

RRB NTPC MODEL PAPER 3

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1) Bharat Ratna and Padma Vibhushan awards	C) Anopheles Mosquito
in mula were instituted in the year	D) Sand-fly
A) 1958	6) Which ruler constructed the highest and
B) 1968	biggest gate way of victory, Buland Darwaja?
C) 1964	A) Aurangzeb
D) 1954	B) Akbar
2) Which of the following instruments	C) Jahangir
measures electromagnetic radiation?	D) Ghori
A) Pyrheliometer	7) India won — medals at the Asia Games
B) Cathetometer	2018 held in Indonesia
C) Bolometer	A) 69
D) Phonograph	B) 39 TM
3) The total forest cover in India as per the	C) 49
2011 census is	D) 29
A) 22.07 %	8) As of February 2019, who is the Governor of
B) 21.05 %	Tamil Nadu?
B) 21.05 % C) 1 7.80 %	Tamil Nadu? A) BD Mishra
B) 21.05 % C) 1 7.80 % D) 23.42 %	Tamil Nadu?A) BD MishraB) Jagadish Mukhi
 B) 21.05 % C) 1 7.80 % D) 23.42 % 4) Where was the Sanskrit Kumbh,a 29 days 	Tamil Nadu?A) BD MishraB) Jagadish MukhiC) OP Kohli
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 B) 21.05 % C) 1 7.80 % D) 23.42 % 4) Where was the Sanskrit Kumbh,a 29 days cultural extravaganza, held in January 2019 ? A) Chandra hila B) Sanprayag C) Agastramuni D) Prayagraj 5) Which of the following is the vector of malaria? 	Tamil Nadu?A) BD MishraB) Jagadish MukhiC) OP KohliD) Banwarilal Purohit9) Article of the constitution of India provides special rights and privileges to permanent residents of Jammu KashmirA) 34AB) 32AC) 35A
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10) The imperial Bank of India was ren in 1955	named as	15. Which of the following will be India's first solar mission?
A) Punjab National Bank		A) Aditya-LL mission
B) The state Bank of India		B) Aditya-L1 mission
C) Central bank of India		C) Aditya-XL mission
D) Allahabad Bank		D) Aditya-x1 mission
11) Which is largest freshwater lake ir	n India?	16. Who is the author of the book "the ministry
A) Pangong tso		of utmost Happiness?
B) Gular lake		A) Kiran Desai
C) Udai Sagar		B) Chetan Bhagat
D) Chilka lake		C) Arundhati Roy
12) Which drug is used for pain Relief	?	D) Jhumpa Lahari
A) Risedronal		17.'Boat race' is the part of which festival?
B) Tramadol		A) Pongal
C) Folic Acid		B) Onam
D) Buproin		C) Bihu
13) The National Defense Academy is	located	D) Navratri
at		18. S.I Unit of Luminas intensity is
A) MT.Abu		A) Lumen
B) Hyderabad		B) Lux
C) Khadakvasla		C) Candela
D) New Delhi		D) Walt
14. World Health day is observed on?		19. How many number of the Biogeographic
A) 3rd April		Zones are resent in India?
B) 4th April		A) 4
C) 5th April		B) 8
D) 7th April		C) 10







D) 15	A) 63rd
20. Where did Gautama Buddha preach his first	B) 35th
sermon?	C) 26th
A) Bodh Gaya	D) 102nd
B) Rajgriha	25. The watershed between India and
C) Sarnath	Myanmar is formed by
D) Vaishali	A) The Naga Hills
21. In the sultanate period, the highest rural	B) The Garo hills
authority for land revenue was	C) The Khasi hills
A) Chowdhury	D) The Jaintia hills
B) Rawat	26. Clove is obtained from
C) Malik	A) Root TM
D) Patwari	B) Stem
22. Under which part of the Indian constitution	C) Leaves
Directive principles of the state policy are	
	D) Flower buds
A) Part II	27. Which of the following was India's first interplanetary mission?
B) Part III	
C) Part IV	A) Chandrayan
D) Part V	B) Aryabhata
23. Which of the following is the leading	C) Mangalyaan
sediment transporting river in India?	D) Philae mission
A) Brahmaputra	28. Right to privacy comes under
B) Yamuna	A) Article 19
C) Ganga	B) Article 20
D) Indus	C) Article 21
24. India ranked On the World Bank's Ease	D) Article 18
טו הסווא ממצוווהצא נפוואוטא לחדאנ	29. CPU performance is often measured in







