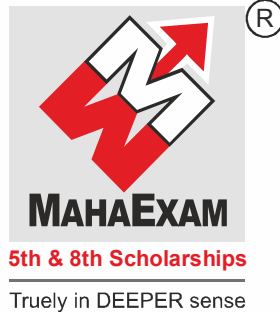


5E-1



Question Booklet
Serial No.

MAHAEXAM[®]

PRE UPPER PRIMARY SCHOLARSHIP MOCK EXAMINATION - 2020

Medium : English

Subject : First Language & Mathematics

Date : 19/01/2020 Time : 1.30 Hr. Std. : 5th Total Marks : 150

Instructions :

- (1) This question paper will be of 75 questions carrying 2 marks each.
- (2) All questions are compulsory.
- (3) Each question will have Four alternatives. ①②③④
- (4) The answer sheet provided separately along with the question paper will have 4 circles ①②③④. Darken the correct alternative circle completely either with black or blue ink ballpen.
For example, if the answer for a question is 2, the circle having 2 should be completely made black or blue like this ①●③④
- (5) Any of the answer coloured or marked as follows will get zero mark.
① ② ③ ④
- (6) Answers marked in pencil will not be considered.
- (7) Answer once given cannot be changed.
- (8) Answers marked in more than one circle will not be considered.
- (9) Time limit of the examination is fixed. So if you do not know the answer to any of the questions, go to the next one. If time remains after attempting the final question attempt the questions left out.

Subject : First Language & Mathematics

Time : 11.00 am to 12.30 pm

Solution

Q.8 What is the expanded form of I' d?

- 1) I did 2) I do 3) **I would** 4) I didn't

Ans. (3) I would

Q.9 Find the correct wh-question to get the underlined word as answer.

The woodcutter lost his old axe

- 1) **What did woodcutter lose ?** 2) Who lost the axe ?
3) How was the axe lost ? 4) Whom lost the axe?

Ans. (1) What did woodcutter lose ?

Q.10 Find out the opposite for the underlined word ?

My greatest pleasure is staying in the city.

- 1) joy 2) beauty 3) happiness 4) **sorrow**

Ans. (4) sorrow

Q.11 to Q.13 : Read the following news item and answer the questions given below:

Kolkatta : The city is gearing up for the most awaited 42nd Kolkatta International Book Fair that starts from January 31. To that effect government is working towards the makeover of the Central Park, Salt Lake. It is the new venue for the book fair. The Chief Minister, Mamta Banerjee has urged the concerned officials to complete it as early as possible.

Q.11 Which fair is described in the news ?

- 1) Trade Fair 2) **Book Fair** 3) Entertainment Fair 4) Religious Fair

Ans. (2) Book Fair

Q.12 What is the venue of the fair ?

- 1) **Central Park** 2) Western Park 3) Eastern Park 4) Salt Park

Ans. (1) Central Park

Q.13 Which of the following words cannot take the suffix 'ment' to make a new word ?

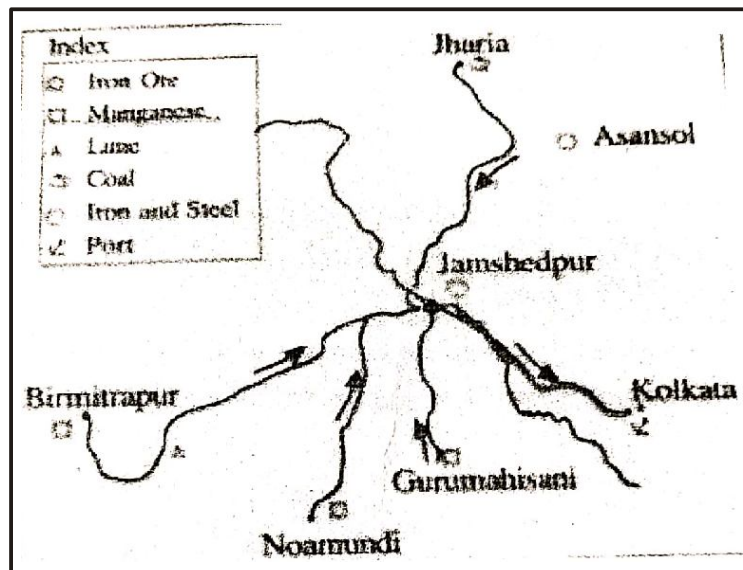
- 1) manage 2) **eager** 3) allot 4) align

