RRB NTPC 16th April 2016 Shift 2 Question Paper & Key - www.dailycareers-in

1. Options shown in green color with a tick icon are correct

- O.1 The average age of a team of 29 members is 23 years. If the age of the team leader be included, then the average increases by 2 months. What is the age of the team leader?
 - A. 25
 - B. 28
 - C. 32
 - D. 27

- Ans X_{1. C}
 - **X**_{2. D}
 - **√**3. B
- Q.2 Find total prime factor in the product of $\{ (16)^7 \times (27)^6 \times 5^9 \}$
 - A. 28
 - B. 43
 - C. 55
 - D. 56

Ans

- O.3 By using formula of mean proportional and third proportional, find the ratio of third proportional to 8 and 20 and mean proportional between 4 and 9.
 - A. 21:6
 - B. 25:3
 - C. 24:5
 - D. 5:2

Q.4	f $(4y+55)^{\circ}$ and $(3y+69)^{\circ}$ are supplementary angles then find value of y.	
	A. 10 B. 6	>
	C. 12 D. 8	
Ans	X _{1. C}	
	2. D 3. A	
	×4. B	
Q.5	The mean of 8 observations is 10. Three more observations are included and the new mean becomes 12. The mean of three new observations is	f the
	A. 16 B. 18	
	C. 17.33 D. 15	
Ans	X _{1. A}	
	2. C X _{3. D}	
	X _{4. B}	
Q.6	During what period was P.A.Sangma, who died recently, the Lok Sabha Speaker?	
	A. 1994-1996 B. 1996-1998 C. 1998-2002	
	D. 2002-2004	
Ans	1. B 2. A	
	×3. C	
	×4. D	
Q.7	Who was the first king of the Vijayanagara empire? A. Bukkaraya I	
	B. Krishnadevaraya C. Harihara I	
	D. Ramadevaraya	
Ans	× _{1.D}	



- O.8 MRP on the pack of any product refers to
 - A. Marginal Retail Price
 - B. Maximum Retail Price
 - C. Monopoly Retail Product
 - D. Maximum Recycled Product

- Q.9 The branch of physics concerned with study of heat is called
 - A. Optics
 - B. Acoustics
 - C. Thermodynamics
 - D. Relativity

Ans X 1. B X 2. D X 3. C X 4. A

Q.10 An Assertion (A) and a Reason (R) are given below.

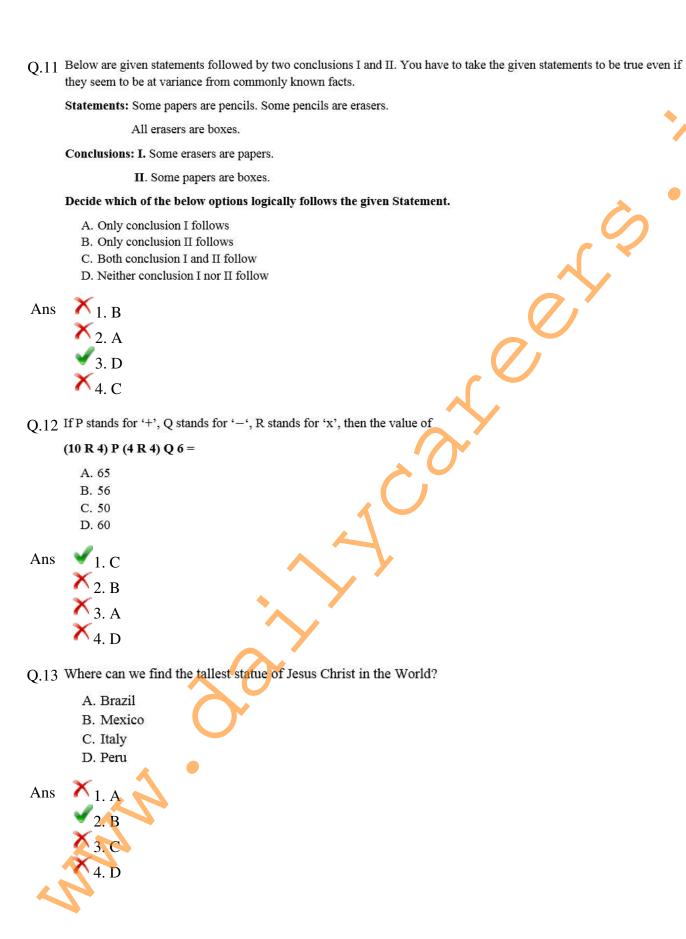
Assertion (A): Milk production in India is low as compared to other countries of the world.