A) GB		34. The atomic power station in Rajasthan is
B) MHZ		situated at
C) MIPS		A) Pokhran
D) Baud rate		B) Suratgarh
30. Which one among the following	g is	C) Rawatbhata
responsible for formation of "Ozon	ne Holes" in	D) Chittogarh
the Atmosphere?		35. The Sahiya Akademi Awards are given for
A) Benzo pyrene		best writings in how many Indian languages?
B) Hydrocarbons		A) 12
C) Chlorofluro Carbons		B) 15
D) UV radiation		C) 20
31. Security Council of UNO consist	ts of	D) 24 TM
permanent members		36. The outermost range of Himalaya is called
A) 3		A) Kali
B) 4		B) Shiwalik
C) 5		C) Dehradun
D) 6		D) Kumaom
32. Numismatics is the study of		27 Among the following states has the lowest
A) Coins		birth rate in India.
B) Numbers		A) Kerala
C) Stamps		B) Uttar Pradesh
D) Space		C) Bihar
33. Sodium calcium Silicate is called	d	D) West Bengal
A) Hard glass		38 .C.K Naidu Cup is associated with which of
B) Borosilicate glass		the following Sporting events?
C) Soft glass		A) Tennis
D) Jena glass		B) Cricket







C) Hockey

D) Golf

39. Who introduced leather token currency in India?

A) Akbar

B) Mohammad-bin-Tugblaq

C) Babur

D) Humayan

40. Which of the following storage device is volatile in nature?

A) RAM

B) Hard disk

C) Magnetic

D) ROM

41. Five Boys A, B, C, D, E are sitting in a circle facing inside. A is facing South-West,D is facing South-East, Band E are right Opposite A and D respectively and C is neighbor of both D and B. Which direction is C facing?

A) West

B) South

C) North

D) East

42. CFIL: ORUX:: DGJM:?

A) BFVV

B) NQST

C) HJLN

D) RTVX

43. 392:28:: 722:?

A) 18

B) 28

C) 38

D) 48

44. From the given alternatives select the word which cannot be formed using the letters of given word. LAUGHTER

A) GATE

B) RATE

C) HATE

D) GRUNT TM

45. Rahul and Robin are brothers. Pramod is Robin's father Sheela is pramod's sister.prema is pramod's niece.Shubha is Sheela's granddaughter. How is Rahul related to Shubha?