Ans. (2) eager

Q.14 to Q.15 : Read the following passage and answer the questions given below :

When you go to sleep at night, you probably think that you are not doing much. Your body is in one place, your eyes are closed, and you don't talk to people. But your body is doing more than you think it is! Scientists have used special, sophisticated machines to study the way people sleep. They have found that your brain is actually very busy when you sleep. There are several stages of sleep in sleep cycle. You go through sleep cycle multiple times each night. Your brain's activity level is a little different

Q.20 to Q.22 : Read the map and answer the questions given below :



- Q.20 Where is the port according to the given map?
 1) Jharia 2) **Kolkatta** 3) Birmatrapur 4) Gurumahisani
Ans. (2) Kolkatta

- Q.21 Where do we find manganese in the map ?
 1) Jharia 2) Kolkatta 3) **Birmatrapur** 4) Gurumahisani
Ans. (3) Birmatrapur

- Q.22 Fill in the blanks with correct preposition.
 The burgler jumped _____ the compound wall.
 1) in 2) off 3) **over** 4) inside
Ans. (3) over

- Q.23 Choose the correct option that does not match with the underlined word.
 She has a frail body.
 1) weak 2) **strong** 3) feeble 4) delicate
Ans. (2) strong

Q.24 to Q.25 : Read the experiment and answer the questions given below :

Take 2 balloons. Tie one of them to one end of a straw using thread. Blow the other balloon full. Tie it to the other end of the straw. Balance the balloons exactly in the centre, with a loop of thread around the straw. See what happens. The balloon which is blown up goes down, because it is heavier.

- Q.24 Read the experiment carefully and pick out the wrong option : Material Needed _____
 1) 2 Balloons 2) Thread 3) A straw 4) **A gas lighter**
Ans. (4) A gas lighter

- Q.25 Read the above experiment and complete choosing the proper conclusion.
 Conclusion : _____
 1) **Air has weight** 2) Air is weightless
 3) Air is everywhere 4) Air has oxygen and nitrogen
Ans. (1) Air has weight

PART - II : MATHEMATICS

Q.26 How many numbers do not have digits 3 to 9 between 1 to 100 ?

- 1) 10 2) 14 3) 20 4) 9

Ans. (4) 9

Solution: Numbers do not having 3 to a digits between 1 to 100 are 1, 2, 10, 11, 12, 20, 21, 22, 100
 \therefore Total numbers = 9

Q.27 The fraction equivalent to $\frac{1}{2}$ is _____

- 1) $\frac{2}{4}$ 2) $\frac{3}{6}$ 3) $\frac{8}{16}$ 4) **All of the above**

Ans. (4) All of the above

Q.28 Make six digit smallest even number by using digits 4, 0, 3, 5.

- 1) 300045 2) **300054** 3) 300540 4) 305004

Ans. (2) 300054

Q.29 Instead of writing thirteen thousand thirty, Nisha wrote thirty thousand thirteen. By how much was her answer wrong ?

- 1) 16987 2) 16927 3) 16977 4) **16983**

Ans. (4) 16983

Solution : $30013 - 13030 = 16983$

Q.30 Prime factorisation of 13915 is _____

- 1) **$5 \times 11 \times 11 \times 23$** 2) $5 \times 11 \times 7 \times 23$ 3) $11 \times 7 \times 23 \times 3$ 4) $5 \times 11 \times 11 \times 3$

Ans. (1) $5 \times 11 \times 11 \times 23$

Solution:
$$\begin{array}{r} 5 \quad 13915 \\ 23 \quad 2783 \\ 11 \quad 121 \\ 11 \quad 11 \\ 1 \end{array}$$

$\therefore 13915 = 5 \times 11 \times 11 \times 23$

Q.31 Asha and Usha shared a pizza. Asha ate $\frac{1}{8}$ of pizza and Usha ate $\frac{1}{2}$ of the pizza. How much pizza was left?

