

Previous Paper (Solved)

### DMRC—Customer Relation Assistant (CRA) Online Exam, 2017\*

### PAPER-I

1. What was the top priority in the First Five Year Plan in India?

A. Ports

B. Steel plants

C. Agriculture

D. Industries

2. Where is Bandipur National Park located?

A. Bengaluru

B Kochi

C. Chennai D. Mysore

3. Which article of the Indian constitution provides the procedure for removing the Vice-President?

A Article 56

B. Article 60

C. Article 77

D. Article 67

4. Where is National Meat and Poultry Processing Center located in India?

A Mumbai

B. New Delhi

C. Kochi

D. Bengaluru

5. Who appoints the Municipal commissioners in India?

A. Governor

R President of India

C. State Government

D. Chief Justice of High Court

6. Under whose reign did the Khilafat movement start in India?

A. Lord Chelmsford B. Lord Curzon

C. Lord Dalhousie, D. Lord Mountbatten,

7. Who founded the Saluva dynasty?

A. Dindima

B. Abhinava Bhoja

C. Devaraya

D. Narsimha

8. The Judicial capital of Andaman & Nicobar Islands is:

A. Guwahati

B. Kolkata

C. Port Blair

D. Itanagar

9. Which Indian has won a Silver Medal at the Olympics in 2004?

A. Karnam Malleswari

B. Leander Paes

C. Rajyavardhan Singh Rathore

D. Vijender Singh

10. The national game of Bhutan is:

A. Archery

B. Badminton

C. Basketball

D. Football

11. Which ISRO spacecraft completed one year life around the Red planet in September 20152

A MAVEN

B. Araine-2

C. Mars Orbiter Mission

D. Chandrayaan

12. Who is the present Union Minister of Consumer Affairs in the cabinet of Narendra Modi?

A. Anant Kumar

B. Nitin Gadkari

C. Ramvilas Pashwan D. Venkajah Najdu

13. "Get Set Play" is the motto for which of the following games held in 2015?

A National Games of India

B. Asian Games

C. Indian Super League

D. Commonwealth Games

14. Virbhadra Singh is the present Chief Minister of which state?

A. Himachal Pradesh

B. Uttarakhand

C. Haryana

D. Punjab

<sup>\*</sup> Online Exam held on 22-02-2017



15.	Which	team	bagged	the	highest number of
	Medals	at the	e 35th N	atio	nal Games of India?

A. Harvana C Maharashtra B. Services D Kerala

16. Who is the present Governor of the state of Assam?

A Banwarilal Purchit

B. Jyoti Prasad Rajkhowa

C. Padmanabha Balakrishna Acharya

D. V. Shanmuganathan

17. What is the ranking of India in the Global Innovation Index (GII) in 2015?

A. 100th

B. 51st D. 72nd

C 81st

18. Which of the following research institutes in India has recently developed a medicine to treat Keratitis?

A. NIN

B. AIIMS

C. CCMB

D ICMR

19. How many countries participated at the Commonwealth Games in 2014?

A 81

B 61

C. 91

D. 71

20. The scheme launched by the Union Government of India to provide online LPG connections is:

A. BHIM

B. SAHAI

C. SARAL

D. DIGI DHAN

21. Which of the following monitors displays only one colour against a contrasting background usually black?

A. Grav scale

B. Monochrome

C. Colour

D. CRT

22. Which among the following technologies is used by cable television systems to send data over?

> A. DSL connection B. Coaxial cable C. Antennae D. ISP

23. Which of the following is not a service provided by the internet?

A. E-mail

B. Internet service providing

C. Instant messaging

D. Chat

24. The amount of data a disk of a computer can store is known as:

A. Usage

B. Thickness

C. Density

D. Storage

25. Which of the following networks includes many nodes and one or more servers which control user access to the network's resources?

A. Distributed

B. Peer-to-Peer

C. Server-based

D. Client/Server

26. Which of the following codes provides up to four bytes, i.e., 32 bits to represent each letter, number or symbol?

A ASCII C. Unicode B Extended ASCII

D. EBCDIC

27. Which of the following keys in Windows programs is used to cancel a command before it executes?

A. Alt

B. Ctrl

C. Shift

D. Esc.

28. Which of the following software license types allows the source code to be available to users in editable format? B. Commercial

A. Shareware D. Freeware

C. Open-source

29. Which of the following is an example of a single tasking operating system?

A. MS-DOS

B. MS -WINDOWS

C. LINUX

D. UNIX

30. Among IBM compatible computers, how many keys does the most common keyboard layout of IBM enhanced keyboard have?

A. 106 C. 100

B. 102 D. 101

31. Which Vitamin is chemically known as Ascorbic acid?

A. Vitamin K

B. Vitamin C.

C. Vitamin E.

D. Vitamin D.

32. Which substance among the following is not a polymer?

A. Polythene

B. Starch

C. Urea D. Cellulose

33.	Which one of the following compounds is used as washing soda?  A. Calcium Carbonate  B. Sodium Sulphate  C. Calcium Sulphate  D. Sodium Carbonate	40.	Mr. Shonail is known in his company for being Unethical in the communication. Which of these statements does not hold correct with Shonail's attitude referring to the above statement?  A. The advertisements he approves use visual images that conceal the truth
34.	The blood-sucking animals are called: A. Omnivorous B. Carnivorous C. Herbivorous D. Sanguivorous		B. He keeps the proprietary information confidential  C. He suppresses the information that the
35.	The substance which has less density in solid state than in liquid state is:  A. Turpentine  B. Benzene  C. Vegetable oil  D. Water	41.	public needs  D. He inflates claims about his team's commitment  Complete the following with the appropriate
36.	A conflict, on the other hand, can also become a/an  A. Opportunity B. Ego clash C. Controversy D. Misunderstanding		7 : 88 :: 6 : ? A. 34 B. 85 C. 37 D. 76
37.	Assertion (A): Trust Leads to high level of affective commitment  Reason (R): Affective commitment leads to Trust	42.	Lasya and Chinari are sisters, Bharath is Lasya's only son, Renuka is a daughter of Chinari, then who is Bharath to Renuka?  A. Cousin  B. Mother  C. Niece  D. Sister in law
	<ul> <li>A. Both A and R are false</li> <li>B. A is true and R is not a correct explanation for A</li> <li>C. A is true and R is the correct explanation for A</li> </ul>	43.	If "GYRATE" is coded as "TEGYRA", then what is the code for "GUZZLE"?  A. ZLEZUG  B. LEGZZU  C. LEGUZZ  D. GUZZEL
38.	D. Both A and R are true Which of these does not fall under ethical code? A. Respect for colleagues	44.	Pick the odd one out from the following: (64, 83), (36, 49), (4, 25), (9, 100), (121, 144), ?  A. (64, 83)  B. (9, 100)  C. (121, 144)  D. (4, 25)
20	B. Legality C. Competence D. Lifestyle A corporate company makes donations to	45.	If "HOLDER" is coded as "REDLOH", then what would be the code for "INVEST"?  A. TSEVNI B. TSENVI C. HSDIW D. INERU
39.	charitable institutions, builds recreational facilities for employees and their families, supports educational institutions, art and other activities. In CSR, this dimension is known as	46.	Rashmi is Shran's wife. Shanmukh is Shran's only son. Chandu is Shanmukh's only sister, then who is Chandu to Rashmi.  A. Mother  B. Daughter  C. Sister  D. Aunty
	<ul><li>A. Ethical responsibility</li><li>B. Philanthropic responsibility</li><li>C. Legal responsibility</li><li>D. Economic responsibility</li></ul>	47.	Complete the following: 34:67::42:? A. 11 B. 74 C. 91 D. 83

