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# RAILWAY RECRUITMENT BOARDS
रेलवे भर्ती बोर्ड

## Level-1 Posts CEN-02/2018

**1. Options shown in green color with a tick icon are correct**
**2. Chosen option on top right of the question indicates the option selected by the candidate**
**3. The numbers indicated against the Question ID and Option ID are the numbers to be noted and used for raising objections**

**Q.1** $(136 \div 17) + (17 \times 13) - (103 - 85) \times (62 + 145) \div 23 = ?$

**Ans**
✗ 1. 75
✓ 2. 67
✗ 3. 59
✗ 4. 76

**Q.2** An electric lamp of 120 W is used for 8 hours per day. Calculate the units of energy consumed by the lamp in one day.

**Ans**
✗ 1. 16.00 unit
✗ 2. 1.50 unit
✓ 3. 0.96 unit
✗ 4. 2.00 unit

**Q.3** In which year was the Battle of Waterloo fought?

**Ans**
✗ 1. 1835
✓ 2. 1815
✗ 3. 1850
✗ 4. 1840

**Q.4** Which of the following does NOT belong to this group?

A. Cotton
B. Wool
C. Rayon
D. Cardboard

**Ans**
✓ 1. D
✗ 2. B

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✗ 3. C

✗ 4. A

**Q.5** Two resistors, one of 10 Ω and the other of 20 Ω, are connected in series to a 6 V battery. The current in the circuit will be ___.

**Ans**

✗ 1. 0.3 A

✓ 2. 0.2 A

✗ 3. 0.9 A

✗ 4. 0.6 A

**Q.6** If '+' becomes '÷' and '×' becomes '+' then what will be the value of $\{(36 + 6) + 6\} \times 12$?

**Ans**

✗ 1. 12

✗ 2. 6

✓ 3. 13

✗ 4. 21

**Q.7** In what time can Saloni cover a distance of 450 m, if she runs at a speed of 20Km/hr. ?

**Ans**

✓ 1. 81 sec

✗ 2. 320 sec

✗ 3. 3 minutes

✗ 4. 102 sec

**Q.8** A merchant incurred a loss of 5% by selling a book for ₹ 25.65. If he sells it for ₹ 31.05, find his gain percent or loss percent.

**Ans**

✓ 1. Gain 15%

✗ 2. Loss 15%

✗ 3. Gain 10%

✗ 4. Loss 10%

**Q.9**

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Consider the following statement and assumptions and decide which of the assumptions is implicit from the given statement.

**Statement:**

The school management has introduced compulsory swimming sessions for children below Class V.

**Assumptions:**

I. Younger children learn swimming faster.

II. The school wishes to enhance the overall development of children.

Ans
1. Both assumptions I and II are implicit
2. Neither assumption I nor II is implicit
3. Only assumption II is implicit
4. Only assumption I is implicit

**Q.10** Which of the following events is celebrated every year on January 9 to mark the contribution of the overseas Indian community in the development of India?

Ans
1. Unnatiya Bharat Divas (UBD)
2. Overseas Indian Development Day (OIDD)
3. Akhil Bharatiya Divas (ABD)
4. Pravasi Bharatiya Divas (PBD)

**Q.11** When the following decimals are arranged in ascending order then what decimal number should be in the middle?

5.74, 6.03, 0.8, 0.658 and 7.2

Ans
1. 6.03
2. 5.74
3. 7.2
4. 0.8

**Q.12** If in a coded language, COCK is written as DPDL, then how will HEN be written in that language?

Ans
1. HEO
2. IDP
3. ICO
4. IFO

**Q.13**

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Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statement:

- Some pins are metals.
- Some clips are metals.

**Conclusions:**

1. Some metals are pins.
2. Some pins are clips.

**Ans**

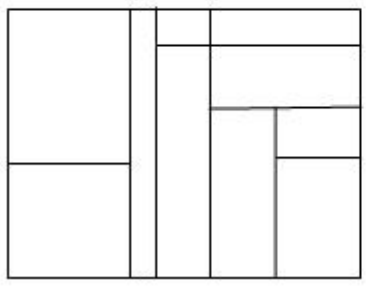
✗ 1. Both conclusions follow.

