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WBCS

Previous Year Paper Mains 2015 Paper VI



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2015

TEST BOOKLET

Paper - VI

Time allowed : 3 hours

Full marks : 200

Answer *all* the questions

Questions are of equal value

TEST BOOKLET SERIES



Serial No. 1284

Roll No. :

Signature of the Candidate :

INSTRUCTIONS

Candidates should read the following instructions carefully before answering the questions :

1. This booklet consists of 36 pages including this front page. Verify the Page Nos. and bring at once to the Invigilator's notice any discrepancy.
2. Answer will have to be given in the Special Answers-Sheet supplied for the purpose.
3. Before you proceed to mark in the Answer-Sheet in response to various items in the Test Booklet, you have to fill in some particulars in the Answer-Sheet as per instructions sent to you in the Admit Card. **Do not fold the Answer-Sheet as this will result in error in your marks.**
4. All questions are of multiple-choice answer-type. You will find four probable answers (A), (B), (C) and (D) against each question. Find out which of the four answers appears to you to be correct or the best. Now darken the oval corresponding to the letter of the selected answer in the Answer-Sheet with **Black Ball Point Pen** as per instructions printed on the reverse of the Admit Card and in the Answer-Sheet.
5. If more than one oval is encoded for a particular answer, it will be treated as a wrong answer.
6. **There will be negative marking for wrong answers 1/3 mark will be deducted for each wrong answer.**
7. **The Special Answer-Sheet should be handed over to the Invigilator before leaving the Examination Hall. You are permitted to take away the used Test Booklet after completion of the examination.**
8. There is a blank page at the end of this booklet for rough work.
9. Candidates are not **allowed** to use **Calculator** in the Examination

[Please Turn Over]



$$\frac{10}{3}, \frac{12}{5}, \frac{14}{7}, \frac{20}{9}, \frac{5}{2} =$$

$$\frac{10}{3} \times 630, \frac{12}{5} \times 630, \frac{14}{7} \times 630, \frac{20}{9} \times 630, \frac{5}{2} \times 630$$

2100, 4725, 1440, 1400, 1575

CDW-(C)10/15

$$\frac{1}{2}, \frac{2}{5}, \frac{2}{7}, \frac{2}{9}, \frac{1}{2} \text{ D-2}$$

$$3 \overline{) 2, 5, 7, 9, 2}$$

$$\begin{array}{r} 21 \\ 630 \\ \hline 1890 \end{array}$$

$$\begin{array}{r} 240 \\ 630 \\ \hline 105 \end{array}$$

$$5 \overline{) 10, 12, 16, 20, 15}$$

$$\begin{array}{r} 8 \\ 630 \\ \hline 240 \end{array} \quad \frac{8}{21} \times 100$$

1. Five bells tolled together and since then they began to toll at intervals $3\frac{1}{3}, 2\frac{2}{5}, 2\frac{2}{7}, 2\frac{2}{9}$ and $2\frac{1}{2}$ secs. They will again toll together after

(A) 3 minutes

(B) 4 minutes

(C) 5 minutes

(D) 6 minutes

$$\begin{array}{r} 5 \overline{) 2100, 4725, 1440, 1400, 1575} \\ \underline{420, 945, 288, 280, 315} \\ 2 \overline{) 84, 189, 288, 56, 63} \\ \underline{42, 189, 144, 28, 63} \\ 7 \overline{) 14, 63, 48, 28, 21} \\ \underline{2, 9, 48, 4, 3} \\ 3 \overline{) 2, 9, 48, 4, 3} \\ \underline{2, 1, 16, 4, 1} \\ 2 \overline{) 2, 1, 8, 2, 1} \\ \underline{1, 1, 4, 1} \end{array}$$

2. Two pipes can fill a cistern in 20 minutes and 30 minutes respectively. Both pipes being opened, time when the first pipe must be turned off so that cistern may be filled in 10 minutes more will be

(A) 8 minutes

(B) 9 minutes

(C) 10 minutes

(D) 12 minutes

$$\frac{1}{20} + \frac{1}{30} = \frac{3+2}{60} = \frac{5}{60}$$

$$= \frac{1}{12} \text{ part}$$

$$\frac{1}{30} \times 10 = \frac{1}{3}$$

3. B starts from the same place 3 hours after A who runs 4 km. an hour. If B runs $5\frac{1}{2}$ km. an hour distance at which B will overtake A will be

(A) 40 Km.

(B) 44 Km.

(C) 48 Km.

(D) 52 Km.

$$\frac{11}{2} \times 3 \text{ h.} = \frac{33}{2} \text{ km.}$$

4. The boys of a school can be arranged in 15, 18 or 24 equal rows and also into a perfect square. The least number of boys in the school is

(A) 900

(B) 1600

(C) 2500

(D) 3600

$$3 \overline{) 15, 18, 24} \quad 3 \overline{) 18, 24}$$

$$2 \overline{) 5, 6, 8} \quad 2 \overline{) 5, 6, 8}$$

$$5, 3, 4 \quad 5, 3, 4$$

$$3 \times 2 \times 5 \times 2 \times 2 \times 2$$

$$3 \times 40 = 120$$

$$360 \times 10 = 3600$$

5. In an examination full marks is 1000 - A gets 20% more marks than B and B gets 25% more marks than C. If C gets 500 marks, percentage of marks that A gets is

(A) 50%

(B) 60%

(C) 75%

(D) 80%

$$125 \times \frac{25}{100} = 31.25$$

$$625 \times \frac{20}{100} = 125$$

$$750$$

$$\frac{750}{1000} \times 100 = 75\%$$

6. No of Zeros in the product of natural numbers from 1 to 10 will be

(A) 4

(B) 3

(C) 2

(D) 1

$$1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7 \times 8 \times 9 \times 10$$

$$24 \times 5 = 120$$

$$120 \times 6 = 720$$

$$720 \times 7 = 5040$$

$$5040 \times 8 = 40320$$

$$40320 \times 9 = 362880$$

$$362880 \times 10 = 3628800$$

$$\begin{array}{r}
 \text{SP } 80 \quad 21 \text{ or } 100 \\
 \text{ " } 100 \quad \text{ " } \frac{100}{25} \times 100 \\
 \hline
 2125
 \end{array}$$

$$\begin{array}{r}
 325 \\
 105 \\
 325 \\
 \hline
 100 \\
 100 \\
 105 \\
 \hline
 21
 \end{array}$$

92

$$\begin{array}{r}
 21 \overline{) 325} \\
 \underline{21} \\
 115 \\
 \underline{105} \\
 10
 \end{array}$$

D-3

CDW-(C)10/15

7. A Seller sold an article with 20% loss. If he sold the article with Rs. 200 more he would have a profit of 5%. Cost price of the article was

- (A) Rs. 600
- (B) Rs. 800
- (C) Rs. 1000
- (D) Rs. 1200

$$\begin{array}{r}
 \text{CP} = 100 \quad \text{SP} = 80 \\
 \text{SP } 80 \quad \text{CP } 100 \\
 \hline
 \text{CP } x
 \end{array}$$

8. A can do a work in 24 days. If B's efficiency is 60% more than A, B can do the whole work in

- (A) 12 Days
- (B) 15 Days
- (C) 18 Days
- (D) 20 Days

$$\begin{array}{r}
 \text{A } 24 \text{ days} \quad \text{B } 60 \\
 \text{A } 1 \quad \text{B } \frac{60}{100} \\
 \hline
 \frac{60}{100} \times 24 \\
 \hline
 14.4
 \end{array}$$

9. Speeds of a motorbike and a scooter are in the ratio 7:4. If the motor bike takes 4 hours to go 140 km., time taken by the scooter to go 60 km. is