48. Pointing to a photograph Divya says "she is my husband's mother's only daughter", then who is she to Divva?

A Mother in law B. Sister in law

C. Daughter in law D. Sister

49. Complete the given Analogy:

Lemon: Vitamin C:: Green Leaves:

A Potassium C. Iron

B. Vitamin D D. Sodium

50. Solve the puzzle given below:



A. 0

C. 2

D. 5

51. Pick the odd one out from the following: 17, 13, 63, 23, 71

A. 71

B. 63

C. 13

D. 17

52. In a coded language "INTRODUCE" is coded as "873214695", then what would be the coded for "INDUCE"?

A. 873695 B 956378

C. 874695

D. 874996

53. If in a coded language "LAPSE" is "MBOTF", then what is "LANK"?

A. MBOL

B. MBLO

C. MNAL.

D. MSOA

54. Complete the following Analogy:

Yamini Krishnamurthy: Bharatanatyam:: Pandit Birju Maharaj: ?

A. Kathakali

B. Kathak

C. Bharatanatyam D. Kuchupudi

55. Insert the suitable answer in the place of the question mark.

7	?	26
4	8	14
3	6	12

A. 17

B. 14

C. 9

56. What best suits the question mark in the given triangle?



A. 70 C. 60 B. 49 D. 39

57. If in a coded language "HORSE" is 23154. then what is "ROSE"?

A. 3154

B. 1345

D. 2421 C. 1354

58. Complete the following analogy with a suitable option:

Curb: Spur:: Revere: ?

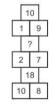
A. Pout

B Flout

C. Tout

D. Shout

59. Which number should replace the question mark?



A. 21 C. 9

B. 15 D. 18

60. If in a coded language "LACTEAL" is "MBDUFBM", then what is "LOCK"?

A. MPDL

B. MKWO

C. MCOL

D. LSOW

61. Look at the following series and find the next number:

7, 13, 25, 49, 97, \_ ?

A. 193

B. 210

C. 127 D. 182

62. Insert the suitable number in the place of the question mark.

24	87	63
6	40	34
?	39	32

A. 11 C. 1

B. 29 D. 7

63. Complete the following Analogy: 28:4::56:?

A. 29

B. 1

C. 11

D. 8

64. In a coded language "INDICATOR" is coded as 345321678, then what would be the code for "CARTOON"?

A 2168477 C. 3121211 B. 2186774

D 2168774

65. Complete the following:

36:6::24:? A 9

B 4

C. 3

D. 30

66. Look at the following series and find the next number:

6, 15, 42, 123, ?

A. 366

C. 246

B 12 D. 369

67. Which word will appear first in the dictionary?

A. Canvas

B. Catch

C. Catalogue D. Catapult

68. Look at the following series and find the next number:

39, 32 26, 21, 17,

A. 20

B. 28

C. 17

D. 14

69. Complete the following analogy:

Ostrich: Humming bird:: Femur:

A. Humerus

B. Ulna

C. Ossicles

D. Radius

70. Moksha is on 134° anticlock wise from "North". If she wants to move towards "East" in the same direction, how many degrees does she need to turn?

A. 135°

B. 180°

C. 270°

D. 225°

71. Roja is facing a lake in a park which is on the "Northwest" corner. She turned 270° in the clock wise direction to go to a stall over there. Which side is Roia probably facing now?

A. North C. South West

B South D. South East

**72.** In a code language, A = 4, B = 8, C = 12, D= 16, R = 72, T = 80, then what would be the code for "BIKE"?

A. 8, 40, 44, 10

B. 8, 36, 44, 20

C. 8, 36, 20, 44

D. 36, 40, 24, 90

73. Insert the suitable number in the place of the question mark.

16	32	2
?	24	6
31	93	3

B 6 D. 21

74. Complete the following:

36:58::19:\_\_\_\_? A. 1

C. 134

B. 41

D 34

75. Find the Odd one out:

A. Nanda Devi

B. Kangchenjunga

C. Jongsong Peak D Kirat Chuli

76. If in a coded language "KALI" is "MCNK", then what is "MILE"?

A LIKM

B ELIM

C. OKNG D. OONG

77. Insert the suitable number in the place of the question mark.



A. 35 C. 8

B 15 D. 19

78. Sai and Vansi are brothers, Rama and Deepa are sisters. Lakshmi and Kusuma are sisters. Vansi is Lakshmi's son. Rama is Kusuma's daughter. Then who is Sai to Deepa?

A. Grand mother C. Mother

B. Cousin D. Aunty

79. Insert the suitable answer in the place of the question mark.

22	11	2
36	9	4
28	?	7

A. 21 C 9

B. 3 D 4

80. Look at the following series and find the next number:

7, 8, 10, 14, ?