A) Brother

B) Cousin

C) Uncle

D) Nephew

46. In the given figure, which letter represents broom, which is word but not long?



A) H

B) G







C) F	
D) K	
47. Statements: 1) No man is a monkey	
2) Hari is a man	A) 12
Conclusions: I) Hari is not a monkey	B) 8
II) All men are not Hari	C) 16
A) Only Conclusion I follow.	D) 10
B) Only Conclusion II follows	51. \sqrt{AFI} =M, \sqrt{ADD} =L: \sqrt{ABA} =?
C) Both I&II follow	A) I
D) Neither conclusion I nor conclusion II follows	В) К
48. Statements: I) All grapes are green	C) N TM
II) Some green are hard	D) O
Conclusion: I) some green are grapes	52. Choose the odd one
II) Some hard are grapes	A) LNJ
II) Some hard are grapes III) No grape is hard	A) LNJ B) RTP
II) Some hard are grapes III) No grape is hard A) Only Conclusion I follow and either II or III follows	A) LNJ B) RTP C) NPK
 II) Some hard are grapes III) No grape is hard A) Only Conclusion I follow and either II or III follows B) Only conclusion I and II follows 	A) LNJ B) RTP C) NPK D) FHD
 II) Some hard are grapes III) No grape is hard A) Only Conclusion I follow and either II or III follows B) Only conclusion I and II follows C) Only conclusion I and III follows 	A) LNJ B) RTP C) NPK D) FHD 53. Choose the odd pair
 II) Some hard are grapes III) No grape is hard A) Only Conclusion I follow and either II or III follows B) Only conclusion I and II follows C) Only conclusion I and III follows D) All conclusion follow 	A) LNJ B) RTP C) NPK D) FHD 53. Choose the odd pair A) Broad-Wide
 III) Some hard are grapes III) No grape is hard A) Only Conclusion I follow and either II or III follows B) Only conclusion I and II follows C) Only conclusion I and III follows D) All conclusion follow 49. HJRN, JMTQ, LPVT, NSXW? 	A) LNJ B) RTP C) NPK D) FHD 53. Choose the odd pair A) Broad-Wide B) Tiny-Small
 II) Some hard are grapes III) No grape is hard A) Only Conclusion I follow and either II or III follows B) Only conclusion I and II follows C) Only conclusion I and III follows D) All conclusion follow 49. HJRN, JMTQ, LPVT, NSXW? A) QWYY 	 A) LNJ B) RTP C) NPK D) FHD 53. Choose the odd pair A) Broad-Wide B) Tiny-Small C) Light-Heavy
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 II) Some hard are grapes III) No grape is hard A) Only Conclusion I follow and either II or III follows B) Only conclusion I and II follows C) Only conclusion I and III follows D) All conclusion follow 49. HJRN, JMTQ, LPVT, NSXW? A) QWYY B) QVAA C) PVZZ D) PVYZ 	 A) LNJ B) RTP C) NPK D) FHD 53. Choose the odd pair A) Broad-Wide B) Tiny-Small C) Light-Heavy D) Big-Large 54. If 'REASON' is coded as 5 and 'BELIEVED' as 7, then what is the code number for 'GOVERNMENT'







B) 6	B) U and 36
C) 9	C) W and 64
D) 8	D) X and 81
55. 4, 18? 100, 180, 294.	59. Find the missing one
A) 32	- 1 11- 0 29
B) 36	
C) 48	full) figue
D) 40	A) 5
56. Find missing one	B) 6
$\frac{1}{R}, \frac{3}{O}, \frac{5}{K}, \frac{9}{F}, \frac{13}{Z}, ?$	C) 12
A) 19/S	D) 9 TM
В) 20/Т	60. If p denotes ' ', Q denotes '', R denotes '+',
C) 19/T	and S denotes '-', then 18Q12P4R5S6=?
D) 21/R	A) 95
57. Arrange the words in meaningful order	B) 53
1) Collector 2) Governor 3) Chief secretary 4)	C) 51
president 5) clerk	D) 57
A) 1, 2,3,4,5	61. Ravi walks 8km North-East and then 6Km
B) 5, 1,3,2,4	South-East. Find the total distance as well as shortest distance starting and end points
C) 5, 1,3,4,2	A) 14Km, 12Km
D) 5, 1,4,3,2	B) 14Km, 10Km
58. Find out missing number &letters	C) 10Km, 8Km
20 25 5	D) 8Km, 6Km
k_9 F I_6	62. What will be the angle between hour hand and minute hand, if clock shows 8:30pm?
19	A) 90°
A) Y and 40	







B) 75°

C) 60°

D) 85°

63. Which figure best represents the relationship between editor, Newspaper and Journalist?

A)



B)



C)

000

D)

64. The Average weight of 35 students in a class is 35kg.If the teacher is also included the Average increases 36kg.the Weight of the teacher is