- (A) 2 hrs.
- (B) $2\frac{1}{2}$ hrs.
- (C) 3 hrs.
- (D) $3\frac{1}{2}$ hrs.

$$\begin{array}{r}
 4 \overline{) 140} \quad 5 \overline{) 140} \\
 \underline{12} \quad \underline{70} \\
 20 \quad 70 \\
 \hline
 35 \text{ km.}
 \end{array}$$

10. One dozen of bananas were available in a particular price. At present only 10 bananas are available in that price. Increase in price is

- (A) 20%
- (B) 15%
- (C) 10%
- (D) 5%

$$\begin{array}{r}
 12 \text{ doz. } = 1200 \text{ v.} \\
 10 \text{ doz. } = 1000 \text{ v.} \\
 \hline
 \frac{1000 - 1000}{1200 - 1000} = \frac{0}{200} = 0\%
 \end{array}$$

11. A, B, C can do a piece of work in 20, 30 and 60 days respectively. If A is assisted by B and C on every third day the work will be finished in

- (A) 10 days
- (B) 15 days
- (C) 18 days
- (D) 20 days

$$\begin{array}{r}
 \frac{1}{20} + \frac{1}{30} + \frac{1}{60} \\
 \hline
 \frac{3 + 2 + 1}{60} = \frac{6}{60} = \frac{1}{10}
 \end{array}$$

12. Price of a new machine is Rs. 36,000. If its price is reduced by 10% every year, after two years price of the machine will be

- (A) Rs. 22,450
- (B) Rs. 25,640
- (C) Rs. 28,760
- (D) Rs. 29,160

$$\begin{array}{r}
 36,000 \times \frac{19}{100} \\
 \hline
 32,400
 \end{array}$$

13. A sum of money amounts double in 12 years 6 months. It will amount thrice in
- (A) 18 years
(B) 20 years
(C) 25 years
(D) 27 years

14. In examination 65% passed in Bengali, 55% passed in Mathematics and 40% passed in both subjects. If 40 examinees failed in both subjects number of examinees was

- (A) 160
(B) 200
(C) 240
(D) 280

~~160~~

$$n \times \frac{65}{100} = \frac{65}{100} \text{ of } n$$

$$\frac{n \times 55}{100} = \text{of } n$$

15. Two trains start at the same instant, one from Kolkata to Modhupur and other from Modhupur to Kolkata. If they arrive Modhupur and Kolkata respectively 1 hr. and 4 hrs. after they pass each other, ratio of the speed of the two trains are

- (A) 2:1
(B) 3:2
(C) 4:1
(D) 4:3

16. A train can go from Burdwan to Howrah in 6 hours and another train can go from Howrah to Burdwan in 4 hours. Both of them start at 7 A.M. They will meet at

- (A) 9-15 A.M.
(B) 9-22 A.M.
(C) 9-24 A.M.
(D) 9-25 A.M.

17. A man spends in 4 months what he earns in 3 months. If his annual savings is Rs. 45,000 his monthly income is

- (A) Rs. 15,000
(B) Rs. 18,000
(C) Rs. 20,000
(D) Rs. 22,000

Spends $\frac{3n}{4}$

$$\therefore n - \frac{3n}{4} = \frac{45,000}{12}$$

$$\frac{1n}{4} = \frac{45,000}{12}$$

$$12n = 45,000$$

18. A man and a boy can do a piece of work in 36 days. If the man works alone for last 10 days, the work is completed in 40 days. The boy alone can do the whole work in

- (A) 70 days
(B) 80 days
(C) 90 days
(D) 100 days

$$\frac{45000}{12} = 3$$

$$12 \overline{) 45,000}$$

$$\underline{36}$$

$SP \frac{225}{2} \dots 100$
 $100 \times \frac{2}{225}$
 10000
 8000
 7600
 400
 $CDW-(C)10/15$

19. An article was sold for Rs. 9,000 at a profit of $12\frac{1}{2}\%$. Had it been sold for Rs. 7600 the result would be

- (A) 4% profit
- (B) 4% loss
- (C) 5% profit

$\sqrt{(D) 5\% \text{ loss}}$
 $7600 - 100$

$100 \times \frac{25}{2}$
 125
 100
 25
 2

20. A and B enter into partnership with Rs. 30,000 and Rs. 50,000 respectively. After 6 months A puts Rs. 40,000 more but B withdraws Rs. 10,000. If the profit in one year is Rs. 6175 profit of A is

- (A) Rs. 3000
- (B) 3150
- (C) 3200
- (D) 3250

$30,000 \times 15,000$
 $30,000 \times 6 + 40,000$
 $50,000 \times 6 - 10,000$
 $19,000 \times 6 + 40,000$
 $30,000 - 10,000$

21. The ratio in which two types of tea one Rs. 300 per kg and other Rs. 175 per kg be mixed and sold for Rs. 250 per kg to make a profit of 25% is

- (A) 1:2
- (B) 1:4
- (C) 2:3
- (D) 2:5

$11:22,000$
 $10:20,000$
 $11:10$
 $25 + 100$
 $25 + 200$
 2
 6175
 11
 21

22. When a stove is sold for Rs. 423 there is a loss of 6%. To make a profit of 8% sale price of the stove will be

- (A) Rs. 482
- (B) Rs. 484
- (C) Rs. 486
- (D) Rs. 488

$7400 - 400$
 $100 - \frac{400}{7400} \times 100$
 7400

$SP 8000$
 $CP 100$
 $Loss 7600$
 7600
 8000×100

23. Purchasing 8 fruits in Rs. 6 if 6 fruits are sold in Rs. 8 profit will be

- (A) $67\frac{4}{5}\%$
- (B) $69\frac{5}{8}\%$
- (C) $72\frac{3}{7}\%$
- (D) $77\frac{7}{9}\%$

$8000 - 400$
 $100 - \frac{400}{8000} \times 100$
 $SP 100$
 $CP = 0$
 $SP 96$
 $CP = 100$
 423
 50
 100×423
 94
 $94 - 47 = 450$

24. If 12 men can do a work in 30 days working 9 hours a day then number of men who can do 10 times of the work in 24 days working 5 hours a day is

- (A) 180
- (B) 270
- (C) 330
- (D) 360

$100 - 450$
 $100 - 108$
 $450 - 108$
 2
 21
 6175
 42
 109
 70
 85
 $= 486$

for (arr) n (arr)

$$n + n + n + n = 7$$

CDW-(C)10/15

D-6

25. A man divided Rs. 75,000 among his 4 sons and 3 daughters. So that each son got as much as three daughters together got. Each son got

- (A) Rs. 7,500
- (B) Rs. 10,000
- (C) Rs. 12,500
- (D) Rs. 15,000

$$5n = 75,000$$

$$\therefore n = \frac{75,000}{5} = 15,000$$

26. The value of $999\frac{995}{999} \times 999$ is

- (A) 998988
- (B) 998992
- (C) 998996
- (D) 998998

27. Sum of $1\frac{3}{5}$ and $2\frac{3}{10}$ is m times the difference

between $\frac{3}{4}$ and $\frac{1}{10}$. The value of m is

- (A) 6
- (B) 7
- (C) 8
- (D) 9

$$\frac{3}{4} - \frac{1}{10} = \frac{15-2}{20} = \frac{13}{20}$$

$$\frac{13}{20} \times m = \frac{8}{5} + \frac{23}{10} = \frac{16+23}{10} = \frac{39}{10}$$

$$\frac{13}{20} m = \frac{39}{10} \Rightarrow m = \frac{39}{10} \times \frac{20}{13} = 6$$

$$\therefore m = \frac{39}{10} \times \frac{20}{13} = 6$$

28. Simplest value of $125\frac{11}{125} - 25\frac{7}{75}$ is

- (A) $100\frac{4}{375}$
- (B) $100\frac{2}{375}$
- (C) $99\frac{371}{375}$
- (D) $99\frac{373}{375}$