A. 23 C. 22

B. 14 D. 20

81. Find the average of the first 20 multiples of 7.

A. 72.5

B. 71.5

C. 73.5

D. 70.5

82. What per cent of ₹ 3050 is ₹ 1725.5?

A. 56%

B. 59.46%

C. 58.45%

D. 56.57%

83. A boy goes to his school from his house at a speed of 5 km/hr and returns at a speed of 3 km/hr. If he takes 6 hours in going and coming, the distance between his house and school is:

A. 11.25 km

B. 11.5 km

C. 11.75 km

D. 11 km

**84.** If  $\alpha$ ,  $\beta$  are the roots of  $ax^2 + bx + c = 0$ , then

A.  $\frac{3abc-b^2}{a^2c}$  B.  $\frac{b^2-2ac}{ac}$ 

C.  $\frac{b^2 - 2ac}{a^2}$  D.  $\frac{3abc - b^2}{a^2}$ 

85. In a college, the ratio of the number of boys to girls 8:5. If there are 160 girls, what is the total number of students in the college? A. 420 B. 416

C. 418

D 419

86. ₹ 1350 was divided among A, B, C so that A : B = 4 : 5 and B : C = 10 : 7, then C gets:

A. ₹ 380

B. ₹ 450

C. ₹ 350

D. ₹ 378

87. A man can complete a journey in 13 hours. He travels first one fourth of the journey at the rate of 24 kmph and remaining at the rate of 32 kmph. Find the total length of journey:

A. 384 km C. 394 km

B. 375 km D 374 km

88. Mr. Mittal purchased two steel factories, one in India and other one in Malaysia for a total of ₹ 72 crores. Later on he sold the Indian factory at 10% profit and the Malaysian factory at 24% profit. Thus he gained a total profit of 19%. The selling price of the Indian factory (in ₹) is:

A. 45.5 crores C. 52.5 crores B. 8.55 crores D. 52.2 crores

89. A sum of money lent at compound interest for 2 years at 20% per annum would fetch ₹ 482 more. If the interest was payable halfyearly than if it was payable annually. What

is the sum? A. ₹ 23000 C. ₹ 24000

B. ₹ 20000 D. ₹ 22000

90. The sum of two numbers is 1500 and their L.C.M. is 16379. The two numbers are:

A. 1469, 31

B. 1489, 11

C. 1423, 73

D. 1479, 21

91. Find the number of factors of 7056.

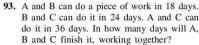
A. 35 C. 45 B. 40 D. 30

92. Find the sum of the first 10 natural numbers.

A. 45

B. 75

C. 65 D. 55



A. 16 days

B. 18 days

C. 12 days

D. 14 days

94. 16 men complete a work in 20 days. After they have worked for 12 days, 8 more men join them. How many days will they take to complete the remaining work?

A. 14/3 days

B. 8/3 days

C. 16/3 days

D. 6 days

95. Find the greatest number that will divide 23. 71 and 141 so as to leave the same remainder in each case:

A. 3 C. 6 B. 2 D 4

96. What is the sum of factors of 19600?

A. 5428

B. 54777

C. 33667

D. 44667

97. If  $\alpha$ ,  $\beta$  are the roots of  $3x^2 - 5x + 7 = 0$ , then  $\alpha^3 + \beta^3 =$ 

B.  $\frac{-90}{27}$ 

D.  $\frac{-190}{27}$ 

98. The ratio of the 7th to the 3rd terms of an A.P. is 12:5. What is the ratio of the 13th to 14th term?

A. 84:83

B. 90:97 C. 90: 27 D. 15:16

99. 125 oranges are bought at the rate of ₹ 500 and sold at the rate of ₹ 60 per dozen. What is the percentage of profit or loss?

A. 25% loss

B. 35% gain

C. 35% loss

D. 25% gain

D. ₹ 1.40

100. The simple interest on ₹ 10 for 4 months at the rate of 3 paise per rupee per month is: A. ₹ 1.20 B. ₹ 1.60

C. ₹ 1.80

101. A discount of 15% on one article is the same as discount of 20% on another article. What will be the cost of the two articles?

A. ₹ 80, ₹ 70

B. ₹ 90, ₹ 70

C. ₹ 80, ₹ 60 D. ₹ 90, ₹ 60 102. The L.C.M. of two numbers is 120. The numbers are in the ratio 4 : 5. The sum of the numbers is:

A. 54

B. 52 C. 56 D. 58

103. Two men start together to walk to a certain destination, one at 5 km/hr and another at 8 km/hr. The latter arrives one hour before the former. The distance is:

A. 13.33 km

B. 13 km

C. 13.75 km

D. 13.5 km

104. The average of all even numbers up to 86 is: A. 45 B. 46

C. 44

D. 42

105. X can do  $\frac{1}{2}$  of a work in 8 days. Y can do 30% of the same work in 50 days and Z can

> do \_ of the same work in 20 days. Who will complete the work last?

A. X and Y

DY

C. X

106.  $\sqrt{\frac{1+\sin\theta}{1-\sin\theta}}$  is equal to:

A.  $\sec \theta + \tan \theta$  B.  $\sec 2\theta + \tan 2\theta$ 

C.  $\sec 2\theta - \tan 2\theta$  D.  $\sec \theta - \tan \theta$ 

**107.** Two numbers are in the ratio 7: 9. If 11 is subtracted from each, the new numbers are in the ratio 3:1. What is the smaller number? A. 5.7 B. 7.7

C. 6.7 D 5

**108.** If the difference between the roots of  $x^2 - px$ + q = 0 is 2, then the relation between p and

- A.  $p^2 = (q + 1)$  B.  $p^2 = 4(q + 1)$ C. p = 4(q + 1) D.  $p = 4(q + 1)^2$
- 109. The average age of 25 students of a class is 20 years. Out of these, the average age of 10 students is 17 years and that of the other 14 students is 20 years. What is the age of the 25th student?

A. 65 years C. 50 years

B. 55 years D. 60 years

110. A can finish a work in 24 days and B can do the same work in 20 days. B worked for 15 days and left the job. In how many days can A alone finish the remaining work?

A. 10

B.  $8\frac{1}{2}$ 

C. 6

111. If A is in fourth quadrant and  $\cos A = \frac{5}{13}$ , then find the value of  $\frac{13 \sin A + 5 \sec A}{5 \tan A + 6 \csc A}$ 

A.  $\frac{2}{37}$ 

B.  $\frac{-3}{37}$ 

C.  $\frac{-4}{27}$ 

D.  $\frac{-2}{37}$ 

112. In my pocket I have ₹ 25 consisting of only the denominations of 20 paise and 50 paise. There are total 80 coins in my pocket. The number of coins of the denomination of 50 paise is:

A. 30

B. 20

C. 25

D. 15

113. The sum of three consecutive terms in a G.P. is 42 and their product is 512. Find the largest of these numbers:

> A. 32 C. 16

B. 8

D. 30

114. The effective annual rate of interest corresponding to a nominal rate of 12% per annum payable half yearly is:

A. 12%

B. 12.6%

C. 13.36%

D. 12.36%

115. A fruit seller sells mangoes at the rate of ₹ 12 per kg and thereby loses 25%. At what price per kg should he have sold then to make a profit of 10%?