✗ 2. Only conclusion 2 follows.

✓ 3. Only conclusion 1 follows.

✗ 4. Neither conclusion follows.

**Q.14** How many rectangles are there in the following picture?



**Ans**

✗ 1. 20

✗ 2. 21

✗ 3. 22

✓ 4. 24

**Q.15** The value of $\{(.98)^3 + (0.02)^3 + 3 \times 0.98 \times 0.02 - 1\}$

**Ans**

✗ 1. 1.98

✗ 2. 1.09

✗ 3. 1.562

✓ 4. 0

**Q.16** The 2018 best tableau award in the republic day parade was given away by Union Defence Minister Nirmala Sitharaman to the state of:

**Ans**

✗ 1. Karnataka

✗ 2. Goa

✓ 3. Maharashtra

✗ 4. Gujarat

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Q.17 Which one of the following is NOT a simple permanent tissue?

Ans
1. Sclerenchyma
2. Parenchyma
3. Xylem
4. Collenchyma

Q.18 $\sin^2 60^0 + \cos^2 30^0 + \cot^2 45^0 + \sec^2 60^0 = ?$

Ans
1. $\frac{15}{2}$
2. $\frac{13}{2}$
3. $\frac{7}{2}$
4. $\frac{5}{2}$

Q.19 Read the given question and decide which of the following equations is/are sufficient to answer the question.

**Question:**

What is the value of x?

**Equations:**

1) $x^2 - 18x + 81 = 0$

2) $p + q + r = 0$

Ans
1. Only 1 is sufficient.
2. Either 1 or 2 is sufficient.
3. Neither 1 nor 2 is sufficient.
4. Only 2 is sufficient.

Q.20 The pH of the solutions are given. Which of the solutions has the highest concentration of hydrogen ions?

Ans
1. 10.1
2. 4.7
3. 2.4
4. 8.0

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**Q.21** A train crossed a 110 m long platform in 13.5 seconds and a 205 m long platform in 18.25 seconds. What was the speed of the train?

**Ans**

✔ 1. 72 km/h

✘ 2. 66 km/h

✘ 3. 69 km/h

✘ 4. 75 km/h

**Q.22** A cistern can be filled by two pipes A and B in 4 hours and 6 hours respectively. When full, the tank can emptied by a third pipe C in 8 hours. If all taps are turned on at the same time, the cistern will be full in?

**Ans**

✘ 1. $\frac{40}{7}$ hours

✔ 2. $\frac{24}{7}$ hours

✘ 3. $\frac{16}{7}$ hours

✘ 4. $\frac{31}{7}$ hours

**Q.23** Aadhya walks 500 m towards North and then turns left and walks 250 m. In which direction is she with respect to her initial position?

**Ans**

✘ 1. South-East

✔ 2. North-West

✘ 3. North-East

✘ 4. South-West

**Q.24** In which of the following plants is the plant body NOT differentiated into roots, stem and leaves?

**Ans**

✘ 1. Riccia

✘ 2. Chara

✘ 3. Marsilea

✔ 4. Spirogyra

**Q.25**

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Consider the given statement and decide which of the following assumptions is/are implicit in the statement.

**Statement:**

"The final exams are getting near", Rina reminded her daughters.

**Assumptions:**

I. She wants them to remember about their study schedule.

II. She wants them to give serious thought to their exams.

**Ans**

✔ 1. Both I and II are implicit.

✘ 2. Only II is implicit.

✘ 3. Neither I nor II is implicit.

✘ 4. Only I is implicit.