Reason (R): The animal rearers in India are poor.

Choose the correct option.

- A. A is true but R is false.
- B. A is false but R is true.
- C. Both A and R are false.
- D. Both A and R are true.

Ans 1. D 2. B 3. C 4. A

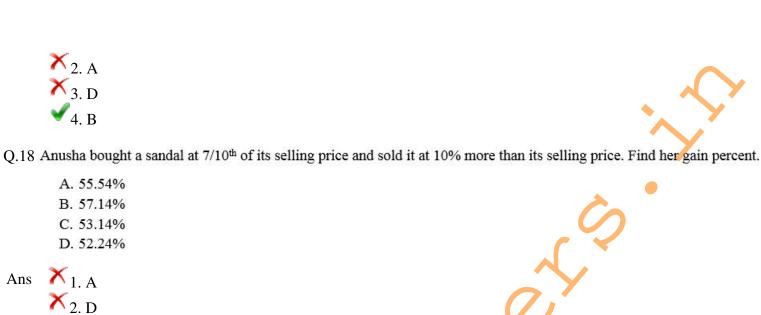


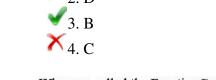
- O.14 What is the maximum score that can be scored in a game of ten-pin bowling?
 - A. 100
 - B. 200
 - C. 300
 - D. 400

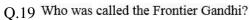
- Ans X_{1.B}
 - **√**2. C
 - ×3. A
- Q.15 Find the value of 73 x 73 + 42 x 42 2 x 73 x 42.
 - A. 961
 - B. 676
 - C. 981
 - D. 861

- Ans $\checkmark_{1.A}$
 - **X**_{2. D}
- O.1 If '<' denotes '-', '+' denotes '÷', '>' denotes '+', '-' denotes '=' '=' denotes '<' and 'x' denotes '>', then which of the
- 6 following statement is true?
 - A. $3 > 2 < 4 \times 8 + 4 < 2$
 - B. 3+2>4=9+3<2
 - C. $3 + 2 < 4 \times 9 + 3 < 3$
 - D. 3 > 2 > 4 = 18 + 3 < 1

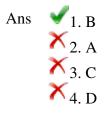
- Ans $\times_{1.C}$
 - **√**2. A
 - **X**_{3. B}
 - ×4. D
- O.17 Which Pallava king also wrote Sanskrit plays?
 - A. Raja Raja Chola
 - B. Mahendravarman I
 - C. Rajasimha
 - D. Vikramaditya





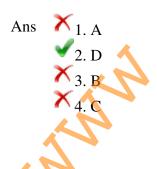


- A. Mahatma Gandhi
- B. Khan Abdul Ghaffar Khan
- C. C.Rajagopalachari
- D. Lala Lajpat Rai

