



# Section I

## First Language

1. Choose the wrong pair of verb and its noun form.

- |                     |                      |
|---------------------|----------------------|
| (1) nose - nasal    | (2) power - empower  |
| (3) advise - advice | (4) relief - relieve |
| (1) 3               | (2) 2                |
| (3) 1               | (4) 4                |

2. Choose the correct option for underlined phrase in the given sentence.

Srushti did not pay heed to my advice.

- |                       |                       |
|-----------------------|-----------------------|
| (1) paid attention to | (2) turned a deaf ear |
| (3) made up her mind  | (4) turned left       |

3. The following sentence is of \_\_\_\_\_ type.

"Under your care, I have watched him transforming from a timid, doubting child to a strong, happy player willing to give all for the team."

- |                       |                         |
|-----------------------|-------------------------|
| (1) compound sentence | (2) complex sentence    |
| (3) simple sentence   | (4) imperative sentence |

4. Choose the correct option.

Mandar is leaning \_\_\_\_\_ a wall.

- |           |             |
|-----------|-------------|
| (1) on    | (2) about   |
| (3) along | (4) against |

Space for Rough Work

5. Find the correct 'wh-question' for the underlined word.

The setting Sun colours the entire earth.

(1) How does the setting Sun colour? (2) What does the setting Sun colour?

(3) Where did the setting Sun colour? (4) When does the setting Sun colour?

6. Choose the correct option.

This is the final examination for you. You can \_\_\_\_\_ appear it \_\_\_\_\_ leave it.

(1) both - or

(2) either - or

(3) neither - nor

(4) not only - but also

Instruction for Q. 7 and Q. 8.

Read the following write up and choose the correct option.

Food was never meant to be just a tank-filler, Ancient civilizations worshipped the rain, the sun and the Mother Earth which gave them bounty of crop. That is why you should slow down and connect with your food. However rushed you are, you can find ways to do this. That's why food is called 'Purna Brahma'. Food is the source of energy. It also provides life, strength, enthusiasm, intellect and so on.... so respect the food that you have eaten.

7. The above write-up focuses on \_\_\_\_\_

(1) history of food

(2) we should respect food.

(3) variety of food

(4) food as a tank-filler.

8. Which elements in the nature gives us bounty of crop?

(1) fire, water, gas

(2) clouds, commets, rainbows

(3) the rain, clouds, trees

(4) the Rain, the Sun, the Mother Earth

Space for Rough Work

9. Which figure of speech is in the following sentences.

**‘To err is human, to forgive is divine.’**

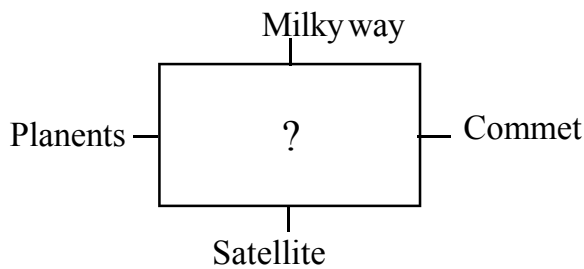
- (1) climax (2) antithesis  
(3) metaphor (4) simile

10. Fill in the blanks with correct option.

**It was holiday yesterday. We all gathered together after a long break. Nisha said, "Let's go for trekking \_\_\_\_\_" we all replied 'Yes, why not? "**

- (1) Shall we? (2) do we  
(3) will we (4) don't we?

11. Complete the word register by choosing 2 correct options



- (1) Galaxy (2) Space  
(3) Climate (4) Clouds

12. Choose the correct option

**Nisha doesn't want to participate in the running race. So she walks \_\_\_\_\_ she is lame.**

- (1) where (2) as if  
(3) as soon as (4) as when

Space for Rough Work

13. Which one of the following describes the underlined word.

Several devotees went to pilgrimage on the occasion of Aashadhi Ekadashi

- (1) Snatak (2) Bhakt  
(3) Mates (4) Shishya

Instruction for Q.14 & Q.15

**JOIN US FOR SELF AWAKENING**

<b>Your age?</b>	<b>Y</b>	<b>Special features</b>
<b>Your gender?</b>	<b>O</b>	<b>• Daytime and evening batches</b>
<b>Your fitness level?</b>	<b>G</b>	<b>• One to one sessions</b>
<b>Does not matter</b>	<b>A</b>	<b>• Customised group classes</b>
	<b>IS</b>	<b>• Workshops and events</b>
	<b>FOR</b>	

**EVERY ONE**

**Well-Come to the Yoga Classes**

**@ down town park, 1234 Gurgaon**

**Monday | Wednesday | Friday**

**From : 7.15 am to 8.15 am | 6.15 pm to 7.15 pm**



Space for Rough Work

14. Find the 2 correct option.

What is the tagline of above leaflet.