A. ₹ 17.8

B. ₹ 17.50

C. ₹ 17 D. ₹ 17.60

116. Two objects are located on the same side of a tower. Observed from the top of the tower, their angles of depression are 45° and 60°. If the height of the tower is 150 m, the distance between the objects is:

> A. 90 m C. 63.4 m

B. 86.7 m D 7699 m

117. By selling 50 lemons for ₹ 60, a man loses 10%. How many should he sell for ₹ 20 to gain 20% in the transaction:

A. 13

B. 12 D. 12.5

C. 13.5

118. One of the two buses completes a journey of

340 km in  $8\frac{1}{2}$  hours and the other a journey of 500 km in 10 hours. What is the ratio of their average speeds?

A. 2:3

B. 4:5

D. 3:2 C. 5:4

119. The product of two numbers is 4096 and their H.C.F. is 16. How many such number pairs are possible?

A. 2

B. 4

C. 3 D. 1

120. The angle of elevation of a ladder leaning against a wall is 45° and the foot of the ladder is 8 m away from the wall. What is the length of the ladder?

> A. 12.31 m C. 12 m

B. 11.31 m D. 11 m

**ANSWERS** 

						86			
1	2	3	4	5	6	7	8	9	10
C	D	D	В	C	A	D	В	C	A
11	12	13	14	15	16	17	18	19	20
C	C	A	A	В	A	C	C	D	В



21	22	23	24	25	26	27	28	29	30
В	В	В	C	C	C	D	C	Α	C
31	32	33	34	35	36	37	38	39	40
В	C	D	D	D	Α	В	D	В	В
41	42	43	44	45	46	47	48	49	50
D	A	C	A	Α	В	D	В	C	В
51	52	53	54	55	56	57	58	59	60
В	C	A	В	В	A	C	В	C	A
61	62	63	64	65	66	67	68	69	70
Α	D	D	В	В	A	A	D	C	Α
71	72	73	74	75	76	77	78	79	80
C	В	C	В	A	C	В	В	D	C
81	82	83	84	85	86	87	88	89	90
C	D	A	A	В	D	A	D	В	В
91	92	93	94	95	96	97	98	99	100
C	D	A	C	$\mathbf{B}$	В	D	В	D	Α
101	102	103	104	105	106	107	108	109	110
C	A	A	C	D	A	В	В	C	C
111	112	113	114	115	116	117	118	119	120
D	A	A	D	D	C	D	В	D	В

### **EXPLANATORY ANSWERS**

41. 
$$7: 88: : 6: x$$
 $\Rightarrow 88 \times 6 = 7 \times x$ 
 $\Rightarrow 528 = 7x$ 
 $\Rightarrow x = \frac{528}{7} = 75.42$ 
 $\Rightarrow 76 \text{ (approx.)}$ 

**44.** (64, 83), (36, 49), (4, 25), (9, 100), (121, 144)

 $(6^2, 7^2), (2^2, 5^2), (3^2, 10^2), (11^2, 12^2)$ 

Clearly, odd one is (64, 83).

47. 34:67::42:x  $67 \times 42 = 2814$   $34 \times 83 = 2822 \text{ (approx.)}$ 

Hence, option (D) is correct.

Hence, 63 is odd one.

**51.** 17, 13, 63, 23, 71 17, 13, 23, 71 are prime numbers but 63 is composite number. 52. INTRODUCE is coded as

↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

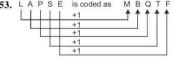
8 7 3 2 1 4 6 9 5

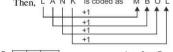
then, INDUCE is coded as

↓ ↓ ↓ ↓ ↓

8 7 4 6 9 5

53. LAPSE is coded as MBQTF





55.	7	?	26	
	4	8	14	8 + 6 = 14 $14 + 12 = 26$
	3	6	12	Hence 14 will come at the

Hence, 14 will come at the place of question mark.

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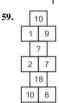


$$11 + 28 + 31 = 70$$

Hence, 70 will come at the place of question mark.

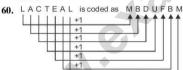
57. H O R S E is coded as  $\downarrow$   $\downarrow$   $\downarrow$   $\downarrow$   $\downarrow$ 

Then, R O S E is coded as  $\downarrow \downarrow \downarrow \downarrow \downarrow$ 

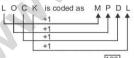


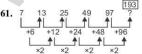
$$10 + 8 = 18$$
  
 $2 + 7 = 9$   
 $1 + 9 = 10$ 

Hence, 9 will come at the place of question mark.



Then,





Hence, the next number = 193.

### 62. 24 87 63 6 40 34 ? 39 32

Hence, 7 will come at the place of question mark.

**63.** 28 : 4 : : 56 : ?

$$4 \times 56 = 28 \times x$$

$$\Rightarrow \qquad x = \frac{4 \times 56}{28} = 8$$

Hence, 8 will come at the place of question mark.

64. INDICATOR is coded as

1 NDICATOR

1 NDICATOR

3 4 5 3 2 1 6 7 8

$$36 \times x = 6 \times 24$$

$$\Rightarrow x = \frac{6 \times 24}{36} = 4$$

Hence, 4 will come at the place of question mark

Hence, the next number of the series is 366.

Hence, the next number of the series is 14.

**72.** 
$$A = 4$$
,  $B = 8$ ,  $C = 12$ ,  $D = 16$ ,  $R = 72$ ,  $T = 80$ 

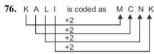
Hence, Code of B I K E will be  $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$   $8 \quad 36 \quad 44 \quad 20$ 

16	32	2
?	24	6
31	93	3

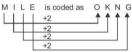
$$32 \div 2 = 16$$
  
 $24 \div 6 = 4$ 

$$93 \div 3 = 31$$

Hence, 4 will come at the place of question mark.



#### then.





$$8 \times 7 = 56$$

$$4 \times 7 = 28$$

$$3 \times 5 = 15$$

Hence, 15 will come at the place of question mark.

