

## Daily Test-IDBI 2018

Directions (1-5): Each question below has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank that best fits the meaning of the sentence as a whole.

Q1. Centre should ..... ministries whose functions ..... with the state ministries to save money, deliver efficiency and avoid duplication of work.

- finish, differ
- establish, contradict
- constitute, matches
- abolish, overlap
- block, vary

**Solution:**

**Abolish and overlap best fit the meaning of the sentence.**

Q2. Many people ..... genetically modified food but the reality is that all the food that we eat has been genetically modified naturally by thousands of years of .....

- praise, manipulation
- grow, mismanagement
- criticize, farming
- avoid, experience
- condemn, abuse

**Solution:**

**Criticize and farming best fit the meaning of the sentence.**

Q3. Given that only seven percent of the country's labour force is in the organized sector, training options ..... for the unorganized sectors should also be .....

- available, enhanced
- absent, improved
- lacking, sustained
- existing, restricted
- offered, limited

**Solution:**

**Available and enhanced best fit the meaning of the sentence.**

Q4. Government initiatives and participation of many industrial houses in ..... loans to the villagers have led to the ..... of the farmers.

- providing, plight
- disbursing, betterment
- denying, revitalization
- subsidizing, suffering
- taking, advancement

**Solution:**

**Disbursing and betterment best fit the meaning of the sentence**

**Q5. Indians will ..... one-fourth of total work force in the next five years but India needs to introspect whether its education system is ..... for these demographic dividends.**

- become, adequate
- consist, incompetent
- constitute, unequipped
- represent, sound
- comprise, prepared

**Solution:**

**Become and adequate best fit the meaning of the sentence.**

**Directions (6-10): Study the following information carefully to answer the given questions. In a certain code language:-**

“will encourage them to” is written as “S@X M@U N#F T@U”  
“help advance the common” is written as “W@I X#B T#U M@D”  
“roll out the corporate” is written as “M@S M#D G#P T#U”

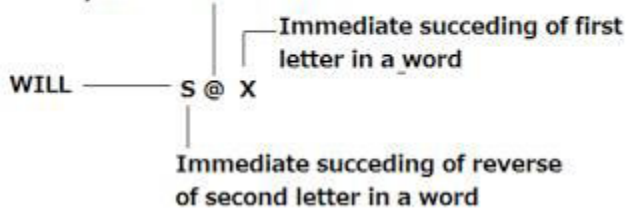
Q6. What is the code for “terrorism”?

- W#U
- W#V
- W@U
- X#U
- None of these

**Solution:**

**(6-10)**

If total number of letter in a word is even number then use @ symbol otherwise use #



**Q7. What is the code for “promoting”?**

- J#Q
- J#B
- J@Q
- T#Q
- None of these

**Q8. What is the code of ‘senior’?**

- W@V
- W@T
- W#T
- X@T
- None of these

**Q9. Which will be the code for ‘relation’?**

- W@T
- W@S
- W#S
- Y@S
- None of these

**Q10. What is the code of ‘agenda’?**

- U@C
- V@B
- U@B
- U#B

- None of these

**Q11.** Two trains A and B moves towards each other at the same time from different stations P and Q respectively. After meeting each other, the train A takes 2 hour 24 minutes to reach Q and the train B takes 4 hours 16 min to reach the station P. If the speed of the train B is 60 km/h then find the speed of the train A?

- 80 km/h

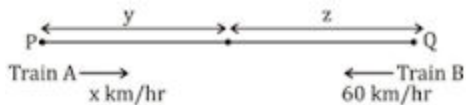
- 60 km/h

- 70 km/h

- 90 km/h

- 85 km/h

**Solution:**



$y$  = Distance travelled by train B in 4 h 16 min.

$z$  = Distance travelled by A in 2 h 24 min.