 \bigcirc

A) 36Kg

B) 72kg

C) 70Kg

D) 71Kg

65. ABC is a triangle and sides AB, BC and CA are produced to E, F and G respectively. If $\angle CBE = \angle ACF$ =130, then the value of $\angle GAB$

A) 100°

B) 80° C) 130°

D) 90°

66. The centroid of a Δ ABC is G.The area of ABC is 60 cm².The area of Δ ABC is

A) 30cm²

B) 40cm²

C) 10cm²

D) 20cm²

TM

67. Area of 4 walls of a cuboid is 57sq m.,if its length is 5.5m and height is 3m.What is its breath(in m)?

A) 4.5

- B) 4
- C) 3
- D) 3.5

68. A Trader had 630Kgs of rice. He sold a part of it at 15% Profit and the rest at 8% profit, 80 that the made a total profit of 12%. How much rice (in Kgs) did he sell at 8% profit

- A) 270
- B) 300
- C) 280
- D) 290





4

69. If $\frac{2x}{3} - \frac{\left[\frac{5(4x)}{5} - \left(\frac{4}{3}\right)\right]}{2} = \frac{1}{3}$, then what is the value of x?	th pe scl
A) $\frac{9}{4}$	A)
B) $\frac{4}{9}$	B)
C) $\frac{-9}{4}$	C)
D) $\frac{-4}{-4}$	D)
70. A Shopkeeper sold an item at 10% loss after giving a discount equal to half the marked price. The cost price is	74 be Rs of
A) $\frac{1}{9}th$ Of marked price	A)
B) $\frac{4}{9}$ th Of marked price	B)
$C)\frac{5}{9}th$ Of marked price	C) D)
$D)\frac{7}{9}th$ Of marked price	75
71. If $cos^4A - sin^4A = X$, then value of X is?	Su ho
$A)cos^2A - 1$	fie
$B)2cos^2A-1$	A)
C) $2cos^2A + 1$	B)

D) $cos^2A + 1$

72. What is the equation of line its slope is and 4 intercept is 5?

A) 3x+4y=20

B) 3x+4y=-20

- C) 3x-4y=-20
- D) 3x4y=20

73. The ratio of the number of boys and girls in a school is 2:3.If 25% of the boys and 30% of

the girls are scholarship holders, the percentage of the school students who are not scholarship holders is

- 4) 72%
- B) 36%
- C) 54%
- D) 60%

74. The simple and compound interest that can be earned in two years at the same rate is Rs.4000 and 4180 respectively. What is the rate of interest?

A) 18

4.5 TM

C) 9

D) 12

75. Amit and Sumit can plough a field in 4 days. Sumit alone can plough the field in 6 days in noe many days will Amit alone plough the ield?

- A) 10 days
- B) 12 days
- C) 14 days
- D) 15 days

76. The radius of a circular wheel is $\frac{7}{4}$ m .How many revolutions does the wheel make to cover 22Km?

- A) 2000
- B) 1000
- C) 4000







D) 100	81. If a+b+c=13, a ² +b ² +c ² =69,then find ab+bc+ca
77. If 'n' is a nature number, then $(6n^2 + 6n)$ is always divisible by	A)-50
A) 6 only	B) 50
B) 6 and 12 both	C) 69
C) 12 only	D) 75
D) By 18 only	82. $\sqrt{1369} + \sqrt{.0615} = 37.25$ If, then 'x' is equal to
78. If the sum of two numbers is 55 and the H.C.F and L.C.M of these numbers are 5 and 120 respectively, then the sum of the	A) 10 ⁻¹ B) 10 ⁻²
reciprocals of the numbers is equal to $A)\frac{55}{601}$	C) 10 ⁻³
B) $\frac{601}{55}$	D) None TM 83. The mean of 1^2 , 2^2 , 3^2 , 4^2 , 5^2 , 6^2 , 7^2 is
$C)\frac{11}{120}$	A) 10
$D)\frac{120}{11}$	B) 20
79. The value of is 4. $\sqrt{2}$	C) 30
A) $4\frac{11}{90}$	D) 40
B) $4\frac{11}{99}$	84. When the number of a function increases by 4, the fraction increases by .The donominator of the fraction is
C) $\frac{371}{900}$	
D) None	R) 2
80. The value of $(1+\frac{1}{2})(1+\frac{1}{3})(1+$	6) 3
$\left(\frac{1}{4}\right)\ldots\left(1+\frac{1}{120}\right)$ is	
A) 30	n/2n+1
B) 40.5	85. $\frac{(243)^{-7} \times 3^{2n+1}}{9^n \times 3^{n-1}}$ =?
C) 60.5	A) 1
D) 121	B) 3