$$125\frac{11}{125} - 25\frac{7}{75}$$

$$= 125 + \frac{11}{125} - 25 - \frac{7}{75}$$

$$= 100 + \frac{11}{125} - \frac{7}{75}$$

$$= 100 + \frac{11}{125} - \frac{7 \times 4}{75 \times 4} = 100 + \frac{11}{125} - \frac{28}{375}$$

$$= 100 + \frac{11 \times 3}{125 \times 3} - \frac{28}{375} = 100 + \frac{33}{375} - \frac{28}{375}$$

$$= 100 + \frac{5}{375} = 100 + \frac{1}{75} = 100\frac{1}{75}$$

29. The least number of five digits which is a multiple of 319 is

- (A) 10,111
- (B) 10,208
- (C) 10,319
- (D) 10,357

$$319 \overline{) 10000}$$

$$\underline{957}$$

$$430$$

30. A man purchased an article. He then sold the article with Rs. 96 and made a profit. If the percentage of profit is as much as cost price, Cost price of the article is

- (A) Rs. 60
- (B) Rs. 50
- (C) Rs. 40
- (D) Rs. 30

31. A man drew Rs. 590 from a bank. He got 5 rupees notes and 10 rupees notes. Total number of notes was 70. Number of 10 rupees notes was

- (A) 40
(B) 44
(C) 48
(D) 52

32. If $A:B = B:C = C:D = 2:3$ then $A : B : C : D$ is

- (A) 6 : 9 : 12 : 18
~~(B) 8 : 12 : 18 : 27~~
(C) 10 : 15 : 16 : 24
(D) 12 : 18 : 27 : 36
- $A : B = 2 : 3$
 $B : C = 2 : 3$
 $C : D = 2 : 3$
 $A : B : C = 2 : 3 : 4.5$
 $B : C = 2 : 3 = 4 : 6$
 $A : B : C : D = 2 : 3 : 4.5 : 6.75$

33. Greatest of $(0.2)^2$, $\frac{1}{100}$, $(0.01)^{\frac{1}{2}}$, $(0.008)^{\frac{1}{3}}$ is

- (A) $(0.2)^2$
(B) $(0.008)^{\frac{1}{3}}$
(C) $(0.01)^{\frac{1}{2}}$
(D) $\frac{1}{100}$
- $A : B : C = 4 : 6 : 9$
 $A : B = 4 : 6 = 8 : 12$
 $B : C = 6 : 9 = 12 : 18$
 $C : D = 2 : 3 = 18 : 27$
 $8 : 12 : 18 : 27$

34. If the average of first 21 natural numbers is 11, average of first 20 natural numbers will be

- (A) 9
(B) 9.5
(C) 10
~~(D) 10.5~~

35. In an examination pass mark is 30%. A student gets 240 marks and comes to know that he would have been passed if he got 30 marks more. Full marks in the examination was

- (A) 600
(B) 800
~~(C) 900~~
(D) 100

$$30\% = 270$$

$$= 100\% = \frac{270}{30} \times 100$$

36. If the ratio of principal and amount after 5 years be 4:5, rate of interest per annum will be

- (A) 4%
(B) 5%
(C) 6%
(D) 8%

$$4P \rightarrow 1P \text{ I.V.}$$

$$\therefore 100 \rightarrow \frac{P}{4P} \times 100$$

37. Out of 11 numbers average of first 6 numbers is 8.5 and the average of last six numbers is 6.5. If the average of 11 numbers is 8, the sixth number is

(A) 1

(B) 2

(C) 3

(D) 4

$$\begin{array}{r} 8.5 \\ \times 6 \\ \hline 51.0 \end{array}$$

$$\begin{array}{r} 6.5 \\ \times 6 \\ \hline 39.0 \end{array}$$

$$\begin{array}{r} 51.0 \\ + 39.0 \\ \hline 90.0 \end{array}$$

$$\begin{array}{r} 90.0 \\ \div 11 \\ \hline 8.18 \end{array}$$

38. Average of five consecutive Odd numbers is 15. The least number is

(A) 11

(B) 13

(C) 15

(D) 17

39. Sum of money which amounts Rs. 13,310 for 3 years at the rate of 10% compound interest is

(A) Rs. 9,000

(B) Rs. 9,500

(C) Rs. 10,000

(D) Rs. 10,500

40. In a mixture ratio of first and second liquid is 2:3 and in another mixture ratio of those two liquids is 5:4. Ratio in which the two mixtures be mixed so that quantity of two liquids in the new mixture be equal is

(A) 2:5

(B) 3:7

(C) 5:9

(D) 9:11

41. A man worked for 4 days, a woman for 6 days and a boy for 5 days to finish a certain work and they received altogether Rs. 660 as their wages. If their daily work be in the

proportion $\frac{1}{3} : \frac{1}{4} : \frac{1}{6}$ wages received by the boy was

(A) Rs. 100

(B) Rs. 120

(C) Rs. 135

(D) Rs. 150

$$\frac{1}{3} \times 4 \quad \frac{1}{6} \times 5$$

$$\frac{1}{4} \times 6$$

$$\frac{1}{3} + \frac{1}{4} + \frac{1}{6}$$

$$= \frac{4+3+2}{12}$$

$$660 \times \frac{1}{12}$$

$$\frac{4}{3} : \frac{6}{4} : \frac{5}{6}$$

$$= \frac{16 : 18 : 10}{12}$$

42. A starts a business at the beginning of the year with a capital Rs. 9,000. After 3 months B joined the business with a capital Rs. 12,000. If the profit at the end of 2 years be Rs. 9620 difference between the profit of A and B is

- (A) Rs. 740
- (B) Rs. 750
- (C) Rs. 760
- (D) Rs. 770

43. A clock takes 3 seconds to strike the hour of 3 O'clock. To strike 9 O'clock it will take

- (A) 3 secs
- (B) 6 secs
- (C) 9 secs
- (D) 12 secs

$$\frac{9000 \times 12}{12,000 \times 9} = \frac{12000 \times 9}{12,000 \times 9}$$

$$\frac{9000 \times 12}{12,000 \times 9} = \frac{108,000}{108,000} = 1$$

$$\frac{9000 \times 24}{12,000 \times 21} = \frac{216}{252} = \frac{6}{7}$$

$$\frac{9620}{2} = 4810$$

44. A cup contains 3 parts of milk and 1 part of water. Some part of the mixture is drawn off and water substituted so that the resulting mixture turned into half milk and half water. Part of the mixture drawn off was

- (A) $\frac{1}{4}$
- (B) $\frac{1}{3}$
- (C) $\frac{1}{2}$
- (D) $\frac{2}{3}$

45. A car goes from A to B at a speed 36 Km/hr and returns from B to A at a speed 45 Km/hr. Average speed of the car during the whole Journey is

- (A) 40.5 km/hr
- (B) 40 km/hr
- (C) 35 km/hr
- (D) 30 km/hr.