#### 79.

36	9	4
28	?	7

$$22 \div 2 = 11$$
  
 $36 \div 4 = 9$ 

$$28 \div 7 = 4$$

Hence, 4 will come at the place of question mark.

Hence, 22 will come at the place of question mark.

$$= 7 \times \frac{20 \times 21}{2} = 1470$$

Required average = 
$$\frac{1470}{20}$$
 = 73.5.

**82.** 
$$x\%$$
 of  $3050 = 1725.5$ 

$$\Rightarrow \frac{x}{100} \times 3050 = 1725.5$$

$$\Rightarrow 305x = 17255$$

$$\Rightarrow \qquad x = \frac{17255}{305} = \frac{3451}{61}$$

83. Let distance between school and house

$$= x \text{ kn}$$

$$\frac{x}{3} + \frac{x}{5} = 6$$

$$\Rightarrow \frac{5x+3x}{15} = 6$$

$$8x = 90$$

$$\Rightarrow \qquad x = \frac{90}{8} = \frac{45}{4} = 11.25$$

Hence, the distance between school and house = 11.25 km.

**84.**  $\therefore$   $\alpha$ ,  $\beta$  are the roots of the equation  $ax^2 + bx + c = 0$ 

$$\therefore \quad \alpha + \beta = -\frac{b}{a} \text{ and } \alpha\beta = \frac{c}{a}$$

$$\frac{\alpha^2}{\beta} + \frac{\beta^2}{\alpha} = \frac{\alpha^3 + \beta^3}{\alpha\beta}$$
$$= \frac{(\alpha + \beta)^3 - 3\alpha\beta(\alpha + \beta)}{\alpha\beta}$$

$$= \frac{\left(-\frac{b}{a}\right)^{3} - 3\frac{c}{a}\left(-\frac{b}{a}\right)}{\frac{c}{a}} = \frac{\frac{-b^{3}}{a^{3}} + \frac{3bc}{a^{2}}}{\frac{c}{a}}$$

$$= \left(\frac{-b^3 + 3abc}{a^3}\right) \times \frac{a}{c} = \frac{3abc - b^3}{a^2c}.$$

**85.** Let no. of boys = 
$$8x$$
 and no. of girls =  $5x$ 

$$\Rightarrow \qquad x = \frac{160}{5} = 32$$

.. No. of boys = 
$$32 \times 8 = 256$$

Hence, total no. of students

$$= 256 + 160 = 416.$$

**86.** : 
$$A : B = 4 : 5$$

$$B: C = 10:7$$

$$A:B:C = 4 \times 10:5 \times 10:5 \times 7$$
= 40:50:35
= 8:10:7

C's share = 
$$\frac{7}{25} \times 1350$$

87. Let total length of journey = x km

$$\frac{x}{4 \times 24} + \frac{3x}{4 \times 32} = 13$$

$$\Rightarrow \frac{x}{96} + \frac{3x}{128} = 13$$

$$\Rightarrow \frac{4x + 9x}{384} = 13$$

$$\Rightarrow 13x = 384 \times 13$$

$$\Rightarrow \qquad \qquad x = \frac{384 \times 13}{13} = 384$$

Hence, the total length of the journey = 384 km.

**90.** Let one number = x

∴ other number = 
$$1500 - x$$
  
 $x(1500 - x) = 16379$   
⇒  $1500x - x^2 = 16379$   
⇒  $x^2 - 1500x + 16379 = 0$   
⇒  $x^2 - 11x - 1489x + 16379 = 0$   
⇒  $x(x - 11) - 1489(x - 11) = 0$   
⇒  $(x - 11)(x - 1489) = 0$   
⇒  $x = 11$  or  $1489$ 

.. Numbers are 11 and 1489.

92. First ten natural numbers are 1, 2, 3, 4, 5, 6, Sum

$$= 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10$$
$$10 \times 11$$

$$=\frac{10\times11}{2}=55$$

Hence, sum of first ten natural numbers are 55.

**93.** (A + B)'s 1 day work = 
$$\frac{1}{18}$$

$$(B + C)'s 1 day work = \frac{1}{24}$$

$$(C + A)'s 1 day work = \frac{1}{36}$$

$$2(A + B + C)$$
's 1 day work

$$= \frac{1}{18} + \frac{1}{24} + \frac{1}{36}$$
$$= \frac{4+3+2}{72} = \frac{9}{72}$$

(A + B + C)'s 1 day work

$$=\frac{9}{72\times2}=\frac{1}{16}$$

Hence, (A + B + C) can do whole work in 16 days.

94.

$$16 + 8 = 24$$
 men  $20 - 12 = 8$  days

: 16 men can do a work in 8 days

.. 24 men can do the same work in

$$\frac{16 \times 8}{24} \text{ days} = \frac{16}{3} \text{ days}$$

**95.** 
$$71 - 23 = 48$$
  $141 - 71 = 70$ 

H.C.F. of 48 and 
$$70 = 2$$

Hence, required greatest number = 2.

97.  $\alpha$ ,  $\beta$  are the roots of the equation

$$3x^2 - 5x + 7 = 0$$

 $\alpha + \beta = \frac{-b}{2} = \frac{5}{2}$ 

13

$$\alpha \times \beta = \frac{c}{a} = \frac{7}{3}$$

$$\alpha^3 + \beta^3 = (\alpha + \beta)^3 - 3\alpha\beta \cdot (\alpha + \beta)$$

$$= \left(\frac{5}{3}\right)^3 - 3\left(\frac{7}{3}\right)\left(\frac{5}{3}\right)$$

$$= \frac{125}{27} - \frac{35}{3}$$

$$= \frac{125 - 315}{27}$$

$$= \frac{-190}{27}.$$

98. Let first term of A.P. = a and common difference = d

a + 6d = 12

$$a + 2d = 5$$

$$- - - -$$

$$4d = 7$$

$$d = \frac{7}{4}$$

$$a = 5 - 2d$$

$$= 5 - 2 \times \frac{7}{4} = \frac{6}{4} = \frac{3}{2}$$

$$\frac{a+12d}{a+13d} = \frac{\frac{3}{2}+12\times\frac{7}{4}}{\frac{3}{2}+13\times\frac{7}{4}}$$

$$=\frac{\frac{3}{2} + \frac{84}{4}}{\frac{3}{2} + \frac{91}{4}} = \frac{\frac{90}{4}}{\frac{97}{4}}$$

$$=\frac{90}{97}$$

 $\therefore$  a + 12d : a + 13d = 90 : 97 Hence, ratio of 13th to 14th term = 90 : 97.