C) 9

D) 3ⁿ

86. 36 men can be complete a piece of work in 18 days. In how many days will 27 men complete the same work?

A) 12

B) 18

C) 22

D) 24

87. A person travels from P to Q at a speed 40kmph and returns by increasing his speed by 50%.What is his average speed for both the trips?

A) 36kmph

B) 45kmph

C) 48kmph

D) 59kmph

88. Two trains, one Howrah to Patna and the other from Patna to Howrah, start simultaneously. After they meet, the trains reach their destinations after 9 hours and 16 hours respectively. The ratio of their speeds is

A) 2:3

B) 4:3

C) 6:7

D) 9:16

89. If $\ log\, 27 = 1.\,431$, then the value of $\$ is

A) 0.934

B) 0.945

C) 0.954

D) 0.958

90. A metallic hemisphere is method and recast in the shape of a cone with the same base radius(R) as that of the hemisphere. If H is height of the cone, then

A) H=2R

B) H=3R

C) H= $\sqrt{3}$ R

D) $H = \frac{2}{3}R$

91. A motor boat can travel at 10km/hr in still water it travelled 91km downstream in a river and then retained to the same place, taking altogether 20 hours. Find the rate of flow of river

A) 3km/hr

B) 4km/hr

C) 2km/hr

D) 5km/hr

92. The sum pf first 20 odd natural numbers is

A) 210

B) 300

C) 400

D) 420

93. A sum of many becomes triple itself in 16 years in how many years will it become 5 times at the same rate?

- A) 32
- B) 15







C) 27

D) 30

94. The number of revolutions a wheel of diameter 40cm makes in travelling a distance of 176m is

A) 240

B) 140

C) 40

D) 340

95. Sachin is younger than Rahul by 7 years .If the ratio of their ages is 7:9, find the age of sachin?

A) 23.5

B) 24.5

C) 12.5

D) 14.5

96. Which state hosted the first meeting of NITI forum for North-East

A) Tripura

B) Nagaland

C) Arunachal Pradesh

D) Mizoram

97. Which app has been launched by Prime Minister Narendra Modi for government services?

A) Bharat

B) Ujala

C) Umang

D) Bhim yug



98. Which of the following leaders presided over the congress session at Calcutta in 1906? A) BAL Gangadhar Tilak B) Gopal Krishna Gokhle C) Aurobindo Ghosh D) Dhadabhai Naoroji 99. Navjot starts moving towards the west. After covering some distance he turns left and then takes a right which direction is he facing now? A) South B) North TM C) West D) East 100. What is used to prevent freezing of fuel in space crafts? A) Benzene B) Glycol C) Acetylene D) Ester





