32 * 8 * 14 * 7 * 16$

A  $\times - + =$

B  $\div \times - =$

C  $+ = \div \times$

D  $- \times \div =$

**Answer:** D

**Explanation:**

We will check all the options one by one on the given equation,

$32 * 8 * 14 * 7 * 16$

From Option D we get,

$$= 32 - 8 \times 14 \div 7$$

$$= 32 - 8 \times 2$$

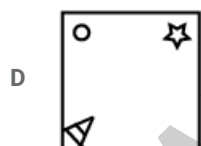
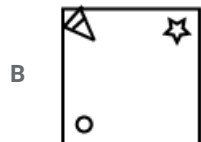
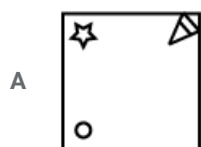
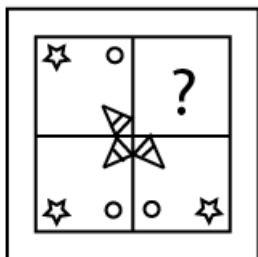
$$= 32 - 16 = 16$$

So this satisfies the equation,  $= 32 - 8 \times 14 \div 7 = 16$

Option D is the correct answer.

### Question 23

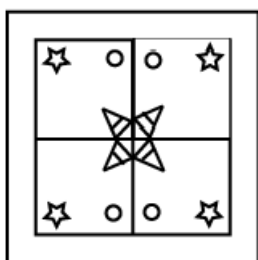
Which of the following answer figure will complete the given figure?



Answer: D

### Explanation:

The top right of the figure is missing, so Option D is the perfect match for the figure.



Option D is the correct answer.

**Question 24**

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

T, R, P, N, L, ....., .....

A J, H

B K, I

C J, G

D K, H

**Answer:** A

**Explanation:**

$$T \rightarrow (-2)R \rightarrow (-2)P \rightarrow (-2)N \rightarrow (-2)L \rightarrow (-2)J \rightarrow (-2)H$$

Option A is correct.

**Question 25**

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

52, 56, 65, 81, 106, .....

A 132

B 140

C 142

D 122

**Answer:** C

**Explanation:**

$$56 - 52 = 4 = 2^2$$

$$65 - 56 = 9 = 3^2$$

$$81 - 65 = 16 = 4^2$$

$$106 - 81 = 25 = 5^2$$

$$142 - 106 = 36 = 6^2$$

Option C is correct.

## General knowledge

**Instructions**

For the following questions answer them individually

**Question 26**

Who was the world's first woman amputee to climb Mount Vinson?

A Bachendri Pal

B Arunima Sinha

C Santosh Yadav

D Premlata Agarwal

**Answer: B**

**Question 27**

**Who is the founder of Grameen Bank?**

A Muhammad Yunus

B Abdullah Abu Sayed

C Anu Muhammad

D Atiur Rahman

**Answer: A**

**Question 28**

**The magazine in which Mahatma Gandhi mentioned what he wanted the Constitution to do is:**

A Young India

B Harijan

C Navajivan

D Oriental Magazine

**Answer: A**

**Question 29**

**When goods are produced by exploiting natural resources it is an activity associated with:**

A primary sector

B secondary sector

C tertiary sector

D service sector

**Answer: A**

**Question 30**

**Who was the first one to use a glass prism to obtain the spectrum of sunlight?**

A James Clerk Maxwell

B Hans Christian Oersted

C Albert Einstein

D Isaac Newton



**Answer: D**

**Question 31**

A ..... is a formal document containing an order of the court to the Government issued only by the High Court or the Supreme Court of India.

- A Summon
- B Claim
- C Covenant
- D Writ

**Answer: D**

**Question 32**

Any section of citizens with a distinct language or culture have a right to ..... it

- A Conserve
- B Squander
- C Uproot
- D Annihilate

**Answer: A**

**Question 33**

A system in which local farmers were allowed to cultivate temporarily within a plantation is known as:

- A shifting cultivation
- B intensive cultivation
- C extensive cultivation
- D taungya cultivation

**Answer: D**

**Question 34**

Which gas shields the surface of the earth from ultraviolet radiation from the sun?