101. 
$$15\% \text{ of } x = 20\% \text{ of } y$$

$$\Rightarrow \frac{15}{100}x = \frac{20}{100}y$$

$$\Rightarrow 3x = 4y$$

$$\Rightarrow x = \frac{4}{3}y \quad \text{[Put } y = 60\text{]}$$

$$x = \frac{4}{3} \times 60 = 80$$

∴ Cost of two articles are ₹ 80, ₹ 60.

**102.** Let Numbers are 4x and 5x

L.C.M. of 4x and 5x = 20xAccording to the question,

$$20x = 120$$

$$\Rightarrow$$
  $x = 6$ 

 $\therefore$  Numbers are 24 and 30 Sum of the numbers = 24 + 30 = 54.

103. Let the distance = x km

$$\frac{x}{5} - \frac{x}{8} = 1$$

$$\Rightarrow \frac{8x - 5x}{40} = 1$$

$$\Rightarrow 3x = 40$$

$$\Rightarrow x = \frac{40}{3} = 13.33$$

Hence, required distance = 13.33 km.

104. 
$$2 + 4 + 6 + 8 + \dots + 86$$
  
=  $2 [1 + 2 + 3 + 4 + \dots + 43]$   
=  $2 \left[ \frac{43 \times 44}{2} \right] = 43 \times 44 = 1872$ 

Required average = 
$$\frac{1872}{43}$$
 = 44.

105. X can do whole work in  $2 \times 8 = 16$  days

Y can do whole work = 
$$\frac{10 \times 50}{3}$$
 days  
=  $\frac{500}{3} = 166 \frac{2}{3}$  days

Z can do whole work =  $4 \times 20 = 80$  days Hence, Y will complete the work last.

106. 
$$\sqrt{\frac{1+\sin\theta}{1-\sin\theta}} \times \sqrt{\frac{1+\sin\theta}{1+\sin\theta}} = \frac{1+\sin\theta}{\cos\theta}$$
$$= \frac{1}{\cos\theta} + \frac{\sin\theta}{\cos\theta}$$
$$= \sec\theta + \tan\theta.$$

107. Let numbers are 7x and 9x

$$\frac{7x-11}{9x-11} = \frac{3}{1}$$

$$\Rightarrow 27x - 33 = 7x - 11$$

$$\Rightarrow 20x = 22 \Rightarrow x = \frac{11}{10} = 1.1$$

$$7x = 7 \times 1.1 = 7.7$$

Hence, smaller number = 7.7.

$$108. \ x^2 - px + d = 0$$

Let  $\alpha$ ,  $\beta$  are the roots of the equation

$$\begin{array}{ccc} \therefore & \alpha+\beta=p \text{ and } \alpha\times\beta=q \\ & \alpha-\beta=2 \text{ (given)} \\ \vdots & (\alpha-\beta)^2=(\alpha+\beta)^2-4\alpha\beta \\ \Rightarrow & (2)^2=p^2-4q \\ \Rightarrow & p^2=4+4d=4 \text{ } (1+q) \\ \text{Hence,} & p^2=4(q+1). \end{array}$$

109. Total age of 25 students

$$= 25 \times 20 = 500 \text{ years}$$
Total age of 10 students

 $= 10 \times 17 = 170 \text{ years}$ 

Total age of 14 students

$$= 14 \times 20 = 280$$
 years

:. Age of 25th student

$$= 500 - (170 + 280)$$
  
=  $500 - 450 = 50$  years

110. A's 1 day work = 
$$\frac{1}{24}$$

B's 1 day work = 
$$\frac{1}{20}$$

B's 15 days work = 
$$\frac{1}{20} \times 15 = \frac{3}{4}$$

Remaining work = 
$$1 - \frac{3}{4} = \frac{1}{4}$$

$$\frac{1}{24}$$
 A alone can do a work in 1 day

 $\frac{1}{4}$  A alone can do this work in

$$24 \times \frac{1}{4} = 6$$
 days.

111. : 
$$\cos A = \frac{5}{13} = \frac{b}{h}$$

$$\sin A = \frac{p}{h} = \frac{-12}{13}$$

[: A is in fourth quadrant]

$$\sec A = \frac{h}{b} = \frac{13}{5}$$
$$\tan A = \frac{p}{b} = \frac{-12}{5}$$

$$\operatorname{cosec} A = \frac{h}{n} = \frac{-13}{12}$$

$$\frac{13\sin A + 5\sec A}{5\tan A + 6\csc A} = \frac{13 \times \left(\frac{-12}{13}\right) + 5\left(\frac{13}{5}\right)}{5\left(\frac{-12}{5}\right) + 6\left(\frac{-13}{12}\right)}$$

$$= \frac{-12+13}{-12-\frac{13}{2}} = \frac{1}{\frac{-37}{2}}$$

$$=\frac{-2}{37}$$
.

**112.** 
$$20x + 50y = 2500$$

$$\Rightarrow \qquad 2x + 5y = 250 \qquad \dots(i)$$

$$x + y = 80$$

$$\Rightarrow 2x + 2y = 160 \qquad ...(ii)$$

$$2x + 5y = 250$$

$$2x + 5y = 250$$
$$2x + 2y = 160$$

$$3y = 90 \Rightarrow y = 30$$

Hence, number of 50 paise coins = 30.

113. a, ar and  $ar^2$  are in G.P.

$$a \times ar \times ar^2 = 512$$

$$\Rightarrow \qquad \qquad a^3r^3 = 512$$

$$\Rightarrow \qquad a^3r^3 = 512$$

$$\Rightarrow \qquad (ar)^3 = (8)^3$$

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⇒ 
$$ar = 8$$

⇒  $a = \frac{8}{r}$ 

Now,  $a + ar + ar^2 = 42$ 

⇒  $a + 8 + 8r = 42$ 

⇒  $\frac{8}{r} + 8r = 34$ 

⇒  $8r^2 + 8 = 34r$ 

⇒  $8r^2 - 34r + 8 = 0$ 

⇒  $8r^2 - 32r - 2r + 8 = 0$ 

⇒  $8r(r - 4) - 2(r - 4) = 0$ 

⇒  $(r - 4)(8r - 2) = 0$ 

⇒  $r = 4$  or  $r = \frac{1}{4}$ 

$$a = \frac{8}{4} = 2$$

$$ar^2 = 2(4)^2$$

$$= 2 \times 16 = 32$$

Hence, largest of these numbers = 32.