$$\frac{36 + 45}{2} = 40.5$$

$$\frac{5180}{4440} = \frac{81}{2} = 40.5$$

$$\frac{740}{6} = \frac{4440}{2} = 740$$

$$\frac{740}{13} = 56.92$$

$$13 \overline{) 9620} \\ \underline{91} \\ 52$$

$$\frac{740}{6} = 123.33$$

$$\frac{740}{7} = 105.71$$

$$\frac{5180}{2} = 2590$$

46. Successive commissions of 20%, 10% and 5% on an article is equivalent to the Commission

- (A) 31%
- (B) 31.6%
- (C) 32.5%
- (D) 35%

Handwritten calculations for Q46:

$$100 \times \frac{20}{100}$$

$$80 \times \frac{10}{100}$$

$$72 \times \frac{5}{100}$$

$$72 \times \frac{100}{100} = 72$$

$$72 \times \frac{100}{100} = 72$$

$$72 \times \frac{100}{100} = 72$$

47. Least of $\frac{1}{1}, \frac{2}{2}, \frac{3}{3}, \frac{4}{4}$ is

(A) $\frac{2}{3}$ $\frac{1}{2} \times \frac{2}{1} = \frac{1}{1}$

(B) $\frac{4}{5}$ $\frac{2}{3} \times \frac{5}{2} = \frac{5}{3}$

(C) $\frac{3}{4}$ $\frac{5}{4} \times \frac{4}{5} = \frac{4}{5}$

(D) $\frac{1}{2}$ $\frac{2}{3}, \frac{1}{4}, \frac{2}{5}$

$\frac{1}{4} \times 20 = 5$ $\frac{1}{5} \times 20 = 4$

48. Arrange in descending order : $2^{60}, 4^{36}, 3^{48}$

- (A) $3^{48} > 4^{36} > 2^{60}$
- (B) $4^{36} > 3^{48} > 2^{60}$
- (C) $4^{36} > 2^{60} > 3^{48}$
- (D) $3^{48} > 2^{60} > 4^{36}$

49. If $A:B = \frac{1}{2} : \frac{1}{3}$ and $B:C = \frac{1}{5} : \frac{1}{3}$, $A+B : B+C$ is

- (A) 15:16 $\left(\frac{1}{2} + \frac{1}{3}\right) \left(\frac{1}{5} + \frac{1}{3}\right)$
- (B) 15:17
- (C) 16:17 $\frac{3+2}{6} : \frac{3+5}{15}$
- (D) 16:19 $\frac{5}{6} : \frac{8}{15}$

50. Rs. 2610 is divided among A, B and C such that 0.5 of $A = 0.6$ of $B = 0.75$ of C . C gets

- (A) Rs. 1044
- (B) Rs. 1000
- (C) Rs. 870
- (D) Rs. 696

2

51. Find the largest natural number which exactly divides the product of any 4 consecutive natural numbers

- (A) 36
(B) 24
(C) 48
(D) 32

52. $\frac{\sqrt{0.01 + \sqrt{0.0064}}}{0.01 \times 0.3} = ?$

- (A) 1
(B) 10
(C) 1000
(D) 100

53. $\sqrt{2 + \sqrt{2 + \sqrt{2 + \dots \infty}}} = ?$

- (A) $\sqrt{2}$
(B) $2\sqrt{2}$
(C) 2
(D) $2 + \sqrt{2}$

54. $(243)^{\frac{3}{5}} = ?$

- (A) 27
(B) 8
(C) 64
(D) 125

55. If A's salary is 25% less than that of B, then how many per cent is B's salary more than that of A ?

- (A) $44\frac{1}{4}\%$
(B) $33\frac{1}{3}\%$
(C) $22\frac{1}{2}\%$
(D) $55\frac{1}{5}\%$

56. A train is moving with a speed of 180km/hr. Its speed is

- (A) 50 m/Sec
(B) 5 m/Sec
(C) 30 m/Sec
(D) 40 m/Sec

$$\begin{array}{r} 3600 \text{ --- } 180000 \\ \quad \quad \quad 30050 \\ \quad \quad \quad \underline{180000} \\ \quad \quad \quad \quad 3600 \\ \quad \quad \quad \quad \quad 6 \end{array}$$

57. Ram and Shyam together can finish a job in 8 days. Ram can do the same job on his own in 12 days. How long will Shayam take to do the job by himself ?
- (A) 16 days
(B) 24 days
(C) 20 days
(D) 30 days
58. A circle and a square have the same area. The ratio of the side of the square and the radius of the circle is
- (A) $1:\sqrt{\pi}$
(B) $\pi:1$
(C) $1:\pi$
(D) $\sqrt{\pi}:1$
59. Three numbers are in the ratio 3:4:5 . The sum of the largest and the smallest equals the sum of the third and 52 . The smallest number is
- (A) 20
(B) 27
(C) 39
(D) 52
60. If $ab = 36$, then which of the following is correct ?
- (A) $a:9 = 4:b$
(B) $9:a = 4:b$
(C) $a:18 = b:3$
(D) $a:6 = b:6$
61. A TV and a VCR together cost Rs. 35000. If TV is $1\frac{1}{2}$ times costlier than VCR, find the cost of VCR.
- (A) Rs. 13000
(B) Rs. 14000
(C) 15000
(D) 16000
62. 280 oranges are divided among 50 girls and boys so that each boy gets 5 oranges and each girl gets 7 oranges. How many girls are there ?
- (A) 14 girls
(B) 15 girls
(C) 16 girls
(D) 17 girls

63. If $\frac{4}{5}$ of an estate be worth Rs. 16800, then what is the value of $\frac{3}{7}$ of the estate ?
- (A) Rs. 6000
(B) Rs. 7000
(C) Rs. 8000
(D) Rs. 9000
64. $254 \times ? \times 8 = 95504$
- (A) 47
(B) 49
(C) 51
(D) 53
65. The H.C.F. of three numbers is 12. If they are in the ratio 1:2:3, then the numbers are
- (A) 6, 12, 18
(B) 10, 20, 30
(C) 12, 24, 36
(D) 24, 48, 72
66. If two numbers are in the ratio 5:7 and their L.C.M. is 315, then their product is
- (A) 2358
(B) 2385
(C) 2538
(D) 2835
67. The product of two Co-primes is 117. Their L.C.M. should be
- (A) 1
(B) 117
(C) equal to their H.C.F.
(D) Cannot be calculated
68. The number $(6n^2 + 6n)$ for natural number n is always divisible by
- (A) 6 only
(B) 12 only
(C) 6 and 12
(D) 18 only

69. If three-fifths of 60% of a number is 36, the number is
- (A) 100
(B) 80
(C) 75
(D) 90
70. The sum and product of two numbers are 12 and 35 respectively. The sum of their reciprocals is
- (A) $\frac{12}{35}$
(B) $\frac{1}{35}$
(C) $\frac{35}{8}$
(D) $\frac{7}{32}$
71. A period of 4 hrs. 30 min. is what percent of a day ?
- (A) 20%
(B) $16\frac{2}{3}\%$
(C) 19%
(D) $18\frac{3}{4}\%$
72. What percent is 150 ml of 3.5 litres ?
- (A) $3\frac{2}{7}\%$
(B) $4\frac{2}{7}\%$
(C) $5\frac{2}{7}\%$
(D) $6\frac{2}{7}\%$
73. Ram's age after 15 years will be 5 times his age 5 years back. What is the present age of Ram ?
- (A) 10 years
(B) 5 years
(C) 15 years
(D) 20 years
74. X is 36 years old and Y is 16 years. In how many years will X be twice as old as Y ?
- (A) 4 years
(B) 3 years
(C) 2 years
(D) 1 year

75. Ajay is as much younger to Vijay as he is older to Tarun. If the total of the ages of Vijay and Tarun 48 years, how old is Ajay.

