



# SHAKTHII ACADEMY

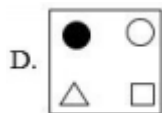
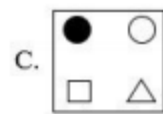
Increasing Confidence ; Reaching Goals

## RRB NTPC 29th March 2016 Shift 3

Q 1 Look carefully at the sequence of symbols to find the pattern.



2. Which of the following will replace the (?) in the sequence?



3. In a certain code, 592 means 'grapes are sweet', 374 means 'I like oranges' and 267 means 'oranges are sour'. Which digit represents sour?

A. 9

B. 5

**C. 6**

D. Cannot be determined

4. Which of the following statements is true with respect to Glucometer?

A. It is a medical device.

B. It is a non-medical device.

C. It is used to measure oxygen level in the air.

D. It is used to measure nitrogen level in the air.



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Q.5 Car B is twice as fast as car A. If car A covers 90 km in 2 hours, what is the speed of car B?

- A. 90 kmph
- B. 80 kmph
- C. 100 kmph
- D. 70 kmph

Q.5 given in hindi

Q 6 The ratio of speeds of X and Y is 5:7. Y covers a distance of 420 km in 3 hours. What is the speed of X?

- A. 80 kmph
- B. 90 kmph
- C. 100 kmph
- D. 120 kmph

Q 7 Cricket World Cup 2015 was hosted by

- A. England
- B. New Zealand
- C. Australia
- D. New Zealand & Australia

Q 8 The World Heritage Site Bhimbetka in MP is famous for

- A. Forests
- B. Mountain ranges
- C. Rock shelters
- D. Waterfalls

Q 9 The standard deviation of the set {10, 11, 9, 11, 9} is

- A.  $1/\sqrt{5}$
- B.  $2/\sqrt{5}$
- C.  $3/\sqrt{5}$
- D. 0

Q 10 An assertion (A) and a reason (R) are given below.

Assertion (A): Plants convert light energy into chemical energy during the process of photosynthesis.

Reason (R): Sugar produced from photosynthesis by plants is used by human beings as a source of energy.

Choose the correct option.

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true, but R is not the correct explanation of A



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- C. A is true, but R is false
- D. A is false, but R is true

Q.11 How many times does the number 5 occur in the range of numbers from 1 to 100?

- A. 21
- B. 22
- C. 20
- D. 19

Q 12 A body in motion essentially acquires

- A. Kinetic energy
- B. Potential energy
- C. Mechanical energy
- D. Heat energy

Q.13 In a certain code, if LEMON is coded as FWOMA then SHIRT is coded as

- A. ITSJH
- B. GRQHF
- C. HSRIG
- D. TRIHS

Q 14 given in hindi

Q.15 Select the alternative that shows a similar relationship as the given pair -

Yarn : Fabric

- A. Root: Tree
- B. Heart: Body
- C. Metal: Sword
- D. Ink: Pen

Q.16 In which year, was the Noble Peace Prize jointly given to Kailash Satyarthi and Malala Yousafzai?

- A. 2012
- B. 2013
- C. 2014
- D. 2015

Q.17 What is the name of the spacecraft to be launched in 2019-20 by ISRO to study the sun?

- A. Surya



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- B. Aditya
- C. Ravi
- D. Bhaskar

Q.18 Who was the first woman president of Indian National Congress in pre-independent India?

- A. Vijayalakshmi Pandit
- B. Sarojini Naidu
- C. Annie Besant
- D. Madam Cama

Q.19 Right To Information (RTI) Act came into effect in the year

- A. 2004
- B. 2005
- C. 2006
- D. 2007

Q.20 The sum of three consecutive even numbers is 42. Find the middle number.

- A. 12
- B. 18
- C. 16
- D. 14

Q 21 Solve:  $(x + 2y)(2x - y)$

- A.  $2x^2 + 5xy + 2y^2$
- B.  $2x^2 + 3xy - 2y^2$
- C.  $x^2 + 4xy + y^2$
- D.  $x^2 + 4xy - y^2$

Q 22 – 24 Given in hindi

Q.25 who among the following is not a Bharat Ratna recipient?