#### 115. Cost price of the mangoes per kg

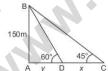
$$= 12 \times \frac{100}{75} = ₹ 16$$

Selling price of the mangoes per kg

$$= 16 \times \frac{110}{100} = \frac{176}{10} = 17.60$$

Hence, the fruit seller should sell the mangoes ₹ 17.60 per kg.

116.



In 
$$\triangle ABC$$
,  $\tan 45^\circ = \frac{150}{x+y}$ 

$$\Rightarrow 1 = \frac{150}{r + v}$$

$$\Rightarrow \qquad x + y = 150$$

In 
$$\triangle ABD$$
,  $\tan 60^\circ = \frac{150}{v}$ 

$$\Rightarrow \qquad \sqrt{3} = \frac{150}{v}$$

$$\Rightarrow \qquad y = \frac{150}{\sqrt{3}}$$

$$\Rightarrow \qquad y = \frac{150}{\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}} = 50\sqrt{3}$$

$$x = 150 - 50\sqrt{3}$$

$$= 150 - 50 \times 1.732$$

$$= 150 - 866 = 634$$

Hence, the distance between objects = 63.4 m.

118. Speed of first bus = 
$$\frac{340 \times 2}{17}$$
 = 40 km/hr

Speed of 2nd bus = 
$$\frac{500}{10}$$
 = 50 km/hr

Ratio of their average speeds

$$=\frac{40}{50}=4:5.$$

120. B

In 
$$\triangle$$
 ABC,  $\cos 45^\circ = \frac{8}{I}$ 

$$\Rightarrow \frac{1}{\sqrt{2}} = \frac{8}{4}$$

$$\Rightarrow l = 8\sqrt{2} \\
= 8 \times 1.414 = 11.312 \\
= 11.31$$

Hence, the length of the ladder = 11.31 m.

16



#### GENERAL ENGLISH

**Directions (Qs. No. 1-5):** Read the following passage carefully and answer the questions that follow:

All human bodies convey messages. A tattooed body is a peculiarly talkative one as it emanates a distinctive sign of expression. The selection of figures or designs for body tattooing is a significant one. Religious signs like the Godly figures, political ideologues including Che Guevara, movie stars. etc. stand witness to the old school of tattooing. On the other hand, the weird new figures used for tattooing give more opportunities to analyze the complexities of an innovative cultural construction. This context of tattoos – much like an individual's selection of dress, glitterati, hairstyle, etc. – operates as tools of new cultural constructions.

Unlike clothing, tattoos are perpetual and permanent. They are carved in the body forever with highly toxic chemical concoctions. One can change his sense of style, but his tattoo remains constant except he can add newer figures in the body, not in the already tattooed area. These facts lead the group - the tattooed bodies - to form a common platform of gathering with the ideology of the carnivalesque. The contemporary explosion which happened in the field of the social media and the vast scope offered in accessing both the personal and public spaces from anywhere in the world help in the explosion of these cultural equations. There may be Gods and angels in the making by whom this carnivalesque culture will bloom fully in the near future.

Tattoos, obviously, are attempts of culture constructions through the body carnivalesque. The news items which celebrate the people with 90% of body tattooing are steps to consummate the expectation and desire of a new culture. How the future and prospect of such an endeavor will turn out can be predicted only by the unpredictable moves of time.

- 1. Which of the following does not represent the old school of tattooing?
  - A. godly figures B. political leaders
  - C. alien figures D. movie icons
- 2. How does a tattooed body become peculiarly talkative?
  - talkative?

    A. by contributing a clear sign of evolution
    - B. by exposing a clear sign of evaluation
    - C. by producing a clear sign of expression
    - D. by creating a clear sign of emotion
- 3. Which word has been used in the second paragraph, meaning 'poisonous'?
  - A. Concoction
- B. Carnivalesque
- C. Toxic D. Perpetual
- 4. The new cultural equations are popularied
  - A. social media
  - B. personal interactions
  - C. public space
  - D. scientific explosions
- 5. By which method, do tattoos directly attempt to construct new cultures?
  - A. new gods and angels
  - B. body carnivalesque
  - C. news items
  - D. chemical concoctions
- 6. Which of the following is a Negative Adverb?
  - A. rather
- B. barely
- C. certainly D. quite
- 7. Correct the sentence:

They told me that they may have finished it

- A. They said to me that they may had finished that
- B. They told me that they might have finished that
- C. They told me that they might had finished that
- D. They said to me that they should have finished that



	1	7	(355) DMHC (CHA), 2017—
8.	How will you transform the sentence 'Mohan gave a clever reply' with an appropriate adverb?  A. Mohan replied cleverly  B. Mohan is clever  C. Mohan's replies are clever  D. Mohan replied with cleverness	16.	Change into Direct Speech:  The teacher instructed the class leader to tel the students that they should not use recepens.  A. The teacher said, "Class Leader, tell the students that they shall not use red pens."  B. The teacher said, "Class Leader, tell the
9.	Brussels enjoys the status of the cultural capital of Europe.  A. no longer		students that they cannot use red pens.'  C. The teacher instructed, "Class Leader, tel the students that they could not use red pens."
10.	Rewrite the sentence into passive voice: The jury is considering the case seriously. A. The case is considered seriously by the jury B. The case is being considered seriously by the jury C. The case was considered seriously by the jury D. The case is to be considered seriously by the jury		D. The teacher said, "You should not use recepens."  is an example of Adverb of Time A. Ever B. Everywhere C. Hence D. Certainly  Karthika exclaimed A. That would have been a very terrific kick B. That was a very terrific kick. C. That is a very terrific kick.
11.	Which of the following is in the passive form?  A. She has been accused of forgery.  B. She had accused of forgery  C. She accused of forgery  D. She has accused of forgery.		D. That had been a terrific kick.  Choose the meaning of the word 'affectation' A. Pretense B. Affection C. Pretension D. Discussion  Supply an appropriate preposition:
12.	Which of the following is a CORRECTLY ordered phrase?  A. A metallic little white cover  B. A little white metallic cover  C. A white little metallic cover  D. A white metallic little cover		They saw an aeroplane flying their cottage.  A. above B. on C. with D. at  Identify the Adverbial clause in the sentence
13.	Of in 'He is a man of word' is an example of Preposition of  A. place B. position C. reason D. manner		'The king and his retinue played the hunting game in the thick forest after midnight'.  A. after midnight  B. in the thick forest after midnight
14.	Jabir has M.A. in Communication from European university.  A. an, a B. a, a C. an, an D. a, an	22.	C. the king and his retinue D. in the thick forest Pick out the grammatically CORRECT sentence:
15.	Pick out the Possessive Pronoun from the following.  A. himself  B. either		<ul><li>A. The children were addicted at music</li><li>B. The children were addicted to music</li><li>C. The children were addicted on music</li></ul>