- (A) 23 years
- (B) 21 years
- (C) 24 years
- (D) 18 years

76. A number is as much greater than 31 as is less than 55. The number is :

- (A) 47
- (B) 52
- (C) 39
- (D) 43

77. If the product of three consecutive integers is 120, then the sum of the integers is :

- (A) 9
- (B) 15
- (C) 12
- (D) 14

78. If the product of two numbers is 5 and one of the numbers is $\frac{3}{2}$, then the sum of the two numbers is

- (A) $4\frac{5}{6}$
- (B) $4\frac{2}{3}$
- (C) $4\frac{1}{3}$
- (D) $6\frac{1}{2}$

79. The average of two numbers is xy . If one number is x , the other number is

- (A) $\frac{y}{2}$
- (B) y
- (C) $(2xy - x)$
- (D) $x(y-1)$

80. The mean of five numbers is 18. If one number is excluded, their mean is 16. The excluded number is
- (A) 25
(B) 26
(C) 27
(D) 30
81. a, b, c, d, e are five consecutive odd numbers. Their average is
- (A) $5(a+4)$
(B) $\frac{abcde}{5}$
(C) $5(a+b+c+d+e)$
(D) None of the above
82. If $16a+16b = 48$, What is the average of a and b ?
- (A) 1.5
(B) 2.5
(C) 3
(D) None of the above
83. The smallest number of 4 digits, which is a perfect square, is
- (A) 1000
(B) 1016
(C) 1024
(D) 1036
84. The value of $\sqrt{5+\sqrt{11+\sqrt{19\sqrt{29+\sqrt{49}}}}}$ is
- (A) 5
(B) 7
(C) 3
(D) 9
85. The length of diagonal of a square is 8 cm. The length of the side of the square is
- (A) 2.8 cm
(B) 1.414 cm
(C) 2 CM
(D) 5.64 cm

86. $\sqrt{\sqrt{2500} + \sqrt{961}} = (?)^2$

- (A) 81
(B) 3
(C) 6561
(D) 9

87. $\frac{6}{50} = \frac{\sqrt{?}}{200}$

- (A) 8
(B) 576
(C) 49
(D) 24

88. Akbar weighs 15 kg more than Rahim. Their combined weight is 135 Kg. How much does Rahim weigh ?

- (A) 60 Kg
(B) 75 Kg
(C) 80 Kg
(D) None of the above

89. $\left(1 - \frac{1}{2}\right)\left(1 - \frac{1}{3}\right)\left(1 - \frac{1}{4}\right) \dots \left(1 - \frac{1}{n}\right) = ?$

- (A) $\frac{1}{n-1}$
(B) $\frac{n}{n-1}$
(C) $\frac{1}{n}$

(D) None of the above

90. $1 - \left[1 - \left\{1 - (1 - \overline{1-1})\right\}\right] = ?$

- (A) 1
(B) 2
(C) 3
(D) 0

91. If $\frac{1}{x} : \frac{1}{y} : \frac{1}{z} = 2 : 3 : 5$, then $x:y:z = ?$

- (A) 2:3:5
(B) 15:10:6
(C) 5:3:2
(D) 6:10:15

92. If $\frac{x}{5} = \frac{y}{8}$, then $(x+5) : (y+8) = ?$
- (A) 3:5
(B) 13:8
(C) 8:5
(D) 5:8
93. If $a:b = b:c$, then $a^4:b^4 = ?$
- (A) $b^2:ac$
(B) $a^2:c^2$
(C) $c^2:a^2$
(D) $ac:b^2$
94. If $a:b = c:d = e:f = 1:2$, then $(3a+5c+7e) : (3b+5d+7f) = ?$
- (A) 1:2
(B) 1:4
(C) 2:1
(D) 8:7
95. If $A : B : C = 2 : 3 : 4$, then $\frac{A}{B} : \frac{B}{C} : \frac{C}{A} = ?$
- (A) 8 : 9 : 16
(B) 8 : 9 : 12
(C) 8 : 9 : 24
(D) 4 : 9 : 16
96. Bananas are bought at 3 for Rs. 2 and sold at 2 for Rs. 3. Find the gain percent.
- (A) 110%
(B) 115%
(C) 120%
(D) 125%
97. If an article is sold at a gain of 5% instead of being sold at a loss of 5%, one gets Rs. 5 more. What is the cost price of the article ?
- (A) Rs. 50
(B) Rs. 110
(C) Rs. 105
(D) Rs. 100

98. A sold a watch to B at 20% gain and B sold it to C at a loss of 10%. If C bought the watch for Rs. 216, at what price did A purchase it ?

- (A) Rs. 216
- (B) Rs. 200
- (C) Rs. 250
- (D) Rs. 176

99. The price of petrol is increased by 25%. By how much percent a car owner should reduce his consumption of petrol so that the expenditure on petrol would not be increased?

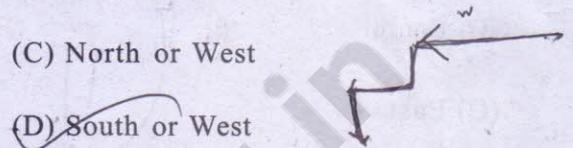
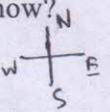
- (A) 25%
- (B) 50%
- (C) 20%
- (D) 30%

100. In an examination, 65% of the total examinees passed. If the number of failures is 420, the total number of examinees is :

- (A) 567
- (B) 693
- (C) 1200
- (D) 1000

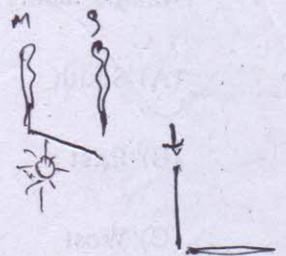
101. Anuj started walking positioning his back towards the sun. After sometime, he turned left, then turned right and then towards the left again. In which direction is he going now?

- (A) North or South
- (B) East or West
- (C) North or West
- (D) South or West



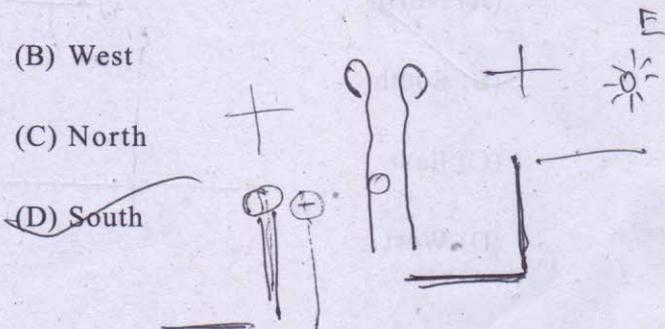
102. One evening before sunset two friends Sumit and Mohit were talking to each other face to face. If Mohit's shadow was exactly to his right side, which direction was Sumit facing?

- (A) North
- (B) South
- (C) West
- (D) None of the above



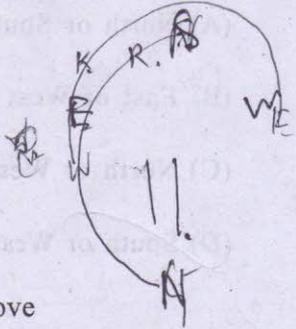
103. One morning after sunrise, Vikram and Shailesh were standing in a lawn with their backs towards each other. Vikram's shadow fell exactly towards left hand side. Which direction was Shailesh facing?

- (A) East
- (B) West
- (C) North
- (D) South



104. One morning after sunrise, Reeta and Kavita were talking to each other face to face at Tilak Square. If Kavita's shadow was exactly to the right of Reeta, which direction Kavita was facing ?

- (A) North
- (B) South
- (C) East
- (D) None of the above



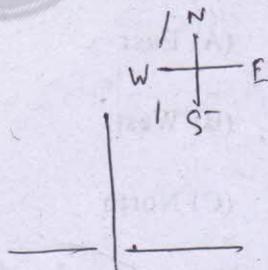
105. One morning after sunrise, Gopal was standing facing a pole. The shadow of the pole fell exactly to his right. Which direction was he facing ?

- (A) South
- (B) East
- (C) West
- (D) None of the above



106. A man is performing yoga with his head down and legs up. His face is towards the West. In which direction will his left hand be ?