- A. Bhimsen Joshi
- B. A. R. Rahman
- C. Lata Mangeshkar
- D. M. S. Subbulakshmi

Q.26 The UNESCO World Heritage Site, Victoria Memorial Hall is located in which Indian city?

- A. Mumbai
- B. Chennai
- C. Kolkata



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D. Delhi

Q 27 The value of  $(\sec^2 6 + 2 \tan 6 \cot 0 - \tan^2 0)$  is

- A. 0
- B. 1
- C. 2
- D. 3

Q 28 – 29 Given in hindi

Q 30 If  $4x + 5y = 14$  and  $x - 5y = 16$  then the value of  $x$  and  $y$  are

- A. 10 and  $-6/5$
- B. 6 and 2
- C. 10 and  $6/5$
- D. 6 and -2

Q 31 You have 20 big and 16 small diaries and want to make gift packs containing both in each pack. What is the maximum number of gift packs you can make without any left over?

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

Q 32 – 33 Given in hindi

Q.34 If P means  $\div$  Q means  $+$  R means  $-$  and S means  $\times$ , then the value of  $10 R 192 P 48 S 48 P 96 Q 1$  is

- A. 10
- B. 9
- C. 8
- D. 7

Q 35 If  $L:M = 3:5$  and  $M:N = 2:3$ , then  $N:L = ?$

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

Q 36 Given in hindi



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Q 37 When the human body temperature falls by about 2-3.5°F below the normal body temperature, the condition is known as

- A. Fever
- B. Hypothermia
- C. Hyperthermia
- D. Hyperpyrexia

Q 38 given in hindi

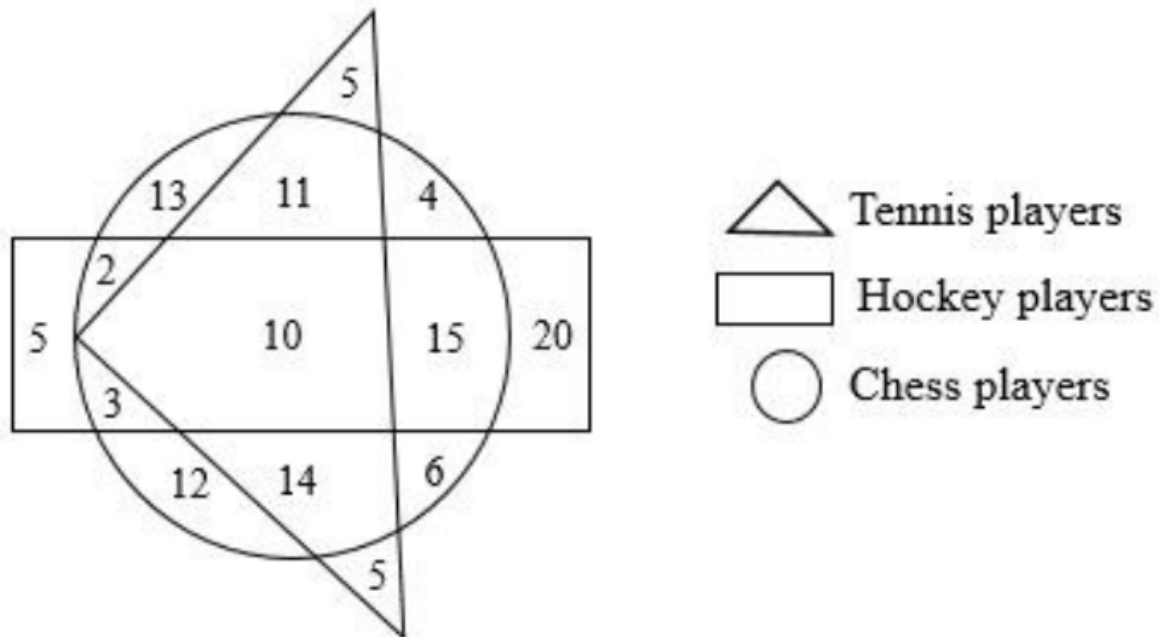
Q 39 Full form of BIOS is

- A. Binary Interchange Operation System
- B. Basic Input Output System
- C. Beginner's Input Operation Symbol
- D. Basic Interface Oriented Service

Q 40 given in hindi

Comprehension:

Q 41 – 43 Study the following diagram and answer questions based on it.