SOLUTIONS:	Onam is an annual Hindu Festival of Kerala in
1. Answer, D	India
2. Answer, C	Boat rate is part of Onam Festival
3. Answer , B	18. Answer , C
4. Answer, D	19. Answer , C
Prayalgraj-uttarpradesh it is sold	20. Answer , C
5. Answer, C	21. Answer, A
6. Answer, B	22. Answer , C
7. Answer, A	23. Answer, C
India won 15-gold medals	24. Answer, A
24-silver medals	25. Answer, A
30-Bronze medals	26. Answer, D ^M
8. Answer, D	27. Answer, B
	28. Answer , C
9. Answer, C	
9. Answer, C 10. Answer, B	29. Answer, C
 9. Answer, C 10. Answer, B On 1 July 1955, the imperial Bank of India 	29. Answer , C The number of machine code instructions a
 9. Answer, C 10. Answer, B On 1 July 1955, the imperial Bank of India become the state bank of India 	29. Answer , C The number of machine code instructions a computer can process while executing a standard program is measured in MIPS
 9. Answer, C 10. Answer, B On 1 July 1955, the imperial Bank of India become the state bank of India 11. Answer, B 	 29. Answer, C The number of machine code instructions a computer can process while executing a standard program is measured in MIPS 30. Answer, C
 9. Answer, C 10. Answer, B On 1 July 1955, the imperial Bank of India become the state bank of India 11. Answer, B 12. Answer, B 	 29. Answer, C The number of machine code instructions a computer can process while executing a standard program is measured in MIPS 30. Answer, C 31. Answer, C
 9. Answer, C 10. Answer, B On 1 July 1955, the imperial Bank of India become the state bank of India 11. Answer, B 12. Answer, B 13. Answer, C 	 29. Answer, C The number of machine code instructions a computer can process while executing a standard program is measured in MIPS 30. Answer, C 31. Answer, C Russia, UK, France, China & USA
 9. Answer, C 10. Answer, B On 1 July 1955, the imperial Bank of India become the state bank of India 11. Answer, B 12. Answer, B 13. Answer, C NDA is located in Khadkvasta near pune, 	 29. Answer, C The number of machine code instructions a computer can process while executing a standard program is measured in MIPS 30. Answer, C 31. Answer, C Russia, UK, France, China & USA 32. Answer, A
 9. Answer, C 10. Answer, B On 1 July 1955, the imperial Bank of India become the state bank of India 11. Answer, B 12. Answer, B 13. Answer, C NDA is located in Khadkvasta near pune, Maharashtra 	 29. Answer, C The number of machine code instructions a computer can process while executing a standard program is measured in MIPS 30. Answer, C 31. Answer, C Russia, UK, France, China & USA 32. Answer, A 33. Answer, C
 9. Answer, C 10. Answer, B On 1 July 1955, the imperial Bank of India become the state bank of India 11. Answer, B 12. Answer, B 13. Answer, C NDA is located in Khadkvasta near pune, Maharashtra 14. Answer, D 	 29. Answer, C The number of machine code instructions a computer can process while executing a standard program is measured in MIPS 30. Answer, C 31. Answer, C Russia, UK, France, China & USA 32. Answer, A 33. Answer, C 34. Answer, C
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38. Answer, B

C.K naidu ->first captain of the Indian Cricket

39. Answer, B

40. Answer, A

41. Answer, D



42. Answer, A

The pattern is +12, +12, +12, +12

43. Answer, C

14*12=28, 14*14*12=392

Similarly 19*2=38

19*19*2=722

44. Answer, C





46. Answer, C

47. Answer, A



48. Answer, A



49. Answer, C

+2, +3, +2, +3 series

50. Answer, C

51. Answer, B

 $\sqrt{AFI} = \sqrt{169} = 13 = M$

 $\sqrt{ADD} = \sqrt{144} = 12 = L$

Similarly $\sqrt{ABA} = \sqrt{121} = 11 = K$

52. Answer, C



53. Answer, B

Light is antonym of geavy.But in other pairs words are synonyms of each other

54. Answer, C

Given reason=5

Believed=7

Here, pattern is (number of letters-1)

Government =Number of letters-1

=10-1

=9

55. Answer, C

Pattern is as shown







56. Answer, A

Pattern

$$\frac{+2}{k^{-3}} \xrightarrow{+2} 5 \xrightarrow{+4} 9 \xrightarrow{+4} 13 \xrightarrow{+6} 19$$

$$k^{-3} \xrightarrow{-4} k^{-5} \xrightarrow{-6} z \xrightarrow{-7} s$$

Missing term— 19/s.