**Q.26** The Central Government's initiative aimed at bringing masses within the formal banking system is called:

**Ans**

✘ 1. Jan Bank Yojana

✔ 2. Jan Dhan Yojana

✘ 3. Jan Aadmi Yojana

✘ 4. Jan Rupaya Jojana

**Q.27** In March 2018, who released ` 1,000 and ` 10 commemorative coins on the occasion of the Nabakalebara festival at a function held in Puri, Odisha?

**Ans**

✘ 1. The Governor of Odisha

✘ 2. The Chief Minister of Odisha

✘ 3. The Prime Minister of India

✔ 4. The President of India

**Q.28** $4+4.44+44.4+4.04+444 -20 =?$

**Ans**

✔ 1. 480.88

✘ 2. 472.88

✘ 3. 495.22

✘ 4. 577.2

**Q.29** In which group of the modern periodic table are halogens placed?

**Ans**

✘ 1. $16^{th}$

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2. $18^{th}$

3. $1^{st}$

4. $17^{th}$

**Q.30** Senior IAS officer S Selvakumar has been appointed as new chairman and managing director of _____with effect from January 16, 2018.

**Ans**

1. The Development and Educational Communication Unit (DECU)

2. Security Printing and Minting Corporation of India Limited (SPMCIL)

3. The SHAR Centre

4. The Vikram Sarabhai Space Centre (VSSC)

**Q.31** A car covers a distance of 44 km using $2\frac{3}{4}$ litres of petrol. What distance can the car cover using 1 litre of petrol?

**Ans**

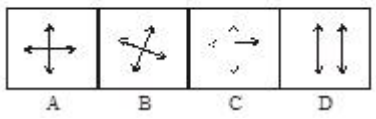
1. 14 km

2. 16 km

3. 13 km

4. 15 km

**Q.32** Find the odd one out.




**Ans**

1. D

2. A

3. B

4. C

**Q.33** निम्न में से कौन सा हार्मोन युवावस्था के समय लड़कों में दिखाई देने वाली उपस्थिति में बदलाव लाता है?

**Ans**

1. पशु हार्मोन

2. थाग्रोक्सिन

3. टेस्टोस्टेरोन

4. इंसुलिन

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Q.34 Which of the following states emerged as overall champions of the first (inaugural) edition of Khelo India School Games (KISG) held from 31st January to 8th February 2018 at Indira Gandhi Indoor Stadium?

Ans
1. Haryana
2. Gujarat
3. Maharashtra
4. Uttar Pradesh

Q.35 From which Indian princely state did Velu Thampi Dalava hail? He is known for revolting against the British.

Ans
1. Chola Kingdom
2. Mysore Kingdom
3. Vijayanagaram
4. Travancore

Q.36 उस विकल्प का चयन करें, जो तीसरे शब्द से ठीक उसी तरह संबंधित है जिस प्रकार दूसरा शब्द पहले शब्द से संबंधित है।
काँच : पारदर्शी : : लकड़ी : _____

Ans
1. फर्नीचर
2. पेंट
3. ब्लॉक
4. अपारदर्शी

Q.37 If two unequal masses possess the same kinetic energy, then the heavier mass has:

Ans
1. higher speed
2. lesser momentum
3. greater momentum
4. lower speed

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

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Q.38 If 15 boys earn ₹ 750 in 5 days, then how much money 25 boys will earn in 6 days?

Ans
1. 960
2. 1500
3. 1200
4. 900

Q.39 Which of the following compounds does NOT possess water of crystallisation?

Ans
1. Gypsum
2. Washing soda
3. Copper sulphate
4. Baking soda

Q.40 The velocity of vertically thrown ball, with time, will be:

Ans
1. Downwards positive
2. Downwards negative
3. Upwards negative
4. Upwards positive

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.41 Given is a statement followed by two assumptions numbered I and II. Consider the statement and the following assumptions and decide which of the assumptions is/are implicit in the statement.

**Statement:**

Sustainability can be defined as the practice of meeting the needs of the current generation without degrading or destroying the natural resources (e.g. water, soil, biodiversity, oil, minerals).

**Assumptions:**

I. Our lives and economies are dependent on natural capital, which is made up of these natural resources and natural services, and the energy provided by the sun.