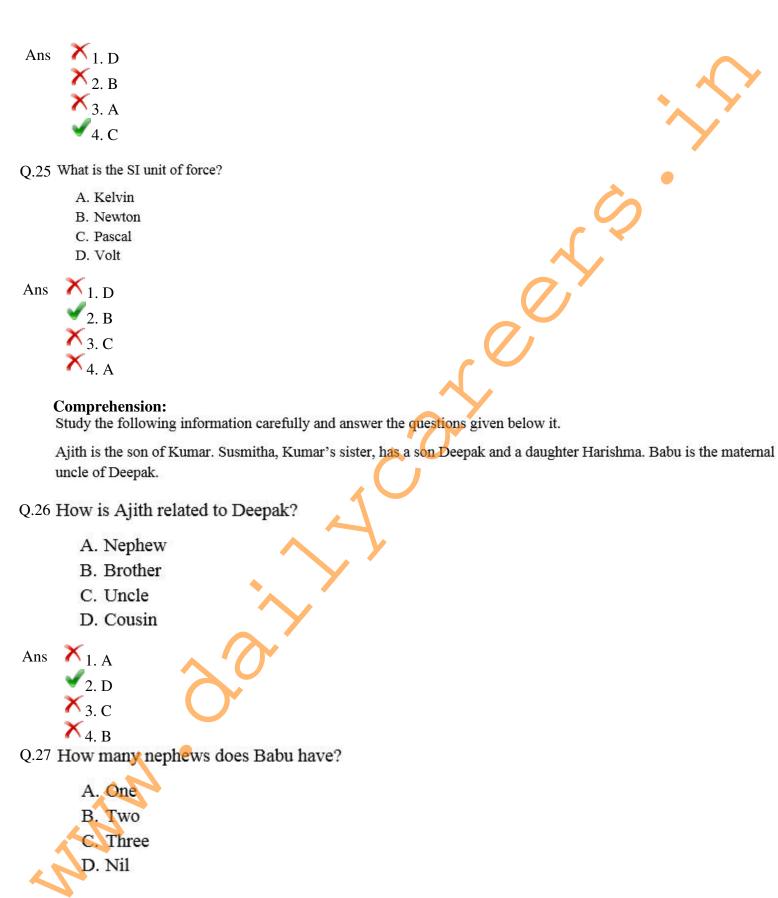


O.20 Where can you find Notre-Dame cathedral?

- A. California
- B. Leeds
- C. Belgium
- D. Paris



Q.21	Based on the analogy given, find the missing pair from the given options.
	11:1210::;
	A. 9: 729 B. 8: 448 C. 6: 216 D. 7: 1029
Ans	✓ _{1. B}
	× _{2. C}
	×3. D
	×4. A
Q.22	Who is the current President of ICC?
	A. Zaheer Abbas
	B. Sharad Pawar C. Ravi Shastri
	D. Shashank Manohar
Ans	× _{1. B}
	× _{2. D}
	×3. C
	✓4. A
Q.23	Find the HCF of 0.32, 2.72, 12.8, 14.4
	A. 16
	B. 1.6
	C. 0.16 D. 2.72
Ans	
	× _{2. B}
	√ 3. C
	X _{4. A}
Q.24	In what time will Rs. 10,000 deposited in a bank will amount to Rs. 13,310 at 10% per annum compounded annually?
	A. 4 years
	B. 5 years
	C. 3 years D. 6 years

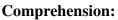


Q.28 How is Harishma related to Babu?

- A. Daughter
- B. Niece
- C. Sister
- D. Wife

Ans $X_{1.C}$

 $\chi_{2.D}$



Answer the questions on the basis of the following table:

Assume all colleges sent equal number of candidates in all subjects for the Examination.

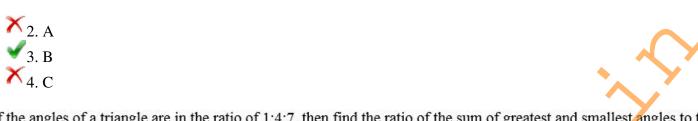
Percentage of passed students by subject

College	Maths	Physics	Chemistry	Botany	Zoology
P	52	65	62	40	47
Q	47	62	52	38	35
R	53	70	46	39	54
S	35	72	58	57	62

SubQuestion No: 29

- Q.29 Seeing the performance of all the four colleges together which combination of groups has shown the lowest level of passed students?
 - A. Chemistry and Botany
 - B. Physics and Chemistry
 - C. Zoology and Botany
 - D. Mathematics and Physics

Q.30 T	Taking the performance in all the subjects into account, which college has shown the highest level of passed students?
	A. P
	B. S
	C. R
	D. Q
Ans	✓1. B
	× _{2. A}
	× _{3. D}
	×4. C
Q.31	Taking all the colleges into account which subject has shown the lowest number of passed students?
	A. Chemistry
	B. Botany
	C. Physics
	D. Mathematics
Ans	X _{1. C}
11115	× _{2. A}
	✓3. B
	×4. D
	• • 4. D
Q.32	If $\cos A = 12/13$, then $\sin A (1 - \tan A) = ?$
	A. 32/135
	B. 32/137 C. 35/152
	D. 35/156
A m a	▼ 1. D
AllS	× _{2. A}
	2. A 3. B
	3. B 4. C
	4. C
Q.33	Who invented the fountain pen?
	A. Birdseyes
	B. Lewis E. Waterman C. Dr. Lee de Forest
	D. Augsberg
A .	
Ans	7. D



- Q.34 If the angles of a triangle are in the ratio of 1:4:7, then find the ratio of the sum of greatest and smallest angles to the smallest angle.
 - A. 8:1
 - B. 2:3
 - C. 7:1
 - D. 3:5

Ans X 1. B X 2. D X 3. A X 4. C

- Q.35 Rearrange the jumbled up letters in their natural sequence and find the odd one out.
 - A. LWKA
 - B. NRU
 - C. EPESL
 - D. UPJM