- 1) $\frac{1}{8}$ 2) $\frac{3}{8}$ 3) $\frac{7}{8}$ 4) $\frac{5}{8}$

Ans. (2) $\frac{3}{8}$

$$\text{Solution: } 1 - \left(\frac{1}{8} + \frac{1}{2} \right) = \frac{8-1-4}{8} = \frac{3}{8}$$

Q.32 If we divide certain number by 25, the quotient is 13 and remainder is 23. Then find that number.

- 1) 325 2) 338 3) 330 4) **348**

Ans. (4) **348**

$$\text{Solution: } (x \div 25) = 13 + 23$$

$$\therefore \frac{x}{25} = 13 + 23$$

$$(25 \times 13) + 23 = 348$$

Q.33 $\frac{11}{4}$ is a number between.

- 1) 1 and 2 2) **2 and 3** 3) 3 and 4 4) 11 and 12

Ans. (2) 2 and 3

$$\text{Solution: } \frac{11}{4} = 2\frac{3}{4}$$

$$\therefore \frac{11}{4} \text{ lies between 2 and 3}$$

Q.34 7 meter + 0.4 centimeter + 96 millimeter = milimeter

- 1) 7000 2) 7134 3) 7235 4) **7100**

Ans. (4) 7100

$$\text{Solution: } 96 \text{ mm} + 0.04 \text{ mm} + 7000 \text{ mm} \\ = 7100 \text{ mm}$$

Q.35 What is the sum of three digit numbers formed by using each of the digits 1, 6, 9 only once ?

- 1) **3552** 2) 1221 3) 507 4) None of these

Ans. (1) 3552

$$\text{Solution: } 196 + 169 + 961 + 916 + 691 + 619 = 3552$$

Q.36 Sonu went to market nine days ago. She goes to the market only on Thursday. What day of the week is today ?

- 1) Thursday 2) Sunday **3) Saturday** 4) Tuesday

Ans. (3) Saturday

Q.37 Radha bought flowers for Rs.775/-. She made garlands and sold them for Rs.892/-. How much profit or loss she make ?

- 1) Rs.17/- profit 2) Rs.171/- profit 3) Rs.117/- loss **4) Rs.117/- profit**

Ans. (4) Rs.117/- profit

Solution : S. P. = Rs.775/- , SP = Rs.892/-

$$SP > CP$$

$$\therefore \text{Profit} = 892 - 772 = \text{Rs.117/- profit}$$

Q.38 3 Lakh + 25 Hundred + 13 Thousand + 9 = ?

- 1) 325139 **2) 315509** 3) 3025139 4) 31559

Ans. (2) 315509

Solution : $300000 + 2500 + 13000 + 9$
 $= 315509$

Q.39 Out of 950 students in a school, 40% are girls. Then calculate the number of boys in that school.

- 1) 380 2) 600 **3) 570** 4) 300

Ans.(3) 570

Solution : Girls = $100 - 40$

$$950 - ? \quad \frac{950 \times 40}{100} = 380 \text{ are girls}$$

$$\therefore \text{No of boys} = 950 - 380$$

$$= 570$$

Q.40 The product obtained when 13 is multiplied by 7 in Roman number is written as _____

- 1) XXCI 2) LXI **3) XCI** 4) CI

Ans. (3) XCI

Solution : $13 \times 7 = 91 = 100 - 10 + 1$
 $= \text{XCI}$

Q.41 The common end point of an angle is called _____

- 1) vertex** 2) zero 3) end point 4) None of these

Ans. (1) vertex

Q.42 $39 \square 3 \square 10 \square 4 = 19.$

Which of the following sign should be in the box respectively to make the statement true ?