II. Just as every investor knows, we should invest our capital and live off on the interest, or income, it provides. To live sustainably, we need to do the same: protect our natural capital and live off our biological income.

Ans
1. Only assumption II is implicit.
2. Neither assumption I nor II is implicit.
3. Only assumption I is implicit.
4. Both assumptions I and II are implicit.

Q.42

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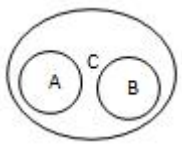
Which of the following Venn diagrams correctly represents the relationship between the given classes?

A) Table

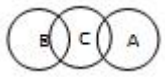
B) Cloth

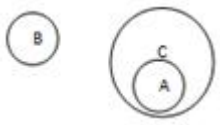
C) Wood

**Ans**

1. 


2.


3. 


4. 


Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

**Q.43** If South becomes South-East, then what will North become?

**Ans**

1. ✗ South-West
2. ✗ North-East
3. ✗ South-East
4. ✓ North-West

**Q.44** Lata makes 20 kg paneer at home and sells it every morning. From one litre of milk, she makes 200 gms of panner. The cost of a litre of milk is ₹ 40. How much money does she spend in procuring milk every day?

**Ans**

1. ✗ ₹ 3,000
2. ✓ ₹ 4,000
3. ✗ ₹ 2,000
4. ✗ ₹ 2,500

**Q.45** If $\alpha$ and $\beta$ are roots of the equation $x^2 - x - 1 = 0$, then the equation where roots are $\frac{\alpha}{\beta}$ and $\frac{\beta}{\alpha}$ is:

**Ans**

1. ✓ $x^2 + 3x - 1 = 0$
2. ✗ $x^2 + x - 1 = 0$
3. ✗ $x^2 - x + 1 = 0$
4. ✗ $x^2 + 3x + 1 = 0$

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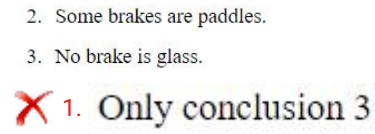
Q.46 If a+b+c=2s, then $[(s-a)^2+(s-b)^2+(s-c)^2+s^2]=?$

Ans
1. $(s^2-a^2-b^2-c^2)$
2. $(s^2+a^2+b^2+c^2)$
3. $(a^2+b^2+c^2)$
4. $(4s^2-a^2-b^2-c^2)$

Q.47 Find the odd one out.




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

Q.48 Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements.

**Statements:**

- No glass is a paddle.
- All paddles are brakes.

**Conclusions:**

1. All brakes are paddles.
2. Some brakes are paddles.
3. No brake is glass.

Ans
1. Only conclusion 3 follows
2. Only conclusion 2 follows
3. All the three conclusions follow
4. Only conclusion 1 follows

Q.49 निम्नलिखित में से कौन सा जानवर मुकलन (बडिंग) द्वारा पुनरुत्पादित करता है और पुनर्जनन कार्यान्वित कर सकता है?

Ans
1. प्लाज्मोडियम
2. ख़मीर
3. प्लानारिया
4. हायड्रा

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Q.50 If North-East becomes North, then what will East become?

Ans
1. South-East
2. North-East
3. North-West
4. South-West

Q.51 करेवा, जो मिट्टी /गाद का एक प्रकार है, किस भारतीय राज्य में पायी जाती है?

Ans
1. राजस्थान
2. पश्चिम बंगाल
3. नागालैंड
4. जम्मू व कश्मीर

Q.52 Choose the missing digit 'x' from the options given for the number 987x54, so that the number is completely divisible by 6.

Ans
1. 5
2. 3
3. 2
4. 1

Q.53 Electric bulbs are usually filled with chemically-inactive gases like ___.

Ans
1. hydrogen
2. oxygen
3. nitrogen
4. chlorine

Q.54 If the length and breadth of a rectangle are increased by 8% and 12% respectively, then by what percent does the area of that rectangle increase?