(1) Does not matter

(2) One to one sessions

(3) Yoga is for everyone

(4) Join us for self awakening

(1) 3

(2) 1

(3) 2

(4) 4

15. Which three aspects does not matter for yoga ?

(1) session, daytime, evening time

(2) Wednesday, Monday, Friday

(3) age, gender, fitness, level

(4) Money, time, matter

(1) 3

(2) 2

(3) 4

(4) 1

16. Find the two correct option which means the same for the underlined word.

'Sakshi wrote poetic odes, she sensed that the loquacious movement of her pen was akin to ripple on the surface of water.

(1) very talkative

(2) local

(3) to locate the place

(4) fond of talking

17. Choose the correct option which has correct meaning for the modal auxiliary verb.

"All births and deaths must be registered in the specified local body office.

(1) advice

(2) obligation

(3) suggestion

(4) compulsion

Space for Rough Work

**Instruction for Q.18, 19, 20**

**Read the tour Itinerary for Goa tour of 3 nights 4 days.**

**Day - I** Arrival at Goa airport and proceed for your way towards your hotel. Relax the rest of the day. You will be received with wel-come drink.

**Note - Christmas Gala Dinner at additional cost.**

**Day - II** Half day sight-seeing proceed to South-Goa. Enjoy the beaches and food there.

**Day - III** Sightseeing at North Goa. The whole day is reserved for North-Goa Enjoy shopping there.

**Day - IV** departure for home-town. check out after 9 a.m.

**Enjoy your trip**

**18. When can we enjoy our shopping during the tour?**

- (1) Day - 3 (2) Day - 2  
(3) Day - 1 (4) Day - 4

**19. What would be of additional cost at Goa tour ?**

- (1) Sightseeing (2) Welcome drink  
(3) lunch (4) Christmas Gala dinner

**20. We can enjoy beaches at \_\_\_\_\_**

- (1) Goa (2) South Goa  
(3) North Goa (4) Near Goa-airport

Space for Rough Work

21. Pick the odd man out and choose the correct option.

(1) East and West, Cleanliness is the best



(2) Erase, E-Waste



(3) Have faith in Almighty



(4) Join the to keep clean, put the rubbish into the bin.

(1) 1

(2) 2

(3) 3

(4) 4

**Instrcution for Q.22 & Q.23**

Read the following advertisement and answer the questions.

**Don't look for us any more at**

**B-25, Kailas Heights,  
Nandi Marg, Morgaon.**

**You will find us at -**

**A-10, Sunshine towers Nature Park - road, Morgaon**

**The best shop for wooden and bronze articles, jewellery,  
hand printed fabrics, bags, dresses etc.**

**@ KALPAK HANDICRAFTS**

Space for Rough Work



22. 'Kalpak Handicrafts' is now shifted at \_\_\_\_\_.

- (1) Nandi Marg (2) Srushti Nager  
(3) Kailas heights (4) nature park-road

23. Kalpak Handicrafts is the best shop for \_\_\_\_\_.

- (1) Wooden furniture (2) batik fabric  
(3) Bronze articles (4) Oxidized jewellery

**Instruction for Q.24 & Q.25**

**Notice for Meeting.**

Dear Members,

I look forward to welcome you at 5th Annual General Meeting at 'Excel Club house' of our society, on Wednesday, 17th March. The meeting will start at 11.30 am.

The topics to be discussed -

- (1) Previous year's performances  
(2) Reading of annual report/balance sheet by treasurer  
(3) Introduction of new safety measures.  
(4) Slide show on vermiculture.

So don't miss it. come in time.

**Yours faithfully,**

**Chairman**

**(Galore park)**

Space for Rough Work

**24. Choose the correct option.**

**How many topics will be discussed in Meeting?**

(1) 3

(2) 2

(3) 5

(4) 4

**25. The Balance sheet and Annual Report will be read by \_\_\_\_\_.**

(1) Chairman

(2) Treasurer

(3) Share-holder

(4) Manager

Space for Rough Work

# Section II

## Mathematics

26. Whose perfect square should be added to the sum of the greatest three digit prime number and the smallest two digit prime number so that the resultant number is perfect square of 32.