- 1) $\div, +, -$ 2) $\div, -, +$ 3) $+, -, \div$ 4) $-, \div, +$

Ans. (1) $\div, +, -$

Q.43 Select the correct option.

- 1) $63\% < 0.6$ 2) $0.66 = \frac{5}{9}$ 3) $45\% > \frac{11}{25}$ 4) $\frac{1}{6} > 0.17$

Ans.(3) $45\% > \frac{11}{25}$

Solution: $63\% < 0.6$ $0.66 = \frac{5}{9}$ $45\% > \frac{11}{25}$ $\frac{1}{6} > 0.17$
 $0.63 < 0.6$ $0.66 = 0.55$ $0.45 > 0.44$ $0.166 < 0.17$
 \therefore 3rd option is correct

Q.44 $1 + 3 = 2^2$, $1 + 3 + 5 = 3^2$, $1 + 3 + 5 + 7 = 4^2$ and so on. Then the value of $1 + 3 + 5 + 7 + \dots + 21$ is _____

- 1) 10^2 2) 11^2 3) 12^2 4) 13^2

Ans. (2) 11^2

Solution : $1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19 + 21 = 121 = 11^2$

Q.45 The radius of a circle is 17 cm. What will be the measure of the longest chord of the circle?

- 1) 17 cm 2) 24 cm 3) 34 cm 4) 14 cm

Ans. (3) 34 cm

Solution : Longest chord = diameter
diameter = $2 \times$ radius
= 2×17
= 34 cm

Q.46 $\frac{2}{3}$ of 4 dozens = _____

- 1) 30 2) 32 3) 28 4) 48

Ans. (2) 32

Solution: $\frac{2}{3} \times 4$ doz
= $\frac{2}{3} \times 48$
= 32

Q.47 If we multiply certain number by 14 inspite of 9 then product is increased by 75. Then what is that number?

- 1) 23 2) 52 3) 5 4) **15**

Ans. (4) 15

Solution: Difference between multiplicand = $14 - 9 = 5$

Difference between product = 75

The number = $75 \div 5 = 15$

Q.48 Sanju travelled 5km 52m by bus, 2km 265m by car and the rest 1 km 30m he walked. Then total distance travelled by him is _____

- 1) **8.347 km** 2) 8.000 km 3) 8.925 km 4) 9.000 km

Ans. (1) **8.347 km**

Solution: 5.052

2.265

1.030

8.347

Q.49 One and quarter meter + two and half meter can be written in decimal fraction as _____

- 1) $1.75 + 2.50$ 2) $2.25 + 2.50$ 3) **$1.25 + 2.50$** 4) $1.50 + 2.50$

Ans. (3) **$1.25 + 2.50$**

Q.50 If the perimeter of a square park is 20m then the area of that square park is _____

- 1) 80m^2 2) **25m^2** 3) 20m^2 4) 5m^2

Ans. (2) **25m^2**

Solution: Perimeter of a square = $4 \times \text{side}$

$$20 = 4 \times \text{side}$$

$$\therefore \text{side} = 5 \text{ m}$$

Area of square = side side

$$= 5 \times 5$$

$$= 25 \text{ m}^2$$

Q.51 An advertisement on TV lasted for 30 sec. If the same ad is played daily for 10 days, for how many minutes will it be play ?

- 1) **5** 2) 6 3) 7 4) 8

Ans. (1) 5

Solution: $30 \text{ sec} \times 10 = 300 \text{ sec}$

$$\frac{300}{60} \text{ sec} = 5 \text{ min}$$

Q.52 A rabbits hop is about 2m long. How many hops does a rabbit take to travel 2 km ?