Ans
1. 22%
2. 24%
3. 20%
4. 20.96%

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Q.55 Who classified elements based on atomic numbers?

Ans
1. Newlands
2. Mendeleev
3. Dobereiner
4. Moseley ✓

Q.56 Who has been crowned Femina Miss India 2018?

Ans
1. Anukreethy Vas ✓
2. Shreya Rao Kamavarapu
3. Sunaina Kamath
4. Meenakshi Chaudhary

Q.57 A chemical reaction in which heat is generated is called a/an____.

Ans
1. endothermic reaction
2. exothermic reaction ✓
3. combustion reaction
4. displacement reaction

Q.58 Which of the following sport is Yuzvendra Chahal related to?

Ans
1. Tennis
2. Hockey
3. Shooting
4. Cricket ✓

Q.59 Who won the Filmfare Best Actor in a Leading Role (Male) award 2017?

Ans
1. Shahrukh Khan
2. Ra

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✔ 3. Aamir Khan

✗ 4. Ranbir Kapoor

Q.60 निम्नलिखित में से कौन सा एक समूह से संबंधित नहीं है?

A. नाखून

B. बाल

C. मुँहासे

D. पैर का अंगूठा

Ans

✗ 1. A

✗ 2. D

✗ 3. B

✔ 4. C

Q.61 Find the next number in the following series.

16, 18, 22, 24, 28, 30, ?

Ans

✗ 1. 25

✗ 2. 30

✗ 3. 27

✔ 4. 34

Q.62 Consider the given statements to be true even if they seem to be at variance with the commonly known facts and decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

- All covers are plastic.
- All plastic are toxic.

**Conclusions:**

1. All plastic are covers.
2. All toxic are covers.

Ans

✗ 1. All the conclusions follow.

✗ 2. Only conclusion 2 follows.

✗ 3. Only conclusion 1 follows.

✔ 4. No conclusions follow.

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Q.63 There are four numbers in a set. The mean of the three smallest numbers is 9, whereas the mean of the three largest ones is 11. What is the range of the data set?

Ans
1. 3
2. 6
3. 9
4. 5

Q.64 The point where entire weight of an object acts is known as the ___.

Ans
1. centre of friction
2. centre of mass
3. centre of gravity
4. centre of pressure

Q.65 $22 - [23 - \{24 - (27 - \overline{25 - 30})\}] = ?$

Ans
1. $-7$
2. 7
3. $-9$
4. $-8$

Q.66 If '+' means '÷', '÷' means '–', '–' means '×' and '×' means '+', then what is the value of $80 + 20 \div 5 - 12 \times 92$ ?

Ans
1. 28
2. 22
3. 36
4. 35

Q.67 The weight of an object on the moon is how many times its weight on the earth?

Ans
1. $\frac{1}{5}$ times
2. $\frac{1}{6}$ times
3. 5 times
4. 6 times

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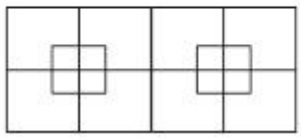
Q.68 Find the number of squares in the following figure.

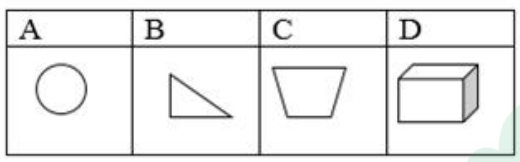


Ans
1. 22
2. 21
3. 23
4. 20

Q.69 Which of the following option figures are combined to form the question figure?

Question Figure

Option Figures




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

Q.70 The correct formula of calcium hydroxide is:

Ans
1. $CaOH_2$
2. $Ca_2OH$
3. $Ca(OH)_2$
4. CaOH

Q.71 Name the book authored by K. R. Meera which raises pertinent questions about the politics of faithfulness and the price of idealism.