(1) 2

(2) 3

(3) 4

(4) 6

27. If a transversal intersects two parallel lines then find the ratio of the number of pairs of alternate angles to the number of pairs of corresponding angles so formed

(1) 1:2

(2) 2:3

(3) 3:2

(4) 2:5

28. Find the ratio of the total surface area of the hemisphere with diameter 28 cm to surface area of a sphere having radius 14 cm.

(1) 2:1

(2) 4:3

(3) 3:4

(4) 1:2

Space for Rough Work

29. Sunil bought a 3 year old machine from Anil at a price of Rs. 7,29,000. Its value decreases by 10 p.c.p.a. What was the price of the machine when Anil bought it ?

(1) Rs. 9,00,000

(2) Rs. 10,00,000

(3) Rs. 8,00,000

(4) Rs. 12,00,000

30. Write the degree of the product of the binomials.  $(2x^3 + 1)(x^2 - 1)$

(1) 1

(2) 3

(3) 5

(4) 6

31. Find the additive inverse of the product of a number and its multiplicative inverse.

(1) 1

(2) -1

(3) 0

(4) -2

32. The measure of a given angle is  $\frac{1}{4}$  times that of its supplementary angle. Find the measure of its complementary angle.

(1)  $36^\circ$

(2)  $45^\circ$

(3)  $54^\circ$

(4)  $60^\circ$

33. The number of notes of Rs. 2000 deposited in the bank by Amir is equal to the total number of notes of Rs. 1000 and Rs. 200 deposited in the bank. The total amount deposited in the bank was Rs. 16000. Find the total number of notes deposited in the bank.

(1) 5

(2) 15

(3) 18

(4) 21

Space for Rough Work

34. Find the compound interest for Rs. 48,000 for  $1\frac{1}{2}$  years at the rate of 8 p.c.p.a.

(1) Rs. 4475

(2) Rs. 4265

(3) Rs. 4274

(4) Rs. 5914

35. Which of the following are the factors of the polynomial  $x^2 + x - 72$ .

(1)  $(x - 8)(x + 9)$

(2)  $(x + 9)(x + 8)$

(3)  $(x - 8)(x - 9)$

(4)  $(x - 9)(x + 8)$

36. Find the difference between the greatest and the smallest rational numbers given below.

$\frac{7}{15}, \frac{11}{20}, \frac{2}{5}, \frac{12}{25}$

(1)  $\frac{3}{20}$

(2)  $\frac{3}{10}$

(3)  $\frac{10}{3}$

(4)  $\frac{20}{3}$

37. Find the measure of the angle between the hour hand and minute hand of a clock at 15 minutes past 2.

(1)  $30^\circ$

(2)  $22\frac{1}{2}^\circ$

(3)  $82\frac{1}{2}^\circ$

(4)  $52\frac{1}{2}^\circ$

Space for Rough Work

**38. The length of a rectangular garden is 452 m and breadth is 322m. There is a 11m broad road around this garden. Find the area of the road. in sq.m.**

(1) 4972

(2) 3542

(3) 16544

(4) 15544

**39. If 240 litre milk containing 8% fat is mixed with 160 litre milk containing 15% fat. What will be the percentage of fat in the mixture.**

(1) 10.5

(2) 10.6

(3) 10.7

(4) 10.8

**40. Which of the following are the factors of  $16x^4 - 81$ . [Select the correct alternatives]**

(1)  $(4x + 9)(4x - 9)$

(2)  $(4x^2 + 9)(4x^2 - 9)$

(3)  $(4x^2 + 9)(2x + 3)(2x - 3)$

(4)  $(2x + 3)^2(2x - 3)$

**41. Find the value of m if  $3^{2m-2} = 6561$**

(1) 2

(2) 3

(3) 4

(4) 5

**42. The diagonal of a square is  $25\sqrt{2}$  cm. Find the area of the square.**

(1)  $625 \text{ cm}^2$

(2)  $525 \text{ cm}^2$

(3)  $825 \text{ cm}^2$

(4)  $725 \text{ cm}^2$

Space for Rough Work

43. How much less is the area of a square whose perimeter is 44 cm. than the area of a circle whose circumference is 44 cm.