- A Nitrogen
- B Carbon dioxide
- C Oxygen
- D Ozone

**Answer: D**

**Question 35**

What is grown as a kharif crop in the northern and rabi crop in the southern part of India?

- A Linseed
- B Sesamum
- C Mustard
- D Groundnut

**Answer: B**

**Question 36**

Which event is marked as an Intangible Cultural Heritage of Humanity by UNESCO?

- A Suraj Kund Mela
- B Pushkar Mela
- C Kumbh Mela
- D Tarnetar Mela

**Answer: C**

**Question 37**

What is deposited on iron in the process of Galvanization?

- A aluminium
- B zine
- C copper
- D tin

**Answer: B**

**Question 38**

The soil ideal for growing cotton is:

- A black soil
- B alluvial soil
- C arid soil
- D laterite soil

**Answer: A**

**Question 39**

Who has been conferred with the rank of the Commander of the Order of the British Empire in 2018?

- A Talvin Singh
- B Nitin Sawhney
- C Rajinder Rai
- D Tjinder Singh

**Answer: B**

**Question 40**

Which award is given for contribution towards national integration?

- A Tilak Award
- B Sardar Patel Award
- C Gita Chopra Award
- D Rajiv Gandhi Award

**Answer: B**

**Question 41**

On which river is the Hirakud Dam situated?

- A Sutlej
- B Kaveri
- C Mahanadi
- D Bhagirathi

**Answer: C**

**Question 42**

Which element is used for making solar cells?

- A Silicon
- B Sodium
- C Silver
- D Sulphur

**Answer: A**

**Question 43**

Which goods from India dominated the international textile markets before the age of mechanised industries?

- A Cotton goods
- B Woollen goods
- C Silk and cotton goods
- D Silk goods

**Answer: C**

**Question 44**

**Which organization is under the Ministry of Statistics, Planning and Programme Implementation?**

- A National Sample Survey Organisation
- B Central Survey Organisation
- C Central Sample Survey Organisation
- D National Survey Organisation

**Answer: A**

**Question 45**

**Which of the following options is a martial arts form associated with Tamil Nadu?**

- A Silambam
- B Thoda
- C Kalari Payattu
- D Thang-ta

**Answer: A**

**Question 46**

**Tooth decay starts when the pH of our mouth is:**

- A higher than 5.5
- B higher than 7.5
- C higher than 6.5
- D lower than 5.5

**Answer: D**

**Question 47**

**Who directed the film 'Bhuvan Shome'?**

- A Ritwik Ghatak
- B Satyajit Ray

- C Buddhadeb Dasgupta
- D Mrinal Sen

**Answer: D**

#### Question 48

The book "In my mother's house" is written by .....

- A Sharika Thiranagama
- B Rajiva Wijesinha
- C Shyam Selvadurai
- D Nihal De Silva

**Answer: A**

#### Question 49

The Imperial Forest Research Institute was set up in 1906 in:

- A Bhopal
- B Dehradun
- C Almora
- D Bangalore

**Answer: B**

#### Question 50

In which state is Vishwa Mitra Ka Tila situated?