Ans 1. C 2. D 3. B 4. A

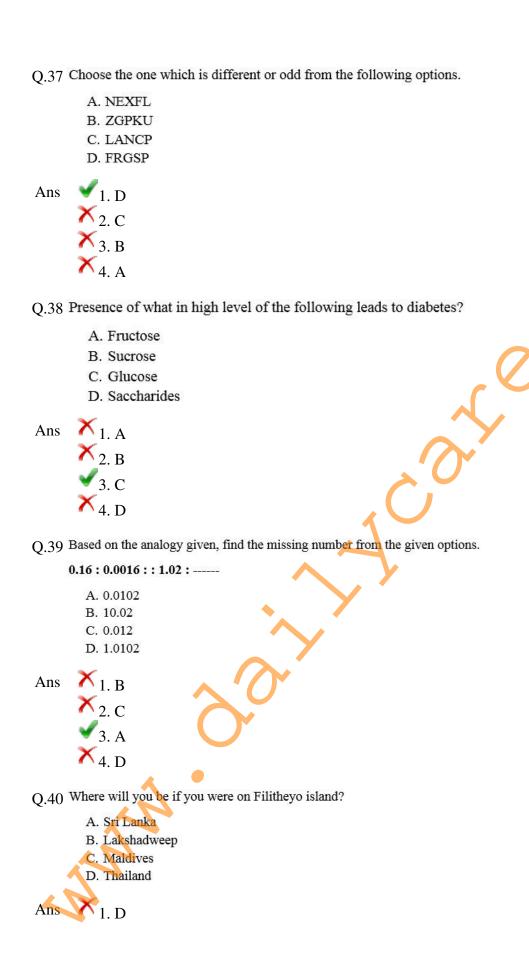
Q.3 In a college, 30 students can build 60% of a project in 5 days, what % of project can be built by 45 students in 2 days?