Q 41 The number of non-chess players is how much more than the players who play both chess and tennis.



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- A. 5
- B. 10
- C. It is the same
- D. Cannot be determined

Q 42 The number of tennis players who are not hockey players is

- A. 10
- B. 50
- C. 55
- D. 35

Q 43 The ratio of hockey players to chess players '

- A. 9/18
- B. 10/18
- C. 11/18
- D. 15/18

Q 44 Find the missing (?) in the series

BCA, FGE, ?, NOM, RSQ, VWU

- A. IJH
- B. KLJ
- C. KJI
- D. JKI

Q 45 If the mathematical operator + means  $\div$ , - means +,  $\div$  means  $\times$  and  $\times$  means - then the value of  $17 - 7 \div 27 + 3 \times 79$  is

- A. -1
- B. 0
- C. 1
- D. 2

Q 46 The value of  $\tan(-405^\circ)$  is

- A. 1
- B. -1
- C.  $\infty$
- D. 0



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Q 47, 48 hindi

Q.49 In a certain language, if PLATE is written as CYNGR, then SHOCK will be written as

- A. HSLXP
- B. FUBPX
- C. HUYPX
- D. FSBXP

Q.50 Which of the following does computing in a personal computer?

- A. CPU
- B. Motherboard
- C. RAM
- D. BIOS

Q 51 What is the highest common factor of 360 and 450?

- A. 90
- B. 45
- C. 10
- D. 9

Q 52 hindi

Q 53 Statements followed by some conclusions are given below.

Statements:

1. Tea is green. Coffee is brown and milk is white.
2. More than half of the town likes tea.
3. People who like white don't like green and some people who like brown don't like white.

Conclusions:

- I. Green is more popular in the town,
- II. There is at least one coffee drinker who does not like tea.

Find which of the given conclusions logically follows from the given statements.

- A. Only conclusion I follows.
- B. Only conclusion II follows.
- C. Both I and II follow
- D. Neither I nor II follows.

Q.54 The Rupee sign '₹' was adopted by Government of India in the year

- A. 2009
- B. 2010
- C. 2011





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D. 2012

Q 55 The second largest river in terms of length in India is

- A. Narmada
- B. Yamuna
- C. Brahmaputra
- D. Godavari

Q 56 On a certain principal, simple interest amounts to Rs. 2.000 in two years at the rate of 10% p.a. What will be the difference in the amount of interest if the same is compounded on annual basis?

- A. 200
- B. 220
- C. 100
- D. 120

Q 57 A prime number

- A. Is not a positive integer.
- B. Has no divisor at all.
- C. Has only 1 and itself as divisors.
- D. Has more than two divisors.

Q.58 Russian Sukhoi 24 (SU-24) flight was shot down in November 2015 by

- A. Syria
- B. North Korea
- C. Afghanistan
- D. Turkey

59. Ram lent Rs. 6.000/- to Shiva for 3 years and Rs. 8.000/- to Krishna for 5 years at the same rate of simple interest per annum. He got a total interest of Rs. 5.220 from both. Find the rate of interest per annum.