- A Rajasthan
- B Uttaranchal
- C Haryana
- D Punjab

**Answer: C**

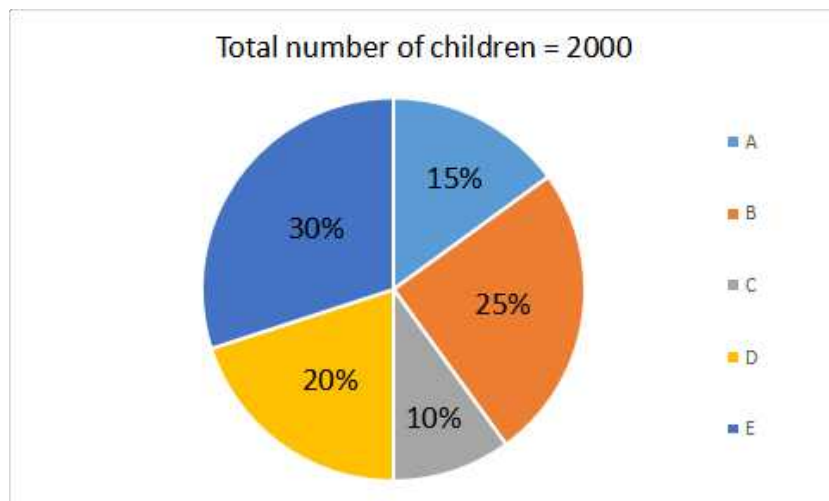
## Quant

#### Instructions

For the following questions answer them individually

## Question 51

Study the following pie-charts carefully to answer the questions.



If 70 percent children from village D go to school then what is the number of children attending school from village D ?

- A 280
- B 400
- C 320
- D 360

Answer: A

## Question 52

Rohit and Dinesh are 64 km apart. Rohit can walk at a speed of 15 km/hr and Dinesh at the speed of 17 km/hr. In how many hours will they meet if they are travelling towards each other?

- A 2.5 hour
- B 2 hour
- C 3 hour
- D 1.5 hour

Answer: B

## Question 53

A frog was, at the bottom of a 80 m deep well. It attempted to come out of it by jumping. In each jump it covered 1.15 m but slipped down by 0.75 m. The number of jumps after which it would out of the well is:

- A 200
- B 198
- C 201
- D 199

Answer: D

**Question 54**

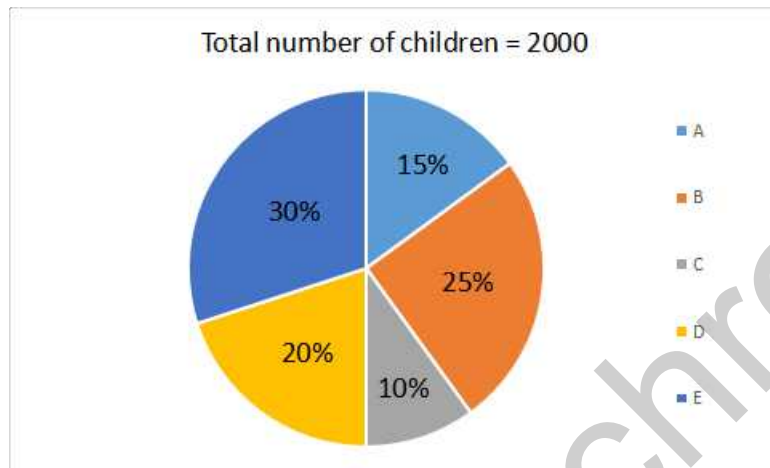
Yashwant buys candies at 15 for ₹40 and sells them at 30 for ₹50. What is his gain or loss percent?

- A 37.5% Profit
- B 40 % Loss
- C 36 % Profit
- D 37.5% Loss

**Answer: D**

**Question 55**

Study the following pie-charts carefully to answer the questions.  
Percentage break-up of number of children in five different villages



What is the respective ratio of total number of children from village A to village C ?

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

**Answer: D**

**Question 56**

What should come in place of question mark (?) in the following questions?

$$383 \div 25 \times 2.5 + 12 = ?$$

- A 68.30
- B 222.14
- C 50.30
- D 124.24

**Answer: C**

**Question 57**

The average age of Indian cricket team playing in the Capetown test match is 28 years. If the average age of 10 player besides the caption is 27.8 years, then the age of the Caption is:

- A 31 Years
- B 26 Years
- C 25 Years
- D 30 Years

**Answer:** D

**Explanation:**

Given, Average age of 11 players = 28 years

then, Total age of 11 players =  $28 \times 11 = 308$  years

Average age of 10 players excluding captain = 27.8 years

then, Total age of 10 players =  $27.8 \times 10 = 278$  years

herefore, The age of the captain =  $308 - 278 = 30$  years.