- (1)  $33 \text{ cm}^2$  (2)  $32 \text{ cm}^2$   
(3)  $30 \text{ cm}^2$  (4)  $23 \text{ cm}^2$

44. Due to 20% increase in the price of a ticket, the sale was decreased by 10%. Find by how much percentage the income was increased or decreased ?

- (1) 8% decrease (2) 8% increase  
(3) 7% decrease (4) 7% increase

45. If  $\frac{x+3}{4} = \frac{4x-2}{9}$ . Then find 'x'.

- (1) 5 (2) -3  
(3) 3 (4) 9

46. Find the sum of all four digit numbers formed by using the digits 0, and 5, repeating any number of times in the number.

- (1) 16060 (2) 21210  
(3) 56760 (4) 27720

47. A bus has wheels of diameter 1.4m. Travelling from one town to other, the wheels complete 20,000 rotations. Find the distance covered by the bus. [Select two correct alternatives]

- (1) 88 km (2) 44 km  
(3) 88000 m (4) 44000 m

Space for Rough Work

48. How much water will a cylindrical tank contain if its height is 10 m and diameter is 14m.

- (1) 154000 litres (2) 1540000 litres  
(3) 2540000 litres (4) 3540000 litres.

49. In how many years will Rs. 15000 will be doubled at the rate of  $12\frac{1}{2}$  p.c.p.a.?

- (1) 6 years (2) 7 years  
(3) 8 years (4) 12 years

50. Which of the following are the factors of the polynomial.

$$4a^2 + 9b^2 + 25c^2 - 12ab - 30bc + 20ac$$

- (1)  $(2a + 3b + 5c)(2a + 3b + 5c)$  (2)  $(2a - 3b + 5c)(2a - 3b + 5c)$   
(3)  $(2a + 3b - 5c)(2a + 3b - 5c)$  (4)  $(2a - 3b - 5c)(2a - 3b - 5c)$

51. H.C.F of two digit two numbers is 14 and L.C.M. is 490. Find the sum of those two numbers.

- (1) 140 (2) 147  
(3) 168 (4) 182

52. The diagonals of a rhombus are 24 cm and 32 cm. Find the perimeter of the rhombus.

- (1) 40 cm (2) 80 cm  
(3) 100 cm (4) 120 cm

Space for Rough Work



**53. A cuboid box has length 60 cm breadth 18 cm and height 15 cm. How many cubical boxes having each side 6 cm. will be contained in the box.**

- (1) 55 (2) 60  
(3) 65 (4) 75

**54. Vikas purchased a watch for Rs. 6540 and another one for Rs. 3460. Both the watches were sold for Rs. 10,900. What was the profit percent or loss percent in this transaction?**

- (1) 8% profit (2) 8% loss  
(3) 9% loss (4) 9% profit

**55. Multiply.  $(4a^2 + 6ab + 9b^2)(2a - 3b)$**

- (1)  $8a^3 + 27b^3$  (2)  $27a^3 - 8b^3$   
(3)  $27a^2 - 8b^2$  (4)  $8a^3 - 27b^3$

**56.  $\sqrt[3]{24389} =$  How much**

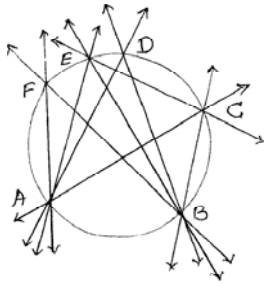
- (1) 19 (2) 29  
(3) 39 (4) 27

**57. Shamrao purchased one and half litres milk everyday from 26th January 2016 to 21st March, 2016 from Ramrao. The rate of milk was Rs. 47 per litre. Find the amount of the bill that Shamrao paid to Ramrao for the milk.**

- (1) Rs. 2632 (2) Rs. 3948  
(3) Rs. 3878 (4) Rs. 3949

Space for Rough Work

58. Observe the given figure and find the odd term.



- (1)  $m\angle ACB$                       (2)  $m\angle ADB$   
 (3)  $m\angle CEB$                       (4)  $m\angle BFA$

59. Khadi Gramodyog Mandal declared rebate of  $11\frac{1}{2}\%$  on sale of cloth. A customer purchased cloth worth Rs. 65000. Find the amount of rebate that the customer will received.