57. Answer, B

Clerk \rightarrow collector \rightarrow chief secretary \rightarrow Governor \rightarrow president

58. Answer, B

Starting from letter A in Anti-clock wise direction.

$$A \stackrel{\pm 2}{\longrightarrow} c \stackrel{\pm 8}{\longrightarrow} F \stackrel{\pm 4}{\longrightarrow} J \stackrel{\pm 5}{\longrightarrow} 0 \stackrel{\pm 6}{\longrightarrow} 0$$

Starting from number 4 in Anti-clock wise direction.

2²=4, 3²=9, 4²=16, 5²=25, 6²=36 and 7²=49

?=u and 36

59. Answer, B

Fig (1)
$$\frac{25}{5} = 45 - 40 \Rightarrow 5 = 5 = 5$$

Similarly Fig (2) $\frac{48}{8}$ = 22-16 = ? \Rightarrow 6 = 6 = ?

So missing number =6

60. Answer, B





Here, total distance= AB=BC =14km

Shortest distance = AC = $\sqrt{AB^2 + BC^2}$ = $\sqrt{8^2 + 6^2}$ =10km

62. Answer, B

$$\theta = \left| \frac{11}{2}(m) - 30(h) \right| \text{ h=8, m=30^{\circ}}$$
$$\theta = \left| \frac{11}{2} \times 30 - 30(8) \right| \Rightarrow \theta = 75^{\circ}$$

63. Answer, D

64. Answer, D



65. Answer, A



Sum of exterior angles = 360°







X+130°+130°=360°

X=100°

66. Answer, D

Area of $\triangle BGC = \frac{1}{3}$ area of $\triangle ABC$

 $=\frac{1}{3} \times 60$

=20cm²

67. Answer, B

Area of 4 walls of cuboid=57cm²

$$2(l \times b) \times h = 57 \Rightarrow 2(l \times b) \times 3 = 57$$

$$\Rightarrow 5.5 + b = \frac{19}{2}$$

b =4cm

68. Answer, A

Using allegation



Quality sold at 8%=630× $\frac{3}{7}$ =270

69. Answer, A

70. Answer, C

C.P=100, E.P=90
$$\Rightarrow$$
 90 + $\frac{1}{2}x = x \Rightarrow x = 180$

C.P=100, M.P=180

 $\frac{C.P}{M.P} = \frac{100}{180} = \frac{5}{9}$



71. Answer, B

$$X = \cos^4 A - \sin^4 A$$

= $(\cos^2 A + \sin^2 A)(\cos^2 A - \sin^2 A) = (\cos^2 A - \sin^2 A)$
= $(\cos^2 A - (1 - \cos^2 A))$
= $2\cos^2 - 1$

72. Answer, C

Slope m=
$$\frac{3}{4}$$

Point= (0, 5)

Eqn. $(y-y_1) = m(x-x_1)$

$$y - 5 = \frac{3}{4}(x - 0)$$
$$\Rightarrow 3x - 4y = -20$$

$$\Rightarrow 3x - 4y = -2$$

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73. Answer, A

Not holding scholarship

$$\operatorname{Req} \% = \frac{360}{500} \times 100 = 72\%$$

74. Answer, C

S.I C.I 1st yest 2000 2000 2nd 11 2000 2180

Rate % = $\frac{180}{2000} \times 100 = 9\%$

75. Answer, B

Amit's 1 days' work= $\left(\frac{1}{4} - \frac{1}{6}\right) = \frac{1}{12}$

Amit alone can plough the field in 12 days





76. Answer, A

D=n (2π2)

77. Answer, B

 $(6n^2+6n)=6n (n+1)$, which is always divisible by 6 and 12 both, since n (n+1) is always even.