**Question 58**

The third proportional to 9 and 15 is:

- A 18
- B 36
- C 27
- D 25

**Answer:** D

**Explanation:**

Let the third proportional to 9 and 15 be  $x$ .

$9 : 15 :: 15 : x$

$$> 15 \times 15 = 9x$$

225

$$> x = \frac{225}{9}$$

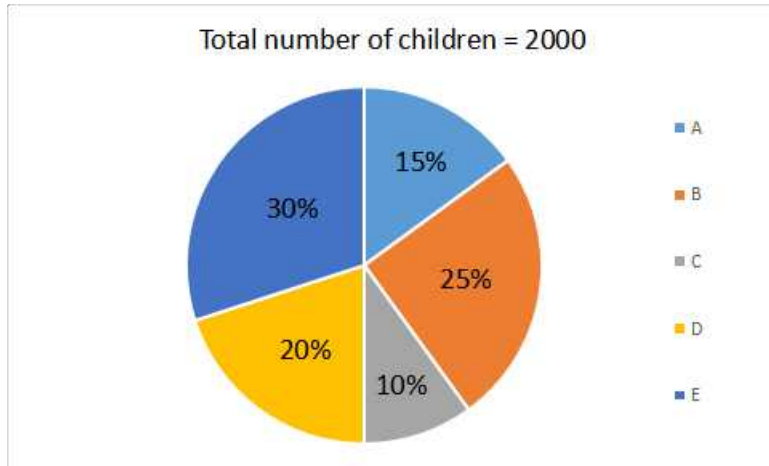
$$> x = 25$$

herefore, The third proportional to 9 and 15 is 25.



## Question 59

Study the following pie-charts carefully to answer the questions.  
Percentage break-up of number of children in five different villages



What is the total number of children in villages B and E ?

- A 1200
- B 1400
- C 1145
- D 1100

Answer: D

## Explanation:

Number of children in B = 25% of 2000

Number of children in E = 30% of 2000

Total number of children in B and E together = 25% of 2000 + 30% of 2000 = 55% of 2000 = 1100.

## Question 60

What is the perpendicular distance (in cm) between the parallel sides of a trapezium whose area is 108 sq cm. and the lengths of the parallel sides are 9 cm and 36 cm?

- A 3.6cm
- B 4.8cm
- C 7 m
- D 6 m

Answer: B

## Explanation:

Area of a trapezium =  $\frac{1}{2} \times \text{Sum of lengths of opposite sides} \times \text{Perpendicular distance between them}$

$$108 = \frac{1}{2} \times (36 + 9) \times D$$

$$D = \frac{216}{45} = 4.8 \text{ cm}$$

therefore, Perpendicular distance between the sides = 4.8 cm.

**Question 61**

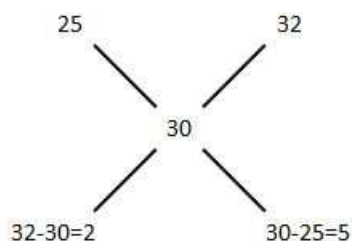
Two trains running in opposite directions cross a man standing on the platform in 25 seconds and 32 seconds respectively and they cross each other in 30 seconds. The ratio of their speed is:

- A 4 : 3
- B 2 : 5
- C 5 : 6
- D 1 : 3

**Answer: B**

**Explanation:**

Time taken by train-1 to cross the man 25 seconds  
 Time taken by train-2 to cross the man 32 seconds  
 Time taken by trains to cross each other 30 seconds



Hence, Ratio of their speeds 2 : 5.

**Question 62**

The average of 50 numbers is 36. If two numbers, namely 63 and 65 are discarded, the average of the remaining numbers is (Correct to two decimal places)

- A 34.83
- B 32.50
- C 33.75
- D 36.50

**Answer: A**

**Explanation:**

Given, Average of 50 numbers 36  
 Then, Sum of 50 numbers  $36 \times 50 = 1800$   
 63 and 65 are discarded > New sum  $1800 - 63 - 65 = 1672$   
 1672  
 Average of 48 numbers  $\frac{1672}{48} = 34.83$

**Question 63**

The length and breadth of a painting is 15 cm and 10 cm respectively. A 1 cm wide border is made around the painting. What is the area of border?