Ans
1. Gilletin
2. Nethromeelanam

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✔ 3. The Gospel of Yudas

✘ 4. Aarachar

**Q.72** In a class there were 9 boys and some girls. In a test, the mean score obtained by the boys was 13 while that obtained by the girls was 15. If the overall average was 14.28, what was the total number of students in the class?

**Ans**

✘ 1. 24

✘ 2. 26

✘ 3. 27

✔ 4. 25

**Q.73** Mamata is the mother of Surya. How is Mamata's brother related to Surya's brother?

**Ans**

✘ 1. Grandfather

✘ 2. Father

✘ 3. Brother

✔ 4. Maternal uncle

**Q.74** The name of the comprehensive mentorship programme tailored exclusively for Indian startups that are using Machine Learning (ML) and Artificial Intelligence (AI) to build solutions for the pressing problems in the country is:

**Ans**

✔ 1. Launchpad Accelerator India

✘ 2. Modernization Accelerator India

✘ 3. Automation Accelerator India

✘ 4. MLAI Accelerator India

**Q.75** A ray of light passes from water to glass. It bends:

**Ans**

✘ 1. away from the normal and speeds up

✘ 2. away from the normal and slows down.

✔ 3. towards the normal and slows down

✘ 4. towards the normal and speeds up

**Q.7**

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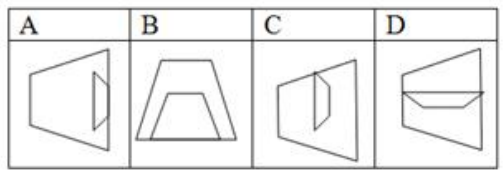
6 Which of the option figures bears the closest resemblance to the question figure?

Question figure:

Option figures:




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

Q.77 A 40 kg girl runs up a flight of stairs having a rise of 5 m in 4 s. The power developed by her will be ___.

(take g= 10 $m/s^2$)

Ans
1. 100 W
2. 200 W
3. 500 W
4. 2000 W

Q.78 If ₹ 686 is divided, into four parts, in proportions $\frac{1}{2}:\frac{2}{3}:3:4$, then the first part is?

Ans
1. ₹ 52
2. ₹ 42
3. ₹ 56
4. ₹ 48

Q.79 The Election Commission of India (ECI) celebrated 8th National Voters' Day across nation on _____ for enhanced participation of citizens in electoral process.

Ans
1. 28th January
2. 25th January
3. 24th January
4. 26th January

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Q.80 Which is the longest river of Europe?

Ans
1. Danube
2. Volga
3. Ural
4. Rhine

Q.81 Find compound interest on ₹ 50000 at 12% per annum for 6 months, compounded quarterly.

Ans
1. ₹ 3045
2. ₹ 2875
3. ₹ 3125
4. ₹ 2965

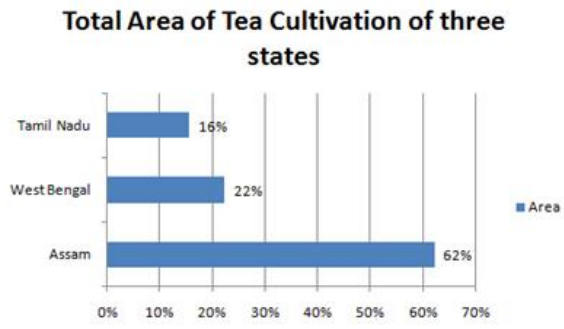
Q.82 The Ministry of Women and Child Development had launched a social media campaign to mark _____ on 11 August 2016.

Ans
1. Women's Day
2. Daughter's Day
3. Son's Day
4. Men's Day

Q.83 The induced current is highest when the direction of motion of the coil is at _____ with respect to the magnetic field.

Ans
1. 0°
2. 45°
3. 180°
4. 90°

Q.84 Study the following graph carefully and answer the question that follows.




Area cultivated in West Bengal is what percentage more than that cultivated in Tamil Nadu?