- 1) 500 2) **1000** 3) 10000 4) 2000

Ans. (2) 1000

$$\begin{aligned}\text{Solution: } 2\text{km} &= 2000\text{m} \div 2\text{m} \\ &= 1000 \text{ hops}\end{aligned}$$

Q.53 What number should be added to 75.68 to get 83.67 ?

- 1) 9.09 2) 8.19 3) 9.19 4) **8.09**

Ans. (4) 8.09

$$\begin{aligned}\text{Solution: } 75.68 + x &= 83.67 \\ x &= 83.67 - 75.68 \\ &= 8.09\end{aligned}$$

Q.54 Durga started the marathon race at 8.30 AM. She finished the race 4 hours 32 minutes later. What time did she finish ?

- 1) 11.58 AM 2) 12.02 PM 3) 6.02 PM 4) **1.02 PM**

Ans. (4) **1.02 PM**

$$\begin{aligned}\text{Solution: } &08 . 30 \\ &04 . 32 \\ &\underline{12 . 62} \\ + &1 \underline{\hspace{1cm}} \\ &13.02 \\ &= 1.02 \text{ PM}\end{aligned}$$

Q.55 Sangita purchased one box of mango at Rs.5050/- and she gave travelling fare Rs.120/-. Sangita sold that box of mangoes at Rs.4850/-. In this transaction how much profit or loss she has ?

- 1) Profit of Rs.220/- 2) **Loss of Rs.220/-** 3) Profit of Rs.210/- 4) Loss of Rs.200/-

Ans. (2) **Loss of Rs.220/-**

$$\begin{aligned}\text{Solution: } \text{CP} &= \text{Rs.}5050/- \\ \text{Travelling fore} &= \text{Rs.}120/- \\ \therefore \text{ Total CP} &= 5050 + 120 = \text{Rs.}5170/- \\ \text{SP} &= \text{Rs.}4850/- \\ \text{SP} &< \text{CP} \\ \therefore \text{ Loss} &= \text{CP} - \text{SP} \\ &= 5170 - 4950 \\ &= 220/-\end{aligned}$$

Q.56 The length of a rectangle is $\frac{6}{5}$ th of its breadth. If its peremeter is 132 cm, its area will be how much ?

- 1) 1080 cm² 2) 640 cm² 3) 1620 cm² 4) 2160 cm²

Ans. (1)

Solution: breadth be x

$$\therefore \text{length} = \frac{6}{5}x$$

$$\text{perimeter of a rectange} = 2(l + b)$$

$$132 = 2\left(x + \frac{6}{5}x\right)$$

$$\therefore \frac{132}{2} = \frac{11x}{5}$$

$$\frac{132}{2} \times \frac{5}{11} = x$$

$$\therefore x = 30$$

$$\therefore b = 30\text{cm}$$

$$\therefore l = 36\text{ cm}$$

$$\begin{aligned} \therefore \text{Area} &= l \times b \\ &= 30 \times 36 = 1080 \text{ cm}^2 \end{aligned}$$

Q.57 If 3259 is subtracted from 6□43 the answer we get is 3584. What is the number at □ place ?

- 1) 6 2) 8 3) 5 4) 0

Ans. (2) 8

$$\text{Solution: } 6\square43 - 3259 = 3584$$

$$\therefore 3584 + 3259 = 6843$$

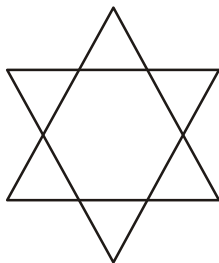
Q.58 If the numbers 1338, 1327, 1273, 1254 are arranged in descending order which will be the middle number ?

- 1) 1273 2) 1338 3) 1254 4) 1327

Ans.(4) 1327

$$\text{Solution: } 1723 \quad 1338 \quad \underline{1327} \quad 1273 \quad 1254$$

Q.59 The numbers of triangles in the following figure is _____



- 1) 12 2) 8 3) 6 4) 10

Ans.(2) 8

$$\begin{aligned} \text{Solution: No of triangles} &= 6 \text{ small} + 2 \text{ big} \\ &= 8 \text{ triangles} \end{aligned}$$

Q.60 If $5320 \div 40 = 133$. Then $1330 \times \boxed{} = 532000$. What is the number in place of $\boxed{}$.