- A 60 sq cm.

- B 45 sq cm.  
C 54 sq cm.  
D 16 sq cm.

**Answer: C**

**Explanation:**

Given, Length of the painting = 15 cm

Breadth of the painting = 10 cm

Area of the painting =  $15 \times 10 = 150$  sq.cm.

Length of the painting including border =  $15 + 1 + 1 = 17$  cm

Breadth of the painting including border =  $10 + 1 + 1 = 12$  cm

Area of the painting including border =  $17 \times 12 = 204$  sq.cm

Therefore, Area of the border =  $204 - 150 = 54$  sq.cm.

**Question 64**

A student gets 60% of the maximum marks. If he gets 50% more than the passing mark, then the passing mark is what percentage of the maximum marks?

- A 75%  
B 40%  
C 37.5%  
D 50%

**Answer: B**

**Explanation:**

Let the pass marks be  $x$ .

Student gets 150% of  $x = \frac{3x}{2}$

$3x$

$\frac{3x}{2} = 60\%$

$x = 40\%$

Therefore, Pass percentage = 40%

**Question 65**

The smallest perfect square number divisible by each of 6 and 12 is:

- A 108  
B 36  
C 196  
D 144

**Answer: B**

**Explanation:**

LCM of 6 and 12 is 12.

$12 \times 1 = 12$  is not a perfect square

$12 \times 2 = 24$  is not a perfect square

$12 \times 3 = 36$  is a perfect square.

Hence, 36 is the least perfect square divisible by 6 and 12.

#### Question 66

If  $\frac{a}{b} = \frac{7}{9}$ ,  $\frac{b}{c} = \frac{3}{5}$ , then the value of a:b:c is

- A 7:3:15
- B 21:27:42
- C 7:9:15
- D 7:9:5

**Answer: C**

#### Explanation:

Given,  $a : b = 7 : 9$  and  $b : c = 3 : 5$

Multiplying  $b : c$  by 3

Then,  $b : c = 9 : 15$

Therefore,  $a : b : c = 7 : 9 : 15$ .

#### Question 67

What should come in place of question mark (?) in the following questions?

$$1.5 \times 78 \div 0.5 = ?$$

- A 243
- B 234
- C 238
- D 216

**Answer: B**

#### Explanation:

$$1.5 \times 78 \div 0.5 = \frac{1.5 \times 78}{0.5}$$

$$= \frac{15 \times 78}{5} = 78 \times 3 = 234$$

#### Question 68

Which of the following schemes of computing interest yields the maximum interest for a year?

- A Interest compounded every year at 24%. p.a.
- B Interest compounded monthly at 2% per month.
- C Interest compounded per quarter 6% per quarter.
- D Interest compounded every six months at 12% for every 6 months

**Answer: B**

#### Explanation:

$$24 \quad 124$$

For Option A, Compound Interest compound yearly  $P(1 + 100) = P(100)$

$$2$$

For Option B, Compound Interest compounded monthly  $P(1 + 12)^{12}$

$$6$$

For Option C, Compound Interest compounded quarterly  $P(1 + 4)^4$

$$12$$

For Option D, Compound Interest compounded half yearly  $P(1 + 2)^{12}$

Here, By looking at the powers, Compound Interest compounded monthly at 2% per month gives more interest than the other three.

#### Question 69

Oranges are purchased at the rate of 7 oranges for ₹3. At what price one hundred oranges should be sold so that the profit is 33% ?

A ₹58

B ₹57

C ₹60

D ₹56

Answer: B

#### Explanation:

Cost Price of 7 oranges Rs.3

$$300$$

Cost Price of 100 oranges Rs. 7

Profit 33%

$$133 \quad 300$$

Then, Selling Price of 100 oranges  $100 \times 7 = \text{Rs } 57$

#### Question 70

In how many years will a sum of money become sixteen times itself at 30% p.a. simple interest?