- (1) Rs. 6564                              (2) Rs. 7475  
 (3) Rs. 8485                              (4) Rs. 6465

60. Which term should be added to  $25x^2 + 49y^2$  so that the sum will be a perfect square. (Choose two correct alternatives)

- (1)  $35xy$                                   (2)  $-70xy$   
 (3)  $70xy$                                   (4)  $-35xy$

61. Simplify  $\frac{65}{77} \div \frac{104}{99} \times \frac{56}{45} - 1$

- (1) 1    (2) 0  
 (3)  $\frac{2}{5}$     (4)  $\frac{2}{7}$

Space for Rough Work

62. The perimeter of a semi-circular garden is 180 m. Find the area of the garden
- (1) 3850 sq.m. (2) 3350 sq.m.  
 (3) 2250 sq.m. (4) 1925 sq.m.
63. A pit 60 m long, 40 m wide and 5 m deep was dug and the soil was spread evenly over a road of length 1 km. and breadth 24 m. What was the thickness of the soil spread ?
- (1) 50 cm (2) 5 cm  
 (3) 0.5 m (4) 1.5 m
64. Ramrao sold 13 quintals wheat at Rs. 3250 per quintal and 23 quintals soyabean at Rs. 4350 per quintal through a commission agent 3% commission was paid. Find the amount that Ramrao will receive:
- (1) Rs. 1,38,031 (2) Rs.1,38,033  
 (3) Rs. 1,38,181 (4) Rs. 1,38,432
65. Solve:  $\frac{2017 \times 2017 - 2015 \times 2015}{4032} =$  How much ? (Select two correct alternatives)
- (1)  $\sqrt{2017 \times 2015}$  (2) 2  
 (3)  $2017 \times 2015$  (4)  $\sqrt{4}$
66.  $x \propto y$  ( $x$  varies directly with  $y$ ) If  $x = 35$ , and  $y = 14$ , then find which of the following is the equation of variation ?
- (1)  $2x = 5y$  (2)  $2y = 5x$   
 (3)  $2x + 5y = 0$  (4)  $2y - 5x = 0$

Space for Rough Work

**67. The sides forming the right angle of a right angled triangle are 5 cm. and 12 cm. Find the radius of the circumcircle of the triangle.**

- (1) 6.5 cm (2) 7.5 cm  
(3) 8.5 cm (4) 5.5 cm

**68. Total surface area of a cube is  $384\text{cm}^2$ . Find the volume of that cube.**

- (1) 512 cu.cm (2) 343 cu.cm  
(3) 0.512 cu.m (4) 0.343 cu.m.

**69.  $(4x^2 - 9x + 7) + (x^2 + 5x - 1) - (5x^2 - 4x + 5) =$  How much ? (Select two correct alternatives.)**

- (1) 1 (2)  $x^2 + 3x - 2$   
(3)  $2x^2 - 2x + 5$  (4)  $2^0$

**70. In a class the average age of 41 students was 13.5 years. If the age of the class-teacher is added to the total ages of the students, then the average age increases by 6 months. Find the age of the class teacher.**

- (1) 43 years 6 months (2) 34 years 6 months  
(3) 35 years 6 months (4) 36 years 6 months

Space for Rough Work

71. Find the perpendicular height of an equilateral triangle whose side is 12 cm.

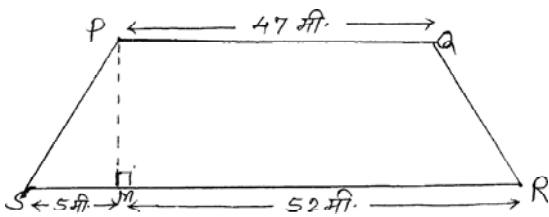
(1)  $4\sqrt{3}$  cm.

(2)  $\sqrt{48}$  cm.

(3)  $6\sqrt{3}$  cm.

(4)  $\sqrt{108}$  cm.

72. In the above trapezium PQRS side PQ || side SR. The measurements of the sides are given in the figure. observe the figure and find the area of the trapezium.