- 1) 40 2) **400** 3) 4 4) 4000

Ans. (2) 400

Solution: $5320 \div 40 = 133$

$$1330 \times x = 532000$$

$$\begin{aligned} \therefore x &= \frac{532000}{1330} \\ &= 400 \end{aligned}$$

Q.61 The number of vertices of a cube are greater or less than the number of faces of a cube by _____

- 1) less than 4 2) greater than 4 3) less than 2 4) **greater than 2**

Ans.(4) **greater than 2**

Solution: Vertice of a cube = 8

Edges of a cube = 6

$$\therefore \text{No of vertices} = 8 - 6 = \text{greater than 2}$$

Q.62 Tina had 20 m 5cm long cloth. She cuts 4m 50cm length of cloth from this for making a curtain. The cloth left with her is _____

- 1) **15.55 m** 2) 14.95 m 3) 15.00 m 4) 14.00 m

Ans.(1) 1855 m

Solution: 20.05

$$\begin{array}{r} 20.05 \\ - 04.50 \\ \hline \end{array}$$

$$15.55$$

Q.63 How many three digit numbers can be formed which can divisible by 4 by using each digit at once from 7, 4, 8.

- 1) 4 2) 3 3) **2** 4) 6

Ans.(3) 2

Solution : Only 748, 784 are divisible by 4.

Q.64 Calculate the simple interest on Rs.5600/- at 8% for 6 months.

- 1) Rs.250/- 2) Rs.232/- 3) **Rs.224/-** 4) Rs.242/-

Ans.(3) **Rs.224/-**

$$\begin{aligned} \text{Solution: } I &= \frac{PNR}{100} \\ &= \frac{5600 \times 8 \times 6}{100 \times 12} \\ &= \text{Rs.224/-} \end{aligned}$$

Q.65 Rohit's car was parked in a car parking from 2.30 pm to 6.30 pm. If parking rate is Rs.30/- for first hour and then after Rs.5/- for every half hour then how much did he have to pay ?

- 1) Rs.50/- 2) **Rs.60/-** 3) Rs.90/- 4) Rs.55/-

Ans. (2) **Rs.60/-**

Solution : 2.30 to 6.30 = 4 hours

1st hour = Rs.30/-

Next every half an hour = 5 x 6

= 30

∴ Total = 60/-

Q.66 to Q.67 : are based on the table and pictograph showing number of trees on some streets of a town.

Name of street	No. of trees
Shanti Lane	42
Park Road	27
Rajpath	30

Name of street	No. of trees
Shanti Lane	○○○○○○○○
Rajpath	○○○○○

Q.66 How many trees does ○ represent ?

- 1) 3 2) 4 3) 5 4) **6**

Ans. (4) **6**

Q.67 Which of the following is the correct representation of the number of trees in park road ?

- 1) ○○○○ 2) ○○○○○ 3) ○○○○○○ 4) **○○○○○**

Ans. (4) **○○○○○**

Q.68 Medha has equal number of Rs.5/-, Rs.10/-, Rs.20/- and Rs.50/- notes. If she has total amount of Rs.765/-, then how many each type of notes she has ?