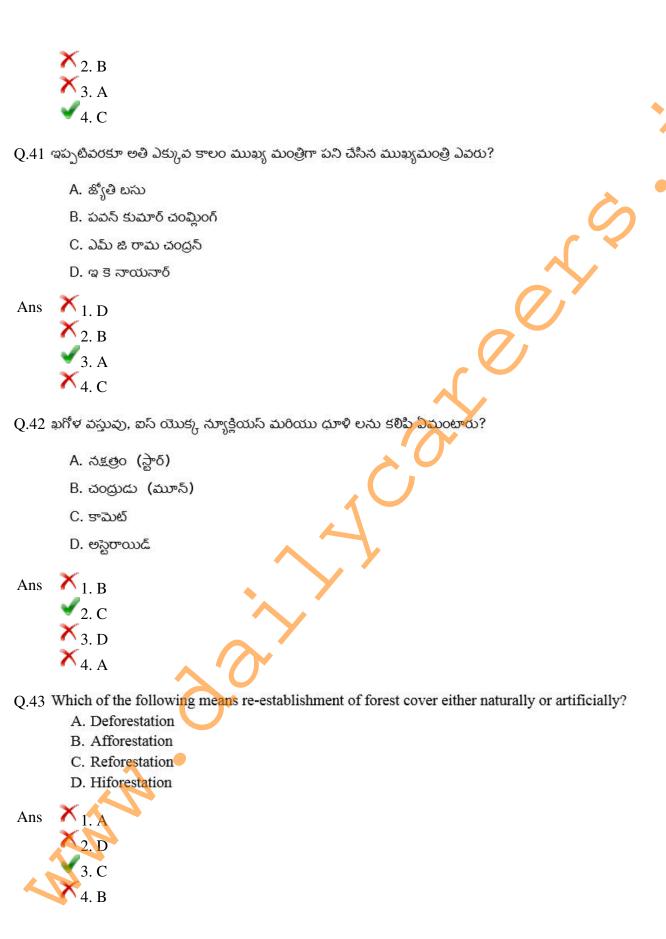
A. 36%

- B. 45%
- C. 33%
- D. 32%

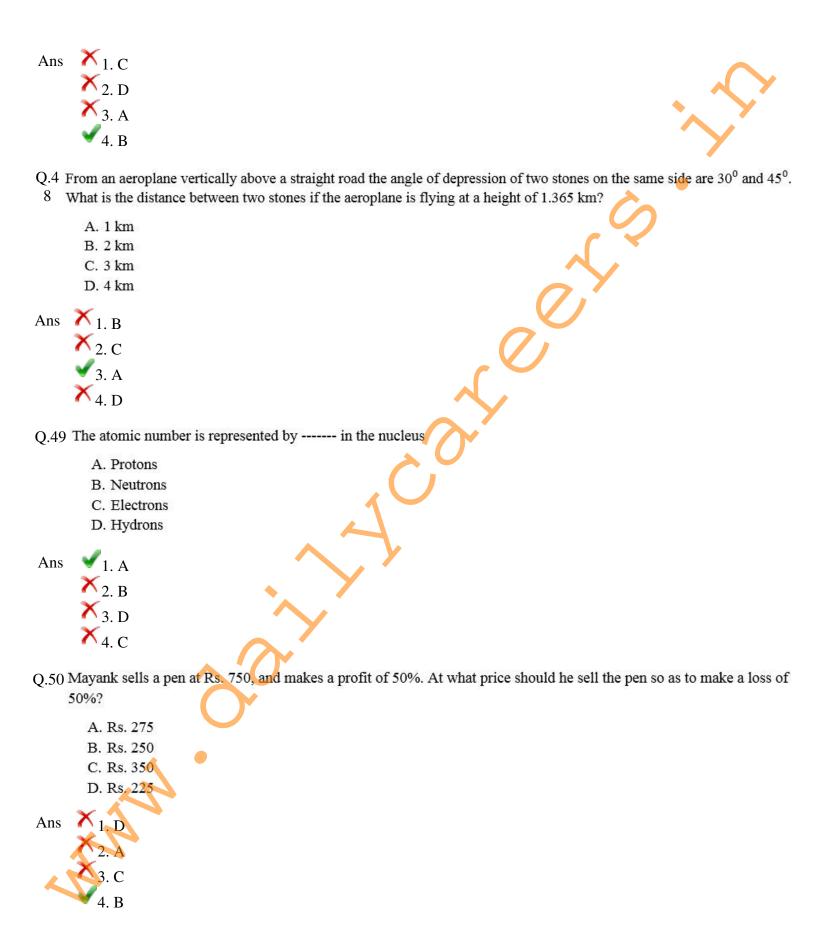
Ans X 1. B X 2. C

- J. D.
- 4. A





-	f in a certain code language, ORDINARY is written as 12467923, how will the word RADIAN be written in that code anguage?
	A. 249697 B. 294967 C. 294697 D. 246967
	√ 1. C
	X _{2. B}
	× _{3. D} × _{4. A}
Q.45	If $2^{x}-2^{x-1}=8$, then find the value of $2x^{2}+4x+3$
	A. 41 B. 20
	C. 21 D. 51
Ans	X _{1. B}
	X _{2. A} 3. D
	3. D ×4. C
0.46	
Q.46	Find correct alternative for Smile : Laugh : Cry
	A. Frown : Anger : Temper B. Touch : Catch : Release
	C. Stand : Sleep : Play
	D. Evening : Night : Day
Ans	X _{1. A}
	2. B X 3. C
	3. C 4. D
0.47	Which planet is called the morning/evening star?
Q.47	A. Mercury
•	B. Venus C. Mars
~	D. Saturn



	A. 1:3 B. 4:1 C. 1:4 D. 3:1
Ans	X 1. A 2. C X 3. D X 4. B
Q.52 T	he enrichment of an ecosystem with chemical nutrients, typically compounds containing nitrogen, phosphorus is called
	A. Eutrophication B. Sedimentation C. Hydrogenation D. Oxidation
	1. B 2. C 3. D 4. A
Q.53 ¹	f '+' means 'x', 'x' means '-', '-' means ' \div ' and ' \div ' means '+' then $2 \div 8 - 2 \times 12 + 4 =$
Ans	A. 12 B12 C. 21 D. 13 1. B 2. C 3. A 4. D