- (A) North
- (B) South
- (C) East
- (D) West



107. To arrive at the answers to the above questions, which of the following statements can be dispensed with ?

- (A) None
- (B) (i) only
- (C) (ii) only
- (D) (iii) only

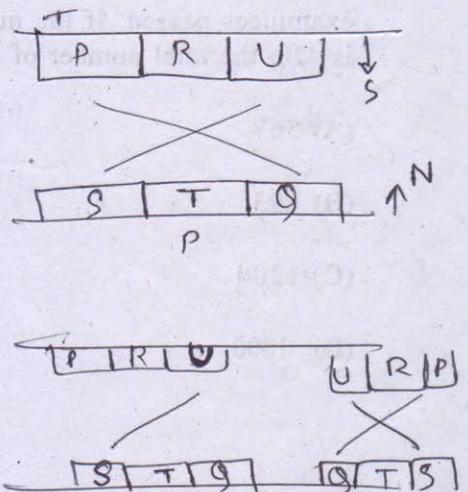
108. The flats of which of the other pairs than SU, are diagonally opposite to each other ?

- (A) QP
- (B) QR
- (C) PT
- (D) None of the above

Page-25
132 3733 600
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109. If the flats of T and P are interchanged, whose flat will be next to that of U ?

- (A) P
- (B) Q
- (C) R
- (D) T

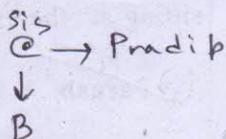


110. Whose flat is between Q and S ?

- (A) T
- (B) U
- (C) R
- (D) P

111. Pradip goes on a picnic trip and meets a boy B. B is the son of C and C is the sister of Pradip. How is Pradip related to B ?

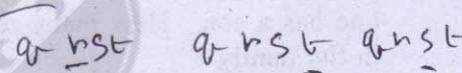
- (A) maternal uncle
- (B) nephew
- (C) uncle
- (D) brother



112. The missing alphabet in the series

q ps stqrs qst qr st is

- (A) str
- (B) rts
- (C) rst
- (D) srt



113. Identify the missing number in the series

fe, gd, hc, ib, ja

- (A) ja
- (B) aj
- (C) uv
- (D) vu

114. The missing alphabet in the series

a z bycx is

- (A) W
- (B) Y
- (C) Z
- (D) U

115. If clouds is to black, black is to rain, is to pink, pink is to air, air is lavender, where do birds fly in?

- (A) Pink
- (B) Lavender
- (C) Rain
- (D) Clouds

116. The missing alphabet in the series

a ^c abaca ^b ac ^a b is

- (A) cba
- (B) bca
- (C) bac
- (D) cab

117. Propositions : Gunen is a teacher
Teachers are gentle

Conclusion : So Gunen is gentle

- Options :
- (A) Inference is true
 - (B) Inference is false
 - (C) Inference is probably true
 - (D) Inference is irrelevant

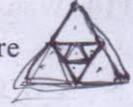
118. Propositions : All sweepers carry broom.

All brooms are long.

Conclusion : So all sweepers carry long brooms.

- Options :
- (A) Inference is true
 - (B) Inference is false
 - (C) Inference is probably true
 - (D) Inference is neither true nor false

119. The number of triangles in the figure is



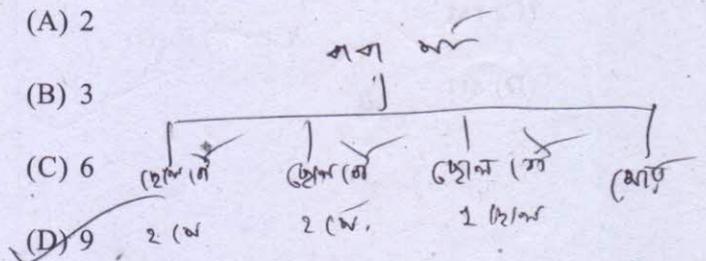
- (A) 9
- (B) 8
- (C) 10
- (D) 6

120. Five boys are sitting in a row. Kalol is sitting between Piyush and Paresh, while Gogol is sitting between Roni and Piyush. Who is sitting at the extreme right of Gogol ?

- Options :
- (A) Paresh
 - (B) Kalol
 - (C) Piyush *Roni go, Piyush ka Paresh*
 - (D) Roni

121. In a joint family, there are father, mother, 3 married sons and one unmarried daughter. Of the sons, two have 2 daughters each, and one has a son. How many members are there in the family ?

- (A) 2
- (B) 3
- (C) 6
- (D) 9



122. Statement : A teacher has important challenge

Conclusions :

- (A) to maintain discipline in the class
- (B) to make students do their homework
- (C) to prepare question papers
- (D) to make teaching-learning process enjoyable

123. The negation of the following statement :-

'All dogs bark' is -

- (A) There exists a dog which does not bark
- (B) If there is a dog, then it does bark
- (C) It is necessary to have all dogs bark
- (D) Those are not dogs who bark

124. Statements : Sutapa is a dancer. Dancers are young ladies.

Conclusions :

- (A) All young ladies are dancers
- (B) All dancers are young ladies
- (C) Sutapa is not young and hence not a dancer
- (D) Sutapa is a young lady dancer

125. Statements : Nurses serve their patients

Conclusions :

- (A) Those who serve their patients are nurses
- (B) Women generally serve their patients
- (C) Some women who are nurses serve their patients
- (D) Those who serve their patients are doctors

126. Statements : Winter months are cold.
December is a winter month.

Conclusions : I. December is cold
II. December may be cold.

Options

- (A) Only I follows
- (B) Only II follows
- (C) Both I and II follows
- (D) Neither I nor II follows

127. Propositions : I watch T.V. only if I feel lonely

I never feel lonely when I have my friend's company

Conclusions (A) If I feel lonely, I seek my friend's company

(B) If I never feel lonely, I watch T.V.

(C) If I do not feel lonely, I do not watch T.V.

(D) If I am not with my friend's company, then I watch T.V.

128. Which of the conclusion follows from the statement ?

Statement : Every library has books

conclusions: (A) Books are only in Library

(B) Libraries are meant for books only

(C) No Library is without books

(D) Some Libraries have books

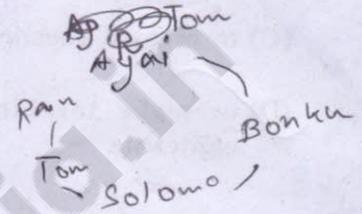
129. Five boys are so standing that they form a circle. Rahim is between Ajoy and Tom. Solomon is to the left of Banku and Ajoy is to the left of Solomon. Who is the right of Rahim ?

(A) Ajoy

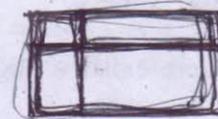
(B) Banku

(C) Tom

(D) Solomon



130. The number of rectangles in the figure



(A) 10

(B) 8

(C) 9

(D) 7

131. Which of the following combinations get South facing flats ?

(A) QTS

(B) UPT

(C) URP

(D) None of the above

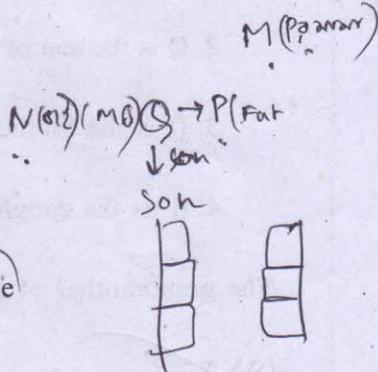
132. P is father of Q's son. M is the paternal uncle of P and N is the brother of Q. How N is related to M ?

(A) Brother

(B) Nephew

(C) Cousin

(D) None of these



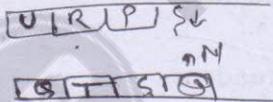
Direction (Questions 190 to 194) : Read the following information carefully and answer the questions given below it :

(i) Six flats on a floor in two rows facing North and South are allotted to P, Q, R, S, T and U.