A 25

B 30

C 50

D 40

Answer: C

#### Explanation:

Let the principal be Rs.100

Let Amount after T years Rs.1600

Then, Interest for T years Rs.1600 - Rs.100 Rs.1500

Rate of interest 30%

$$100 \times T \times 30$$

$$100 = 1500$$

$$> T = 50$$

Hence, In 50 years, the given principal will become 16 times of itself.

#### Question 71

A dealer allows his customers a discount of 25% and still gains 25%. If an article costs ₹1600 to the dealer, then its marked price nearest to one rupee) is:

- A ₹2000
- B ₹2050
- C ₹2667
- D ₹2600

**Answer: C**

#### Explanation:

Let the Marked Price be Rs.100x

Discount 25% of Rs.100x Rs.25x

Selling Price Rs.100x - Rs.25x Rs.75x

Profit 25%

$$100$$

Then, Cost Price  $75x \times \frac{100}{75} = Rs.100x$

Given,  $60x = Rs.1600 \Rightarrow x = 26.666$

Therefore, Marked Price Rs.100x Rs.100 × 26.67 Rs.2667

#### Question 72

Find the total surface area of a cube whose volume is  $64cm^3$  ?.

- A  $64 cm^2$
- B  $84 cm^2$
- C  $16 cm^2$
- D  $96 cm^2$

**Answer: D**

#### Explanation:

Given, Volume of the cube =  $64cm^3$

Then, Side of the cube =  $4cm$

Total Surface area of the cube =  $6 \times \text{side}^2 = 6 \times 4^2 = 6 \times 16 = 96cm^2$

#### Question 73

Two bottles A and B contain diluted acid. In bottle A, the amount of water is double the amount of acid while in bottle B, the amount of acid is 3 times that of water. How much mixture(in litres) should be taken from each bottle A and B respectively in order to prepare 5 liters diluted acid containing equal amount of acid and water?

- A 1,4
- B 4,1
- C 2,3

D 3,2

Answer: D

**Explanation:**

Acid : Water in Bottle A 1 : 2  
 $\frac{1}{3}$

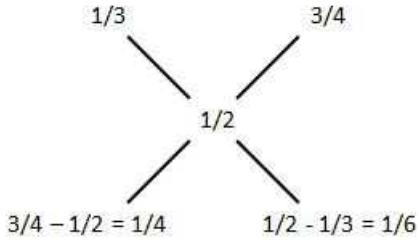
Acid in Bottle A 3

Acid : Water in Bottle B 3 : 1  
 $\frac{3}{4}$

Acid in Bottle B 4

Acid : Water in Required solution 1 : 1  
 $\frac{1}{2}$

Acid in required solution 2



herefore, Required ratio  $\frac{1}{4} : \frac{1}{6} = 3 : 2$

**Question 74**

A can do a certain job in 12 days. B is 60% more efficient than A. To do the same job B alone would take?

- A  $7\frac{1}{2}$  days
- B 8 days
- C 10 days
- D 7 days

Answer: A

**Explanation:**

Let the total work be 60 days.

Efficiency of A  $60/12 = 5$  units per day

Efficiency of B 160% of Efficiency of A  $160\% \text{ of } 5 = 8$  units per day

herefore, B can do the work in  $\frac{60}{8} = 7.5$  days

**Question 75**

The numbers of visitors every hour in a shop from 1 p.m. to 8 p.m. on Monday were recorded as 7, 10, 15, 22, 6, 4 and 13. The arithmetic mean of visitors is:

- A 13
- B 9
- C 10
- D 11

Answer: D

**Explanation:**

Number of visitors from 1 pm to 8 pm are 7, 10, 15, 22, 6, 4, 13  
 $7 + 10 + 15 + 22 + 6 + 4 + 13 = 77$

Arithmetic mean  $\frac{77}{7} = 11$

**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.

Water and minerals presented to the soil are absorbed by the roots.