Ans
1. 6%

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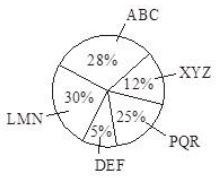
2. 8%

3. 4%

4. 3%

**Q.85** The given pie chart shows information about the mobile phone manufacturing companies in India. The total number of mobile phone units manufactured is 12,40,000.




How many units of mobile phones are manufactured by company 'DEF'?

**Ans**

1. 1,24,000

2. 62,000

3. 31,000

4. 15,600

**Q.86** The breakdown of pyruvate using $O_2$ takes place in the ___.

**Ans**

1. lysosomes

2. nucleus

3. vacuoles

4. mitochondria

**Q.87** Which of the following nations is the only country to win the ICC Under-19 Cricket World Cup four times?

**Ans**

1. New Zealand

2. South Africa

3. Australia

4. India

**Q.88** Which of the following numbers will have an irrational square root?

**Ans**

1. 11025

2. 6025

3. 9025

4. 3025

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Q.89 Who was awarded the 2017 Sahitya Academy award for his English novel 'The Black Hill'?

Ans
✗ 1. Vikram Seth
✗ 2. Chetan Bhagat
✗ 3. Amitav Ghosh
✓ 4. Mamang Dai

Q.90 The digit in the units place of the number represented by ( $7^{95} - 3^{58}$ ) is:

Ans
✗ 1. 6
✗ 2. 7
✗ 3. 0
✓ 4. 4

Q.91 The lengths of one side of a rhombus and one of the two diagonals are 6 cm each. The area of the rhombus (in $cm^2$ ) is:

Ans
✗ 1. $27\sqrt{3}$
✗ 2. 18
✗ 3. $9\sqrt{3}$
✓ 4. $18\sqrt{3}$

Q.92 The ratio 75 : 125 in its simplest form is written as:

Ans
✓ 1. 3 : 5
✗ 2. 5 : 3
✗ 3. 2 : 3
✗ 4. 3 : 2

Q.93 Which of the following is malleable and ductile?

Ans
✗ 1. Phosphorus
✗ 2. Sulphur
✗ 3. Carbon

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✔ 4. Copper

**Q.94** Sound waves with frequencies below the audible range are called:

**Ans**
✘ 1. ultrasonic
✔ 2. infrasonic
✘ 3. supersonic
✘ 4. ultrasound

**Q.95** Which among the following union ministers of India launched the mobile app 'Celebrating Yoga' to connect people through Yoga for scientific healthy living?

**Ans**
✘ 1. Mahesh Sharma
✔ 2. Harsh Vardhan
✘ 3. Jagat Prakash Nadda
✘ 4. Smriti Irani

**Q.96** A ball is dropped from a height of 80 m. The distance travelled by it in the fourth second will be___.
(take g=10 $m/s^2$)

**Ans**
✘ 1. 50 m
✘ 2. 15 m
✘ 3. 80 m
✔ 4. 35 m

**Q.97** 5-8% of acetic acid is called:

**Ans**
✘ 1. glacial acetic acid
✔ 2. vinegar
✘ 3. ester
✘ 4. ethanol

**Q.98** If P is 15 years now and Q will be 26 years old after 6 years, what is the ratio of their present ages?

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Ans
1. 4 : 1
2. 3 : 4
3. 2 : 1
4. 2 : 3

Q.99 Given is a statement followed by two arguments numbered I and II. Consider the statement and the following arguments and decide which of the arguments is/are strong?

**Statement:**

Are 21st century teenagers under stress?

**Arguments:**

I. Yes, teenagers' perception is that they are expected to be successful or good at *everything*. Failure has somehow gone from being viewed as a learning opportunity to being clearly unacceptable.

II. No, stress is a relative perception that can be managed with proper guidance.

Ans
1. Only argument II is strong.
2. Both arguments I and II are strong.
3. Only argument I is strong.
4. Neither argument I nor II is strong.

Q.100 Find the day name of 24 March 2006?

Ans
1. Monday
2. Friday
3. Wednesday
4. Sunday

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