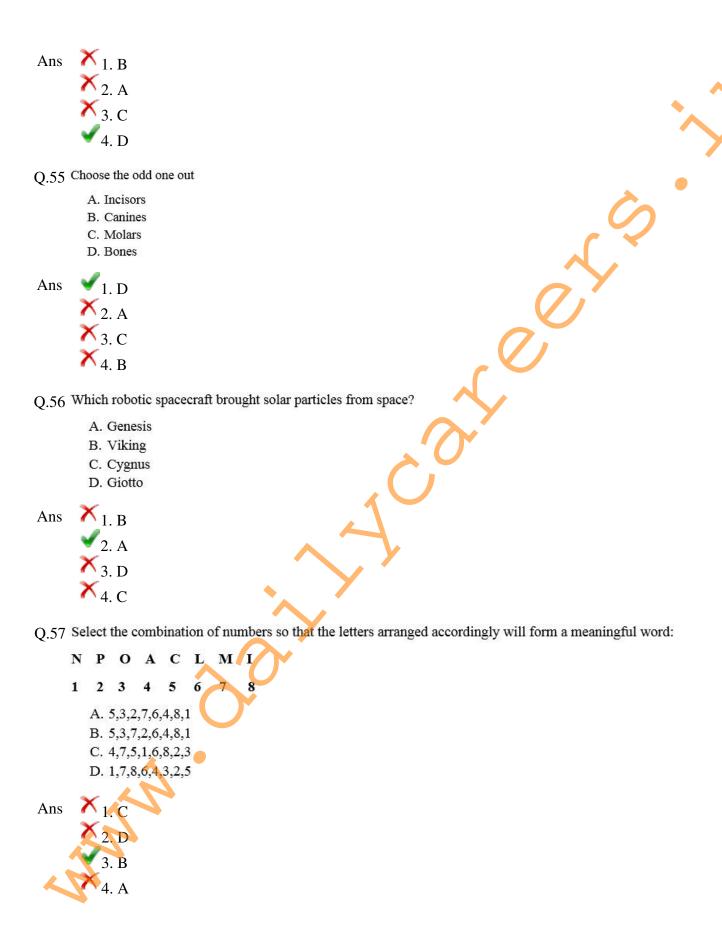
Q.54 Who is the Bollywood lyricist who created Guinness record for composing maximum number of songs?

A. Anand Bakshi

C. Sahir Ludhianvi D. Sameer Anjaan

B. Gulzar

Q.51 A is 3 times more efficient than B, ratio of number of days taken to complete a work X by A and B are in the ratio of



Q.58 Which of the following rivers has its origin in Tibet? A. Godavari B. Mahanadi C. Brahmaputra D. Son Ans X₁. B **√**2. C **×**_{3. A} Q.59 If the standard deviation of a population is 6, what would be the population variance? A. 6 B. 12 C. 24 D. 36 Ans 🗸 1. D **X**_{2. C} **×**_{3. A} ×4. B Q.60 A metro train of length 125 m crosses a metro station of length 75 m in 10 seconds. What is the speed of metro train? A. 72 km/hr B. 36 km/hr C. 18 km/hr D. 90 km/hr Ans **×**_{2. D}

- Q.61 An Assertion (A) and a Reason (R) are given below.
 - Assertion (A): A little gap is left between iron rails.
 - Reason (R): Iron expands in summer.

Choose the correct option.

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

Ans X_{1. A} **X**_{2. B}

√3. C

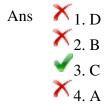
- Q.6 The ratio of spirit and water in two mixture of 20 litre and 36 litre is 3:7 and P: Q respectively. Both the mixture are mixed 2 together and the ratio of the spirit and water in the new mixture is 27:29. Find P: Q.
 - A. 3:2
 - B. 5:7
 - C. 7:5
 - D. 4:5

Ans X_{1.B}

- ×2. A
- **√**3. C
- **X**_{4. D}
- O.63 How many pairs of eyes do spiders have?
 - A. 1
 - B. 2
 - C. 4
 - D. 8

- Ans X 1. B

Q.64 At certain rate of simple interest, Rs. 800 amounts to Rs. 956 in 3 years find increase in rate percentage.	ears. If this sum amounts to Rs. 1052 in same period,
A. 7% B. 4% C. 5% D. 9.5%	
Ans	
Q.65 Which among the following is a prosthetic leg?	
A. Athletes foot B. Jaipur foot C. Crowfoot D. Tender foot	
Ans	
Q.66 Who according to Forbes 2016 list who is the richest person in th	e world?
A. Bill Gates B. Mark Zuckerberg C. Warren Buffet D. Mukesh Ambani	
Ans X 1. B X 2. C X 3. A X 4. D	
Q.67 What is a machine-readable code in the form of numbers and a	pattern of parallel lines of varying widths called?
A: Morse codes B. Passcodes C. Bar codes D. Pin codes	





Q.68 If the cloud is called blue, blue is called rain, rain is called black, black is called air, air is called yellow and yellow is called water, where will the birds fly?