- A present in the soil
- B presented at the soil
- C No substitution required
- D present for the soil

**Answer: A**

**Question 77**

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

One who knows every thing

- A Omnipotent
- B Omnipresent
- C Omniscient
- D Incredible

**Answer: C**

**Question 78**

Select the antonym of the given word.

CRITICIZE

- A Condemn
- B Commend
- C Censure
- D Respect

**Answer: B**



**Question 79**

Select the synonym of the given word.

**REMORSE**

- A Delight
- B Regret
- C Joy
- D Solace

**Answer: B**

**Question 80**

Select the meaning of the given idiom.

**Piping hot**

- A Lukewarm
- B Steaming hot
- C Extremely angry
- D Not too hot

**Answer: B**

**Question 81**

Select the most appropriate word to fill in the blank.

In his address to the villagers the minister ..... ce tain m asures being taken for improving their quality of life.

- A stepped
- B highlighted
- C learnt
- D staged

**Answer: B**

**Question 82**

Select the meaning of the given idiom.

**Call it a day**

- A a nightmare
- B name a day
- C time to quit
- D an unending dream

**Answer: C**

**Question 83**

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.

Amoeba is a microscopic single-celled organism found in pond water.

- A organisms find in
- B No substitution required
- C organisms finds in
- D organism found with

**Answer: B**

**Question 84**

Identify the segment in the sentence which contains the grammatical error from the given options  
Time and technology are two important factors that which change substances into resources.

- A two important factors
- B into resources
- C that which change
- D Time and technology

**Answer: C**

**Question 85**

Select the synonym of the given word.

Valiant

- A Scared
- B Frightened
- C Enthusiastic
- D Courageous

**Answer: D**

**Question 86**

Select the most appropriate word to fill in the blank.

The unemployment problem, as ..... by people, is not severe among the educated women.

- A demanded
- B decided
- C perceived

D solved

Answer: C

**Question 87**

Select the wrongly spelt word.

A Minimum

B Mischievous

C Miniscule

D Milenium

Answer: D

**Question 88**

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.

Normally bacteria are present in our mouth but it is not harmful to us.

A No substitution required

B so they are not

C and it is not

D but they are not

Answer: D

**Question 89**

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

People's demand are ever growing but the availability of land is limited.

A People's demand

B ever growing

C availability of

D is limited

Answer: A

**Question 90**

Select the wrongly spelt word.

A Discipline

B Neccessary

C Consensus

D Occasion

**Answer: B**

**Question 91**

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

One who can easily be deceived/cheated

- A Gullible
- B Prudent
- C Modest
- D Veteran

**Answer: A**

**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:

Advertisements (1)..... our attention to various products and describe (2)..... positively so that we become(3)..... in buying them. Advertising is all (4)..... building brands. At a very basic level, branding means(5)..... a product with a particular name or sign.

**Question 92**

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

- A hook
- B turn
- C pull
- D draw

**Answer: D**

**Question 93**

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

- A them
- B themselves
- C it
- D they

**Answer: A**

**Question 94**

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

- A biased

- B touched
- C partial
- D interested

**Answer: D**

**Question 95**

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

- A about
- B in
- C for
- D across

**Answer: A**

**Question 96**

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

- A posing
- B sticking
- C molding
- D stamping

**Answer: D**

**Instructions**

For the following questions answer them individually

**Question 97**

Select the most appropriate word to fill in the blank.

..... many people lived in the cities, others living in the countryside grew crops.

- A While
- B Whether
- C Among
- D About

**Answer: A**

**Question 98**

Select the most appropriate word to fill in the blank.

Some tribes have rich and unique cultural traditions, ..... their own language.