$l(PQ) = 47 \text{ m.}$

$l(SP) = 13 \text{ m.}$

$l(MR) = 52 \text{ m.}$

$l(SM) = 5 \text{ m.}$

(1)  $624 \text{ m}^2$

(2)  $524 \text{ m}^2$

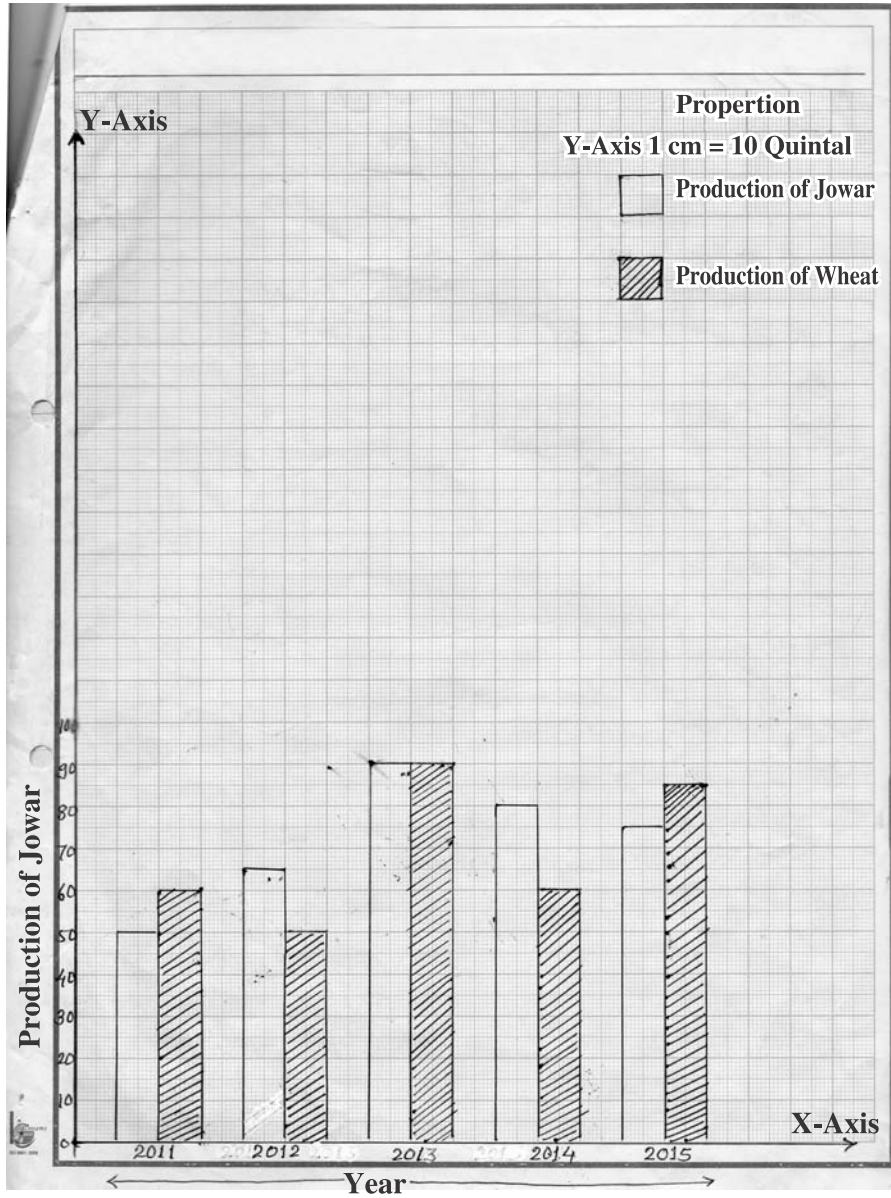
(3)  $6.24 \text{ m}^2$

(4)  $5.24 \text{ m}^2$

Space for Rough Work

**Q.73 to 75 Directions**

The quantity of Jowar and Wheat produced by Ramrao from the year 2011 to 2015 is shown below in the joint bar graph. Observe it and select the correct alternative to answer the questions given below.



Space for Rough Work

**73. What is the average production of Jowar ?**

- (1) 72 quintal                      (2) 75 quintal  
(3) 77 quintal                      (4) 79 quintal

**74. In which year was the yield of Jowar and wheat was equal and the highest ?**

- (1) 2012                                      (2) 2013  
(3) 2014                                      (4) 2015

**75. In the year 2012, how much less was the yield of wheat than jowar in quintals ?**

- (1) 10    (2) 15  
(3) 20    (4) 25

Space for Rough Work

Space for Rough Work