$\therefore PQ = y + z$

$$\therefore x \times \left(2 + \frac{24}{60}\right) + 60 \times \left(4 + \frac{16}{60}\right) = 60 \left(t + 4 + \frac{16}{60}\right)$$

$t$  = time after which both train meet

$$\Rightarrow \frac{12x}{5} = 60t$$

$$\Rightarrow t = \frac{x}{25} \quad \dots (i)$$

$$\text{and, } x \left(\frac{12}{5}\right) + 60 \times \left(\frac{64}{15}\right) = x \left(t + \frac{12}{5}\right)$$

$$\Rightarrow xt = 256 \quad \dots (ii)$$

From (i) and (ii), we get

$$x = 80 \text{ kmph}$$

**Q12.** Three pipes A, B and C need a certain time to fill a certain cistern. Working together, they require 30 minutes to fill 50% of the cistern. C needs 1 hours less than A to fill the cistern. The cistern gets filled if A and B start working together and A stops after 1 hour and B works for further 3 hours. How much filling C do per hour?

- 1/6

- 1/3

- 1/2

- 2/3

- 1/4

**Solution:**

Let C takes x hour to fill the tank

∴ time taken by A = (x + 1) hours

Let time taken by B = y hours

$$\therefore \left( \frac{1}{(x+1)} + \frac{1}{y} + \frac{1}{x} \right) \times \frac{1}{2} = \frac{1}{2}$$

$$\Rightarrow \frac{1}{x+1} + \frac{1}{y} + \frac{1}{x} = 1 \quad \dots (i)$$

$$\text{and } \frac{1}{x+1} + \frac{4}{y} = 1 \quad \dots (ii)$$

from (i) and (ii)

$$y = 3x$$

substituting this value of y in (ii)

$$\therefore \frac{1}{x+1} + \frac{4}{3x} = 1$$

$$\Rightarrow 7x + 4 = 3x^2 + 3x$$

$$\Rightarrow 3x^2 - 4x - 4 = 0$$

$$\Rightarrow (x-2)(3x+2) = 0$$

$$\Rightarrow x = 2$$

∴ Per hour work of C =  $\frac{1}{2}$

**Q13. A and B undertook a work for Rs 350. A got Rs 150 more than that of B, when they worked together. B takes 9 days more than A, when they work individually. In how many days A and B working together can do the whole work?**

5

$4\frac{2}{7}$

$4\frac{5}{7}$

$5\frac{4}{7}$

None of these

**Solution:**

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Money gained by B

$$= \frac{350 - 150}{2}$$

= Rs.100

By A = Rs. 250

∴ Efficiency of A : Efficiency of B = 5 : 2

Let A takes x days individually

Then time taken by B individually =  $\frac{5x}{2}$

$$\therefore \frac{2}{5x} \times (x + 9) = 1$$

⇒ x = 6 days

and time taken by B = 6 + 9 = 15 days

$$\therefore \text{Required day} = \frac{6 \times 15}{6 + 15} = 4\frac{2}{7}$$

**Q14.** There are 12 filling pipes each capable of filling a cistern alone in 32 minutes and 8 emptying pipes each capable of emptying A cistern alone in 40 minutes. All pipes are opened together and as a result, tank was filled with 28 litres of water per minute. Find the capacity of the tank.

160 litres

120 litres

100 litres

80 litres

180 litres

**Solution:**

One minutes work of both pipes

(12 filling pipes + 8 emptying pipes)

$$= \frac{12}{32} - \frac{8}{40}$$

$$= \frac{7}{40}$$

$$\therefore \text{Capacity of tank} = \frac{40}{7} \times 28$$

$$= 160 \text{ li}$$

**Q15.** Out of 10,000 seats in a stadium 100 were not sold. Of the tickets sold, 20% were sold at half price and the remaining tickets were sold at the full price of Rs 20. The total revenue from the ticket sales, in Rs was:

1,58,400

- 1,78,200
- 1,80,000
- 1,98,000
- 1,87,200

**Solution:**

Total revenue

$$= (10,000 - 100) \times \frac{20}{100} \times 10 + 9,900 \times \frac{80}{100} \times 20$$

$$= \text{Rs. } 1,78,200$$

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