- A. 6%
- B. 7%
- C. 8%
- D. 9%

Q.60 The first Indian to win an Olympic medal in badminton was

- A. Syed Modi
- B. Prakash Padukone



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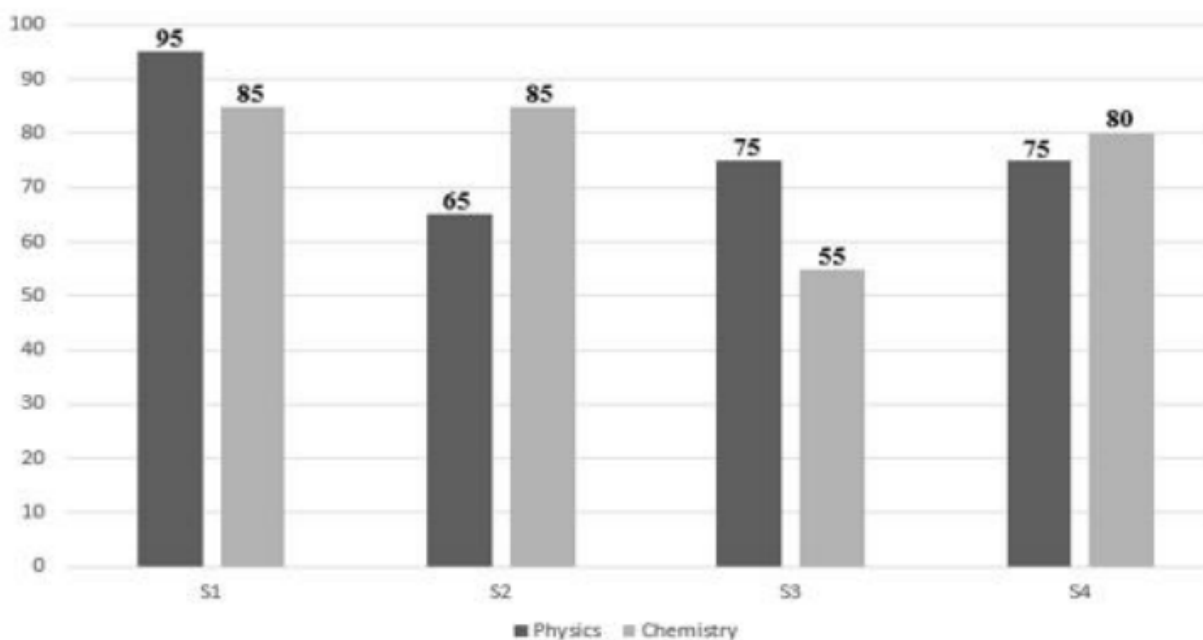
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C. Pullela Gopichand

D. Saina Nehwal

Q 61 – 63 Comprehension:

The bar chart represents marks of four students S1, S2, S3 and S4 in Physics and Chemistry. Consider the bar answer questions based on it.



Q 61 What is the ratio of total marks of all students in Chemistry to that of Physics in percentage?

- A. 94%
- B. 96%
- C. 98%
- D. 102%

Q 62 What is the ratio of total marks in both subjects obtained by S2 to that of S4?

- A. 25/31
- B. 30/31
- C. 36/31
- D. 31/25

Q.63 What is the ratio of marks obtained in Physics of S3 to that of S1?

- A. 11/19
- B. 15/19
- C. 13/19



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D. 17/19

Q.64

$P + Q = 2(P - Q)$  If  $Q=10$ , what is the value of  $P$ ?

A. 10

B. 40

C. 20

D. 30

Q.66 what is the area of the square, if the length of its diagonal is  $13\sqrt{2}$  units?

A. 104 sq. units

B. 169 sq. units

C. 338 sq. units

D. 676 sq. units

Q-67 The pressure inside the cabin of the aircraft flying at an altitude is

A. The same as that outside.

B. Less than that outside.

C. More than that outside.

D. Normal atmospheric pressure at sea level.

Q 69 'Akash' developed by DRDO is

A. A surface-to-air missile system.

B. A surface-to-surface missile system.

C. A air-to-surface missile system.

D. Not a missile system.

Q 70 In a certain town, ST Bazaar is the only option for people to buy groceries. A healthy marketplace is characterized by

competition and not monopoly. Which conclusion follows the given statements?

A. ST Bazaar is a family owned business.

B. ST Bazaar is a super market.

C. ST Bazaar has a monopoly in the town.

D. ST Bazaar is liked by most people of the town.

Q<sup>71</sup> Which of the following fractions is the least of all?

A.  $\frac{6}{5}$

B.  $\frac{4}{3}$

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

D.  $\frac{5}{4}$



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Q-74 'Cow' has been declared as the personality of the year 2015 by

- A. Microsoft
- B. Google
- C. Yahoo India
- D. Facebook

Q.75 ZIKA virus which causes neurological birth disorders is transmitted by

- A. Rat bites
- B. Mosquito bites
- C. Snake bites
- D. Monkey bites

Q.76 A person has sold an article for Rs. 1,300 and made a profit of 30%, find the cost price of the article.