- 1) **9** 2) 8 3) 6 4) 7

Ans. (1) **9**

$$\begin{aligned}
 \text{Solution: No of notes} &= \frac{\text{Total amount}}{\text{sum of notes}} \\
 &= \frac{765}{5 + 10 + 20 + 50} \\
 &= \frac{765}{85} \\
 &= 9
 \end{aligned}$$

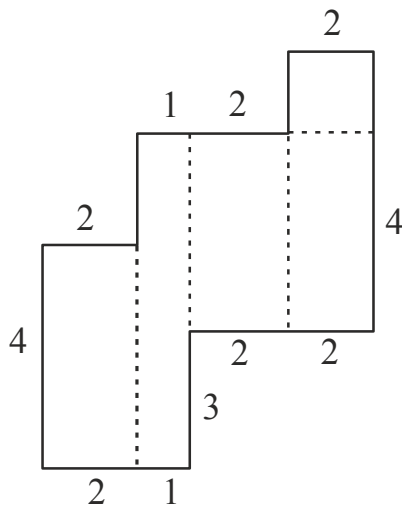
Q.69 Namita borrowed Rs.50,000/- for 3 years at the rate of 3.5% per annum. Find interest accumulated at the end of 3 years ?

- 1) Rs.5205/- 2) **Rs.5250/-** 3) Rs.5520/- 4) None of these

Ans. (2) **Rs.5250/-**

$$\begin{aligned} \text{Solution: } SI &= \frac{PRT}{100} \\ &= \frac{50000 \times 3.5 \times 3}{100} \\ &= \text{Rs.5250/-} \end{aligned}$$

Q.70 What is the area of the closed figure shown here where all dimensions are in cm.



- 1) 8 cm² 2) 14 cm² 3) 20 cm² 4) **28 cm²**

Ans. (4) **28 cm²**

$$\begin{aligned} \text{Solution: } \text{Area} &= \text{Area of diagram 1} + 2 + 3 + 4 \\ &= 8 + 6 + 6 + 8 \\ &= 28 \text{ cm}^2 \end{aligned}$$

Q.71 A notebook is made up of 120 sheets. How many gross of sheets are required to make 3 dozen notebooks ?

- 1) **30** 2) 25 3) 20 4) 28

Ans. (1) **30**

$$\begin{aligned} \text{Solution: } 1 \text{ book} &= 120 \text{ sheets} \\ \therefore 3 \text{ doz} &= 120 \times 36 = 4320 \text{ sheets} \\ 1 \text{ gross} &= 144 \text{ things} \\ ? &= 4320 \text{ sheets} \\ \therefore \frac{4320}{144} &= 30 \text{ gross} \end{aligned}$$

Q.72 Sarthak bought 4 dozen oranges at Rs.40/- per dozen and sold them with Rs.60/- per dozen. But half dozen oranges were rotten. Then how much profit he make in this transaction ?

- 1) Rs.60/- 2) Rs.210/- 3) **Rs.50/-** 4) Rs.150/-

Ans. (3) Rs.50/-

Solution : 4 doz oranges = $4 \times 40 = \text{Rs.}160/- = \text{CP}$

$\frac{1}{2}$ doz oranges were rotten

\therefore Remaining oranges to be sold = $3\frac{1}{2}$ doz

\therefore SP of $3\frac{1}{2}$ doz oranges = $3\frac{1}{2} \times 60$

$$= \frac{7}{2} \times 60 = \text{Rs.}210/-$$

= S P

SP > CP

\therefore Profit = 210 - 160 = Rs.10/-

Q.73 At what rate percent per annum will Rs.3300/- produce Rs.660/- as SI in 1 year ?

- 1) 12% 2) **20%** 3) 10% 4) 15%

Ans. (2) 20%

$$\begin{aligned} \text{Solution: } R &= \frac{100 \times \text{SI}}{\text{PT}} \\ &= \frac{100 \times \overset{20}{\cancel{660}}}{\cancel{3300} \times 1} \\ &= 20\% \end{aligned}$$

Q.74 The place value and face value are always equal at _____

- 1) **0** 2) 1 3) Any digit 4) 10

Ans. (1) 0

Q.75 There are 900 trees in a garden. 15% of them are coconut trees. Then how many coconut trees are there?

- 1) 100 2) 190 3) **135** 4) 765

Ans. (3) **135**

Solution: 100 - 15
900 - ?

$$= \frac{\cancel{900} \times 15}{\cancel{100}}$$

$$= 135$$