78. Answer, C

Let numbers a&b a + b=55 & ab=5 × 120 = 600

$$\therefore Req \ sum = \frac{1}{a} + \frac{1}{b} = \frac{a+b}{ab} = \frac{55}{600} = \frac{11}{120}$$

79. Answer, A

$$4.\sqrt{2} = 4 + 0.\sqrt{2} = 4 + \frac{12-1}{90} = 4\frac{11}{90}$$

80. Answer, C

Given $\text{Exp} = \frac{3}{2} \times \frac{4}{3} \times \frac{5}{4} \times \dots \times \frac{121}{120}$ =60.5

81. Answer, B

$$(a + b + c)^{2=a^{2}+b^{2}+c^{2}=2(ab+bc+ca)}$$

= $\frac{(ab + bc + ca)}{2}$
= $\frac{(a + b + c)^{2} - (a^{2} + b^{2} + c^{2})}{2}$
= 100

82. Answer, C

$$37 + \sqrt{.0615 + x} = 37.25 \Leftrightarrow \sqrt{.0615 + x}$$
$$= 0.25$$
$$\Leftrightarrow 0.615 + x = (0.25)^2 = 0.0625$$
$$\Leftrightarrow x = .001 = \frac{1}{10^3} = 10^{-3}$$



$$1^{2} + 2^{2} + 3^{2} + \dots n^{2} = \frac{n(n+1)(2n+1)}{6}$$
$$= \frac{7 \times 8 \times 15}{6}$$

So, average= $\frac{140}{7} = 20$

84. Answer, D

Let fraction
$$\frac{x}{y} \frac{x+y}{y} - \frac{x}{y}$$

 $\Leftrightarrow \frac{4}{y} = \frac{2}{3}$

$$\Rightarrow y = \frac{4 \times 3}{2} = 6$$

85. Answer, C

$$\frac{(3^5)^{\frac{n}{5}} \times 3^{2n+1}}{(3^2)^n \times 3^{n-1}} = \frac{3^{n+2n+1}}{3^{2n+n+1}}$$
$$= 3^{(3n+1-3n+1)} = 3^2 = 9$$

86. Answer, D

Let men, more days (Indirect proportion)

$$\therefore 27:36 :: 18: x \Leftrightarrow 27 \times = 6 \times 18$$

 $\Rightarrow \frac{36 \times 18}{27} = 24$

87. Answer, C

Speed on return trip= 150% of 40=60kmph

Average Speed=
$$\left(\frac{2 \times 40 \times 60}{40 + 60}\right) = \frac{4800}{100} = 48 km/hr$$

88. Answer, B

A's speed: B's speed= \sqrt{b} : \sqrt{a}

$$=\sqrt{16}:\sqrt{9}=4:3$$

89. Answer, C







 $\log 27 = 1.431 \Rightarrow \log(3^3) = 1.431$ $\Rightarrow 3 \log 3 = 1.431$ $\Rightarrow \log 3 = 0.477$ $\log a = \log(3^2) = 2\log 3 = 2(0.477)$ =0.954 90. Answer, A $\frac{2}{3}\pi R^3 = \frac{1}{3}\pi R^2 H$ H=2R 91. Answer, A $\frac{91}{10+x} + \frac{91}{10-x} = 20$ X=3km/hr 92. Answer, C Sum of 1^{st} 20 odd numbers= n^2 =20²=400 93. Answer, A $\frac{n_{1-1}}{16} = \frac{n_{2-1}}{t_2} \Rightarrow \frac{2}{16} = \frac{4}{t_2} = t_{2=36y}$ 94. Answer, A Number of revolutions= $\frac{Distance\ travelled}{CIrcumference}$ = $\frac{176 \times 100}{2\pi r} = \frac{176 \times 100 \times 7}{2 \times 22 \times 20} = 140$ 95. Answer, B R=S+7; S: R=7:9 7x=9x+==72x=7 Sachin = $\frac{7 \times 7}{2}$ =24.5 96. Answer, A 97. Answer, B



UMANG \rightarrow "unified mobile application for Newage Governance"

98. Answer, D

99. Answer, C

100. Answer, B

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