- A. Blue
- B. Air
- C. Yellow
- D. Black

- Ans 🗸 1. C

 - ×_{2. A} ×_{3. D}

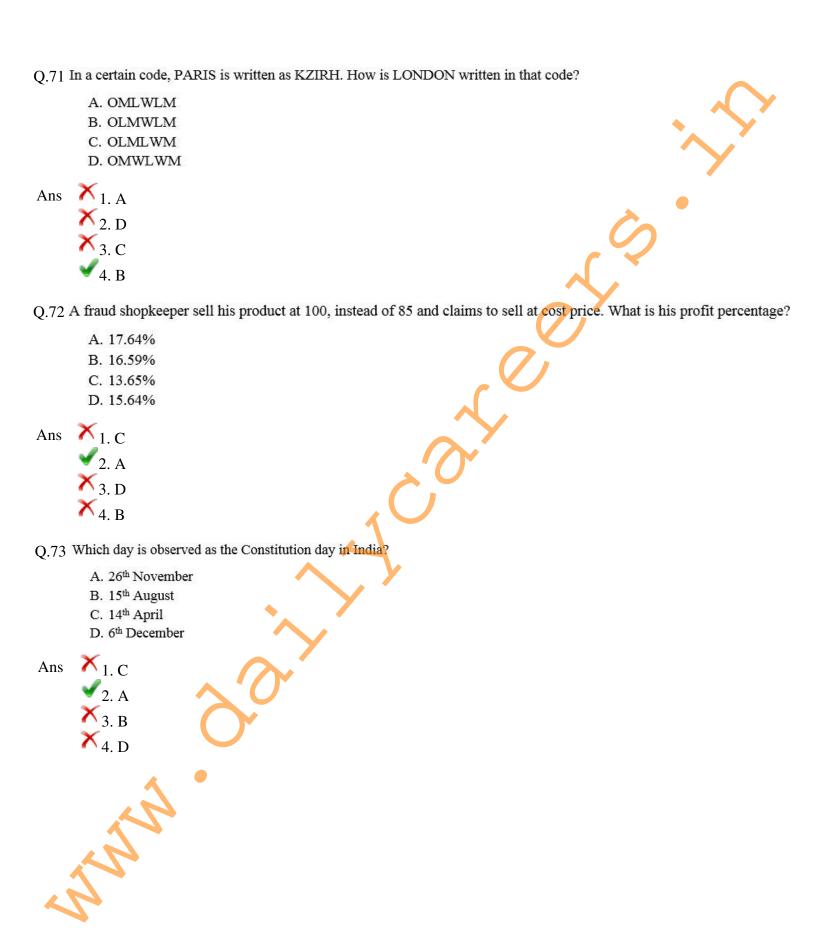
Q.69 Who currently holds the number one position in World Chess rankings?

- A. Sven Magnus Carlsen
- B. Yu Yangyi
- C. Surya Shekhar Ganguly
- D. Vladimir Kramnik

- Ans X_{1.D}

Q.70 Which of the following is an example for marsupials?

- A. Kangaroo
- B. Whale
- C. Giraffe
- D. Rooster



O.74 Consider the following statements & choose the correct options: When two straight lines intersect then, 1. Adjacent angles are complementary 2. Opposite angles are equal A. Both 1 & 2 are incorrect. B. Both 1 & 2 are correct C. 1 is incorrect and 2 is correct D. 1 is correct and 2 is incorrect Ans X_{1.D} **×**_{2. A} **√**3. C Q.75 Heart is related to Blood in the same way as Lung is related to A. Chest B. Respiration C. Air D. Oxygen Ans $X_{1.C}$ **√**2. D **×**_{3. A} Q.76 The mean of a distribution is 18 and the standard deviation is 7. What is the value of the coefficient variation? A. 50% B. 76.77% C. 54.44% D. 38.88% **X**_{1. B} Ans

- O.77 An Assertion (A) and a Reason (R) are given below.
 - Assertion (A): Indian President is the head of the State.
 - Reason (R): Indian Parliament consists of the President, Lok Sabha and Rajya Sabha.

Choose the correct option.

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







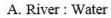


- Q.78 Given a=128, b=130 and c=132, Find the value of $a^3+b^3+c^3-3abc$.
 - A. 5000
 - B. 4680
 - C. 4280
 - D. 4890

Ans
$$\checkmark_{1. B}$$

Q.79 Choose the pair which is related in the same way as the words in the first pair from the given choices