(ii) Q gets a North facing flat and is not next to S

(iii) S and U get diagonally opposite flats.

(iv) R, next to U, get a South facing flat and T gets a North facing flat.



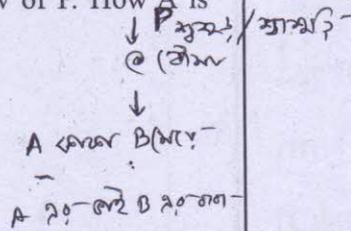
133. A is the uncle of B, who is the daughter of C and C is the daughter-in-law of P. How A is related to P ?

(A) Brother

(B) Son

(C) Son-in-law

(D) None of the above



134. (i) F is the brother of A,

(ii) C is the daughter of A,

(iii) K is the sister of F,

(iv) G is the brother of C

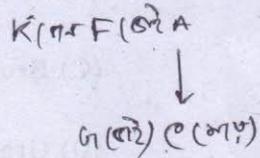
Who is the uncle of G ?

(A) A

(B) C

(C) F

(D) K



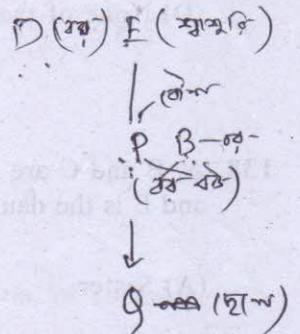
135. B is the husband of P. Q is the only grandson of E, who is wife of D and mother-in-law of P. How is B related to D ?

(A) Nephew

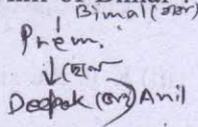
(B) Cousin

(C) Son-in-law

(D) Son



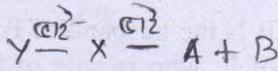
136. Deepak has a brother Anil, Deepak is the son of Prem. Bimal is Prem's father. In respect of relationship, what is Anil of Bimal?



- (A) Son
- (B) Grandson
- (C) Brother
- (D) Grandfather

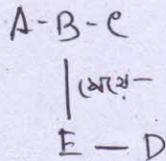
137. A and B are married couple. X and Y are brothers. X is the brother of A. How is Y to B?

- (A) Brother-in-law
- (B) Brother
- (C) Cousin
- (D) None of the above



138. A, B and C are sisters. D is the brother of E and E is the daughter of B. How is A to D?

- (A) Sister
- (B) Cousin
- (C) Niece
- (D) Aunt

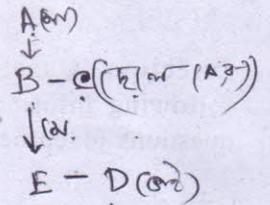


139. Given that -

1. A is the mother of B
2. C is the son of A
3. D is the brother of E
4. E is the daughter of B

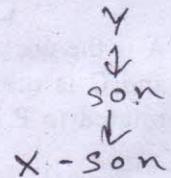
The grandmother of D is -

- (A) A
- (B) B
- (C) C
- (D) E



140. If X is brother of son of Y's son, then how is X related to Y?

- (A) Brother
- (B) Cousin
- (C) Grandson
- (D) Son



141. Five girls are sitting in a row. Ela is sitting between Alia and Camelia. Bijita is sitting between Camelia and Malini. Who is sitting in the middle ?

(A) Alia

(B) Bijita

(C) Camelia

(D) Malini

Alia Ela camelia Bijita Malini

142. P is the sister of Q. Q is the wife of R. R and S are brothers. What is P to R ?

(A) Sister-in-law

(B) Nephew

(C) Aunt

(D) Mother

P-Q + R-S

143. Zahid goes to a party hosted by his brother Aman. Aman has a daughter Saira. Saira is dancing with her brother Salman. What is Salman to Zahid ?

(A) Uncle

(B) Nephew

(C) Father

(D) Brother-in-law

Zahid + Aman

↓

Saira - Salman

144. If Hockey : India, then Baseball : ?

(A) Canada

(B) Mexico

(C) England

(D) America

145. If Kangaroo : Australia, then Eagle : ?

(A) Belgium

(B) Denmark

(C) Germany

(D) France

146. Chhou : Bihu : Bhangra : ?

(A) Gorba

(B) Kathakali

(C) Bharatnatyam

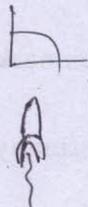
(D) Manipuri

147. Euro : Dollar : Yen : ?

- (A) Paisa
- (B) Note
- (C) Dinar
- (D) Currency

148. Choose the odd pair

- (A) Farmer-Field
- (B) Angle-Radian
- (C) Rocket-Fuel
- (D) Book-Copy



149. Choose the odd pair

- (A) Doctors-Epidemics
- (B) Reformers-Social Evils
- (C) Teachers-Education
- (D) Lawyers-Justice

150. Choose the odd pair

- (A) Mason-Wall
- (B) Choreographer-Ballet
- (C) Chef-cook
- (D) Cobbler-shoe

151. Choose the odd pair

- (A) Daring-Timid
- (B) Clear-Vague
- (C) Native-Alien
- (D) Beautiful-Pretty

152. Find the odd one from the rest

- (A) Byron
- (B) Bacon
- (C) Shelly
- (D) Keats

153. If Number : Mathematics, then Notes : ?

- (A) Currency
- (B) Language
- (C) Music
- (D) Doctor

154. If Heart : Blood, then Lung : ?

- (A) Breathing
- (B) Air
- (C) Bones
- (D) Purification

155. If Taunts : Unpleasantness, then Humour : ?

- (A) Wit
(B) Friendship
(C) Right
(D) Quarrel

156. If Methane : Marsh Gas, then Grapes : ?

- (A) Nitric Acid
(B) Citric Acid
(C) Hydrochloric Acid
(D) Acetic Acid

157. If Petrol : car, then Amonia Gas : ?

- (A) Bus
(B) Aeroplane
(C) Refrigerator
(D) Helicopter

158. If Bat : cricket, then Modem : ?

- (A) Type writer
(B) Computer
(C) Baseball
(D) Chess

159. If Manipuri is related to Dance, then Urdu is related by

- (A) Muslims
(B) Drama
(C) Poetry
(D) Language

160. If Book is to publisher, then Film is to

- (A) Writer
(B) Editor
(C) Director
(D) Producer

161. Choose the pair, which is different from the rest

(A) (3, 10)

$$\begin{array}{r} 10 \\ -3 \\ \hline 7 \end{array} \quad \begin{array}{r} 17 \\ -4 \\ \hline 13 \end{array} \quad \begin{array}{r} 27 \\ -5 \\ \hline 22 \end{array}$$

(B) (4, 17)

(C) (5, 27)

$$\begin{array}{r} 5 \\ -2 \\ \hline 3 \end{array}$$

(D) (2, 5)

162. The missing term in the following series 0, ____, 8, 27, 64, 125, is

(A) 2

(B) 1

(C) -1

(D) 0

163. The missing term in the following series 1, 5, 11, 19, 29, ____, 55 is

(A) 41

(B) 31

(C) 40

(D) 51

$$\begin{array}{r} 11 \\ -5 \\ \hline 6 \end{array} \quad \begin{array}{r} 19 \\ -11 \\ \hline 8 \end{array} \quad \begin{array}{r} 29 \\ -19 \\ \hline 10 \end{array} \quad \begin{array}{r} 29 \\ +12 \\ \hline 41 \end{array}$$

$$\begin{array}{r} 41 \\ -29 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 41 \\ -29 \\ \hline 12 \end{array}$$