- A include
- B included
- C including
- D inclusive

**Answer: C**

**Question 99**

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

**FACILITATE**

- A Ease
- B Hinder
- C Aid
- D Comfort

**Answer: B**

**Question 100**

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

**It was in the oceans that life begins almost 3.5 billion years ago.**

- A It was
- B years ago
- C life begins
- D in the oceans

**Answer: C**



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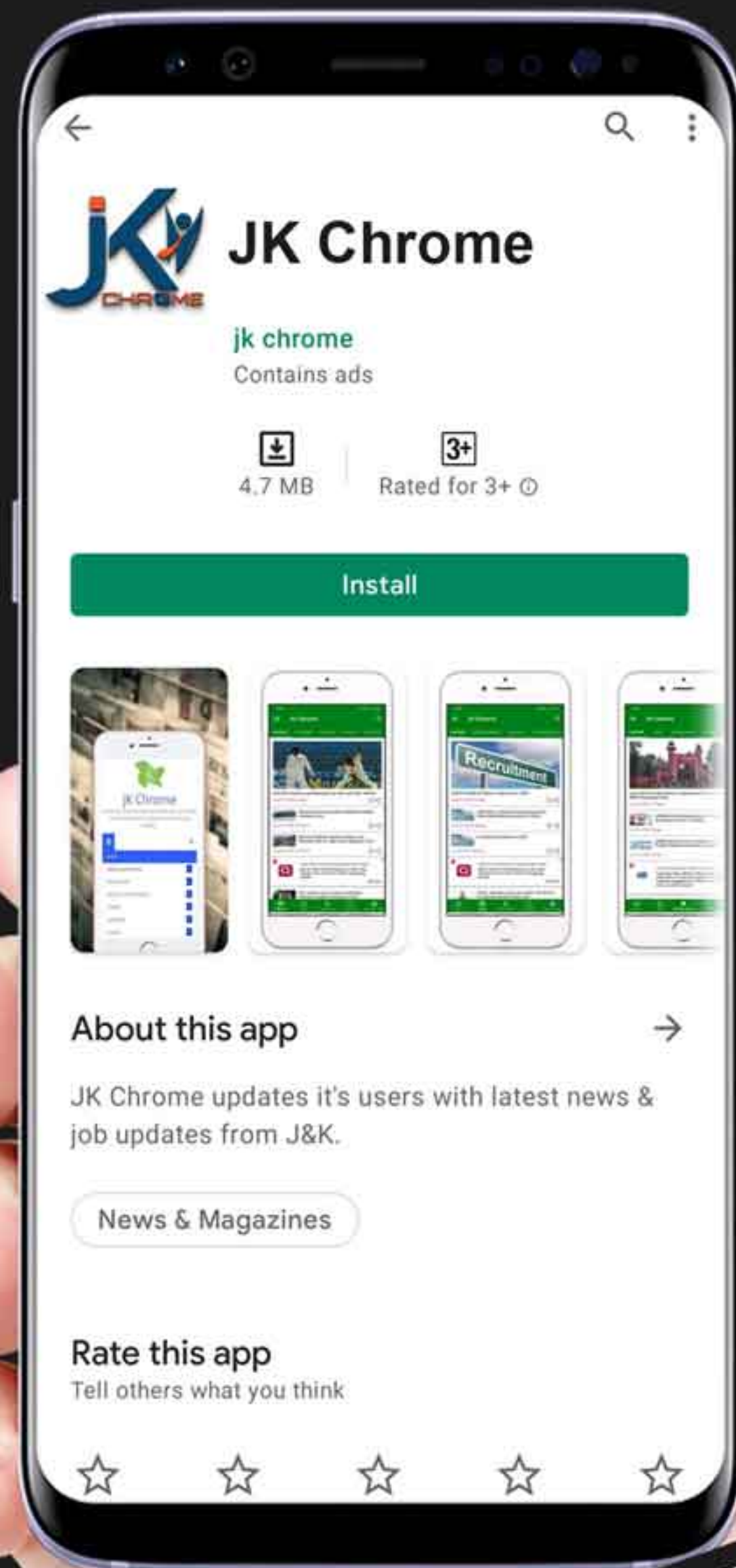
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