Mountain: Height:: -



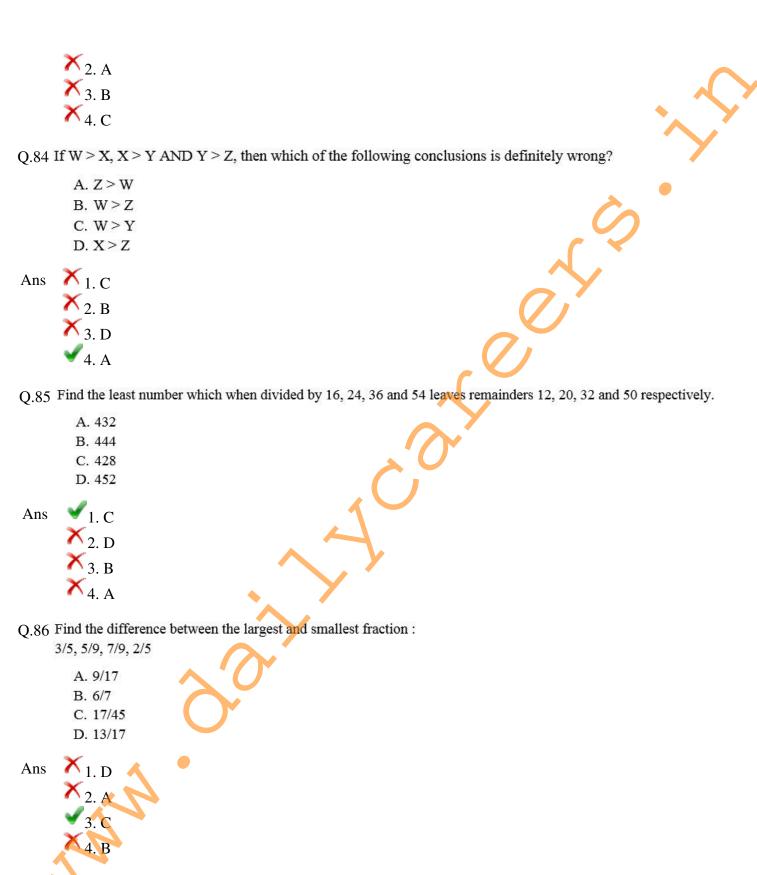
B. Cave: Depth

C. Valley: Beauty

D. Moon: Shadow

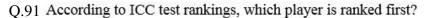
Q.80 Study of atmosphere is called? A. Atmosphology B. Meteorology C. Ecology D. Motellology Ans $X_{1.A}$ **√**2. B Q.81 Which of the following is an input device? A. Monitor B. Printer C. Floppy disk D. Joy stick Ans $\times_{1.C}$ **×**_{3. B} Q.82 Cache memory is a A. RAM B. ROM C. EROM D. EPROM Ans X_{1.D} **√**2. A Q.83 Who invented the revolver? A. William Hunt B. Robert H. Goddard C. Henry Ogle D. Samuel Colt

1. D



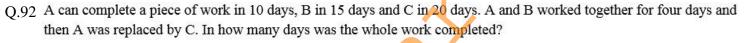
O.87 What is the name given to a material through which light can pass? A. Translucent B. Opaque C. Transparent D. Vitreous Ans X_{1.B} **√**2. C Q.88 If $3x^2+4y^2-8xy-2x+1 = 0$, then find the value of $(x+y)^2$ A. 3 B. 4 C. 5 D. 6 Ans 1. D 2. B 3. C 4. A Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates. Q.89 What does MMU stand for? A. Machine Memory Unit B. Memory Management Unit C. Main Memory Unit D. Machine Management Unit Ans $\times_{1.C}$ **×**_{4. A} O.90 A cloth supervisor rejects 0.09% of the clothes as defective. How many clothes will be examined to reject 18 clothes? A. 30000 B. 20000 C. 25000 D. 18000 Ans





- A. Virat Kohli
- B. AB de Villiers
- C. Steve Smith
- D. Aaron Finch

Ans V1. C ×2. D



- A. 16 days
- B. 48/7 days
- C. 42/7 days
- D. 18/7



×2. A



- A. December 15, 1905
- B. August 7, 1905
- C. February 26, 1906
- D. July 18, 1905







The following questions are based on the information given below:

Data on 450 students, who took an examination in Science, Mathematics and Social Sciences is given below: Number of students who

· Passed in all subjects: 167 · Failed in Science:191

· Failed in Mathematics: 199

• Failed in Social Science: 175

· Failed in all subjects: 60

· Passed in Science only: 52

· Passed in Mathematics only: 48

· Passed in Social Science only: 62

Q.98 How many failed in two subjects only?

A. 162

B. 152

C. 100

D. 52



Q.99 How many passed in Mathematics and at least one more subject?

A. 48

B. 210

C. 103

D. 203