164. The 6th term in the following series $ab^2+bc^2+cd^2+\dots$, is

(A) ef^2

(B) fe^2

(C) fg^2

(D) gf^2

$$f - g^2$$

165. The missing number in the following series 2, 3, 5, 7, ____, 13, 17, is

(A) 9

(B) 11

(C) 8

(D) 10

$$2, 3, 5, 7, 9, 11, 13, 17$$

$$+1, +2, +2, +2, +4, +4$$

$$\begin{array}{r} 9 \\ -2 \\ \hline 7 \end{array} \quad \begin{array}{r} 5 \\ -3 \\ \hline 2 \end{array} \quad \begin{array}{r} 7 \\ -5 \\ \hline 2 \end{array} \quad \begin{array}{r} 11 \\ -9 \\ \hline 2 \end{array} \quad \begin{array}{r} 13 \\ -11 \\ \hline 2 \end{array}$$

166. In a certain code language '1 2 3' means 'very beautiful lady', '3 5 6' 'fair young lady' and '5 8 3' means 'young bright lady'. The numeral stand for 'bright' is

(A) 8

(B) 6

(C) 1

(D) 3

very	Beautiful	Lady	1 2 3
fair	young	lady	3 5 6
young	bright	lady	5 8 3

167. If $a \oplus b = \text{l.c.m of } a \text{ and } b$, $a \otimes b = \text{g.c.m of } a \text{ and } b$, then $(12 \otimes 16) \oplus (24 \otimes 36)$ will be

(A) 11

(B) 10

(C) 14

(D) 12

168. The missing number in the following series 6, 5, 11, 16, 27, _____ 70, 113, is

- (A) 41 $-1 + 6 + 5 + 11$
 (B) 42
 (C) 43 $\begin{array}{r} 27 \\ 16 \\ \hline 43 \end{array}$
 (D) 53

169. The missing number in the following series 13, 16, 22, 34, 58, 106, 202, is

- (A) 50
 (B) 58 $\begin{array}{r} 34 \\ 24 \\ \hline 58 \end{array}$ $\begin{array}{r} 58 \\ 48 \\ \hline 106 \\ 96 \\ \hline 202 \end{array}$
 (C) 66
 (D) 72

170. If $a * b = b^a + 1$, then $2 * 3$ will be

- (A) 10
 (B) 9
 (C) 8
 (D) 0

171. Find the odd pair out

- (A) Mercury : Sun
 (B) Moon : Earth
 (C) Wheel : Axle
 (D) Star : Planet

172. Find the odd one from the rest

- (A) Touch
 (B) See
 (C) Hear
 (D) Eat

173. Find the odd one from the rest

- (A) Crow
 (B) Sparrow
 (C) Crane
 (D) Nightingale

174. Find the odd one from the rest

- (A) Conscience
 (B) Morality
 (C) Conduct
 (D) Weight

175. Find the odd one from the rest

- (A) Srilanka
 (B) Japan
 (C) Maldives
 (D) Tibet

B A C O N
2 2 3 15 24

4 2 18 9 14 7
D A R I N G

CDW-(C)10/15

D-32

176. Find the odd one from the rest

- (A) Sledge
- (B) Rickshaw
- (C) Tanga
- (D) Cart

G I R L
H J S M

177. BACON is coded as 2131514, hence DARING is coded as

- (A) 4116947
- (B) 41619147
- (C) 419146
- (D) 41189147

B O Y
Z P E

178. If BOY is coded as ZPC, then GIRL is coded as

- (A) HJSM
- (B) HJMS
- (C) MSJH
- (D) MSHJ

179. If Byron is 74, then Shelly is

- (A) 81
- (B) 80
- (C) 78
- (D) 79

7 9 6 5
2 25 18 15 14
? B Y R O N
9 2

180. MASON is as NBTPO, then WORLD is coded as

- (A) XPSME
- (B) XBSME
- (C) YQSME
- (D) EMSPX

X P S M E

1 2 3 4 5

181. If KEATS is coded as 12345, then TEASE is coded as

- (A) 22435
- (B) 43522
- (C) 24352
- (D) 42352

4 2 3 5 2
T E A S E

182. JORDAN is coded as SOCIAL, hence LIASON is coded as

- (A) LIASOL
- (B) LIAJON
- (C) NDAJOL
- (D) NAAJOL

J O R D O N
S O C I A L

B Y R O N
25 2 9 12 13
7 2 9 3 4 17 0

A B C D E F G H I J K L M ~~N~~
 P Q R S T U V W X Y Z
 26 25 24 23 22 21 20 19 18 17 16 15 14

183. Identify the missing term in the following series sre, rpb, qny, plv, _____

- (A) ojt
- (B) ojs
- (C) osj
- (D) otj

OJS

184. Identify the missing term in the following series bwt, cyw, _____, ecc, fef

- (A) daz
- (B) dxu
- (C) dee
- (D) dfd

daz

185. If A∩B is coded as 1 2 3, C∩A is 4 2 1, then ∩ is coded as _____

- (A) 2
- (B) 1
- (C) 4
- (D) None of the above

1 2 3
 A ∩ B
 4 2 1
 C ∩ A

186. If INDIA is coded as 914491, then JAPAN is coded as _____

- (A) 100111
- (B) 1011411
- (C) 10116119
- (D) 10116114

9 14 4 4 9 1
 I N D I A
 10 1 16 1 14
 J A P A N

187. The missing term in the following series

$$\frac{13}{22}, \frac{17}{26}, \frac{33}{42}, \frac{62}{71}, \frac{80}{?}$$

- (A) 29
- (B) 82
- (C) 89
- (D) 99

188. The next term of the following series

$$\frac{a}{b} \times 2, \frac{c}{d} \times 5, \frac{e}{f} \times 10, \frac{g}{h} \times 17, \text{ is}$$

- (A) $\frac{i}{j} \times 19$
- (B) $\frac{i}{j} \times 26$
- (C) $\frac{i}{j} \times 24$
- (D) $\frac{i}{j} \times 25$

$\frac{i}{j} \times 19$
 $\frac{i}{j} \times 19$

189. The 7th term of the following series

$$\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5} \text{ is } \frac{5}{6}, \frac{6}{7}, \frac{7}{8}$$

(A) $\frac{7}{8}$

(B) $\frac{8}{9}$

(C) $\frac{5}{7}$

(D) $\frac{6}{7}$

190. Choose the pair, which is different from the rest

(A) (7, 48)

(B) (6, 35)

(C) (9, 80)

(D) (5, 26)

191. If squint : eye , then squeeze : ?

(A) Tongue

(B) Cloth

(C) Throat

(D) Hand

192. Choose the odd pair

(A) Crime – Punishment

(B) Judgement – Advocacy

(C) Enterprise – Success

(D) Exercise – Health

193. Find the odd one from the rest

(A) Etiquette

(B) Manners

(C) Courtesy

(D) Kindness

194. Find the odd one from the rest

(A) Strawberry

(B) Blackberry

(C) Gooseberry

(D) Beriberi

195. Find the odd one from the rest

(A) Kitten

(B) Calf

(C) Foal

(D) Wolf

196. Find the odd one from the rest

- (A) Algebra
- (B) Arithmetic
- (C) Geometry
- (D) Mathematics

197. Find the odd one from the rest

- (A) Japan
- (B) China
- (C) Nepal
- (D) Egypt

198. Find the odd one from the rest

- (A) Newton
- (B) Einstein
- (C) Maxwell
- (D) Darwin

199. Find the odd one from the rest

- (A) Willow
- (B) Fir
- (C) Pine
- (D) Lily

200. Find the odd one from the rest

- (A) Reader's Digest
- (B) The Times of India
- (C) The Hindu
- (D) The Telegraph

CDW-(C)10/15

D-36

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