- A. 1,000
- B. 1,200
- C. 1,250
- D. 1,100

Q 78 If PERK = 5638 and BLACKEN = 4917862 then 7317896

- A. PRICKLE
- B. CRANKLE
- C. CRIPPLE
- D. CRACKLE

Q 79 The GST Bill introduced in parliament in 2015 is

- A. A financial bill.
- B. Not a money bill.
- C. A constitutional amendment bill.
- D. An ordinary bill.

Q 81 World Environment Day is celebrated on

- A. 5<sup>th</sup> April
- B. 15<sup>th</sup> May
- C. 5<sup>th</sup> June
- D. 15<sup>th</sup> July

Q 86 Women's Doubles World Champions for 2015 announced by International Tennis Federation are



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- A. Martina Hingis and Sania Mirza
- B. M. Sands and L Safarova
- C. Serena Williams and Venus Williams
- D. Sara Errani and Roberta Vinci

Q-<sup>88</sup> Find the range of the data: 11,13, 9, 17, 13, 19, 10, 11

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

Q<sup>90</sup> World No-Tobacco Day falls on

- A. 1<sup>st</sup> May
- B. 31<sup>st</sup> May
- C. 1<sup>st</sup> June
- D. 30<sup>th</sup> June

Q 91 Expand:  $(s + 2)^3$

- A.  $s^3 + 3s^2 + 12s + 8$
- B.  $s^3 + 3s^2 + 6s + 8$
- C.  $s^3 + 6s^2 + 12s + 8$
- D.  $s^3 + 6s^2 + 6s + 8$

Q-<sup>92</sup> Biotechnology means

- A. Technical study of bacteria.
- B. Technical study of chemicals in the body.
- C. Infusion of technology in human anatomy.
- D. Use of living organisms in industrial processes.

Q 93 Karan's number in the queue is twelfth from the counter. There are five people between Karan and Sunil. What is Sunil's number in the queue?

- A. 19
- B. 18
- C. 20
- D. 17



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Q 94 Statements followed by some conclusions are given below.

Statements:

1. A bag has 2 white, 3 black, 4 red and 6 green balls.
2. 2 balls are selected at random from the bag.

Conclusions:

- I. The probability that a black ball is selected is  $1/5$ .
- II. The probability that a red ball is selected is  $6/15$

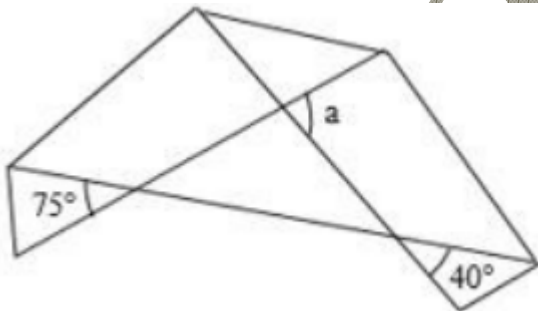
Find which of the conclusions logically follow s from the given statements.

- A. Only conclusion I follows.
- B. Only conclusion II follows.
- C. Both I and II follow.
- D. Neither I nor II follows.

Q 95 Vikram and Yivck can finish a work in 50 days. They worked together for 20 days and then left. How much work has been done by them?

- A.  $3/5$
- B.  $1/3$
- C.  $1/2$
- D.  $2/5$

Q 96



What is the value of a?

- A.  $65^\circ$
- B.  $75^\circ$
- C.  $105^\circ$
- D.  $115^\circ$



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- Q\_97 Debugging is the process of
- A. Rolling out a software program.
  - B. Modifying a software program.
  - C. Checking errors in a software program.
  - D. Changing the design structure of a program.

- Q\_98 The 103<sup>rd</sup> Indian Annual Science Congress was held in
- A. Bengaluru
  - B. Mysore
  - C. New Delhi
  - D. Lucknow

- Q 100 Who was the chief guest on the occasion of 69<sup>th</sup> Independence Day celebrations in India?
- A. President of France
  - B. President of China
  - C. Prime Minister of Bhutan
  - D. President of U.S.A.

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