C. yours

D. The children were addicted with music.



23.	Which of the following is CORRECT?  A. Amir warned her not to repeat that again  B. Amir warned her do not repeat that again	33. Pick out the word opposite to A. persuasive B. proacti C. patriotic D. pessim	ve
	<ul><li>C. Amir warned her she did not repeat that again</li><li>D. Amir warned her she does not repeat that</li></ul>	34. Write the antonym for the word A. courageous B. manage C. corroborative D. malicio	'incorrigible' eable
24.	again that India will be self-reliant soon. A. It was expected B. It has expected	A. inactive B. relaxed C. vigorous D. idle	
25.	C. It will be expected D. It is expected is an example of a Proper Noun.	A. deprecate B. conside C. invest D. behead	
	A. India B. Nation C. Lake D. Globe Which of the following is related to	A. has B. were h C. have D. are have	
-0.	'hilarious'? A. Nonsense B. Merry C. Hellish D. Humbug	38. Pick out the word similar in 'compassionate':  A. stoic	meaning to
27.	'Inaudible' doesn't mean: A. loud B. quiet C. muffled D. faint	B. sympathetic C. stylistic D. systematic	P 1 . 1 .
28.	The king jumped his horse and rode A. to, of B. upon, of C. on, of D. upon, off	39. Which of the following is NOTA. Well B. Creatively C. Greedy D. Rarely	an adverb
29.	A 'worthy' man is:  A. Naughty  B. Nonsensical  C. Noble  D. Notorious	40. Rewrite the sentence into active She had been appointed by the the in-charge to look after the A. The company had appointed to t	company as issues.
	Write the synonym for the word 'grim'.  A. Sinister B. Sensuous C. Sensible D. Selective	in-charge to look after the B. The company appointed he charge to look after the iss C. The company was appointe	er as the in- ues. ed her as the
31.	Choose the opposite of the word 'tender': A. harsh B. warm C. sensitive D. gentle	in-charge to look after the D. The company has appointe in-charge to look after the	d her as the
32.	Pick out the grammatically CORRECT sentence:  A. Soman should have doing it, no doubt!  B. Soman have been done it, no doubt!	41. Rewrite the sentence: Did the cry scare the children? A. Had the children scared by B. Were the children scared by	the cry?

C. Were the children scary and crying?

D. Was the cry scared the children?

C. Soman should have done it, no doubt!

D. Soman should be done it, no doubt!



42.	Fill in the blanks with appropriate	50.	I could see a boat the bridge.
	prepositions:		A. onto B. in
	being a doctor, Anusha is good at		C. below D. into
	music and has been living a club.	51.	Let's go home, ?
	A. Besides, beside B. Besides, besides C. Beside, beside D. Beside, beside		A. will we?
	DONNEL LITTER MADE AND		B. shall we?
43.	The word 'tomorrow' changes to		C. wont' we?
	in Indirect Speech.  A. the next day B. the day to come	0000	D. won't you?
	C. that day  D. the future day	52.	Change to Indirect Speech:
44	He was the only son of the old woman who		"When will we get the trophy that we find
	fellthe river.		missing?"
	A. into B. of		A. When would they get the trophy that they
	C. from D. with		found missing
45	George for Dubai tomorrow evening.		B. When they would get the trophy that they find missing
	A. will have been leaving		C. When will they get the trophy that they
	B. had been leaving		found missing
	C. is leaving		D. When they would get the trophy that they
	D. has been leaving	. (	found missing
46.	"They were being disturbed by him."	53.	If 'Slow' is 'Fast', 'Vivid' is
	Choose the Active Voice of the sentence.		A. Vague B. Vain
	A. He was disturbing them	0	C. Vast D. Various
	B. He disturbs them	54.	Incompetent is related to Efficient in the same
	C. He disturbed them		way as Intolerance is to
	D. He was disturbed by them		A. narrowness B. endurance
47.	'Futile' can be replaced by:		C. unforgiving D. addiction
	A. fruitless B. fantastic	55.	'Abrupt' CANNOT be replaced by:
	C. frequent D. funny		A. sudden B. quick
48.	Change into Indirect Speech:		C. hasty D. moderate
	Preethi asked Smitha, "Why do you always	56.	A lion who is powerless is:
	talk to him like this?"		A. influential B. incapable
	Preethi asked Smitha why she had always talked to him like that.		C. impressive D. institutional
	B. Preethi asked Smitha why she always	57.	The passive expression of the sentence
	talked to him like that.		'Ashiyan won the match after a tough fight
	C. Preethi asked Smitha why had she always		is:
	talked to him like that		A. The match had won by Ashiyan after a tough fight
	D. Preethi asked Smitha that why did she		B. The match won by Ashiyan was after a
	always talk to him like that.		tough fight
49.	The members of the committee to		C. The match was won by Ashiyan after a
	the proposal.		tough fight
	A. was consented B. have consented		D. The match was being won by Ashiyar
	C. has consented D. had been consented		after a tough fight

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58. Which of the following is NOT a preposition?

A. across

B. very

C. in front of

D. beside

59. Fill in the blank by using an adverb from the given options:

The postman \_\_\_\_\_ argued that the address was wrong.

A. slow B. unbelievable C. repeated D. strongly

60. Alex asked the stranger whether \_\_\_\_\_

A. he could have his cell phone number

B. he can have his cell phone number

C. could he have his cell phone number

D. he will have his cell phone number

				ANSV	VERS				.0		
1	2	3	<b>4</b>	5	<b>6</b>	7	8	9	10		
C	C	C	A	B	B	B	A	A	B		
11	12	13	14	15	16	17	18	19	20		
A	B	D	A	C	B	A	B	C	A		
21	<b>22</b>	23	<b>24</b>	25	26	27	28	<b>29</b>	30		
B	B	A	D	A	B	A	D	C	A		
31	<b>32</b>	33	<b>34</b> B	35	36	37	38	<b>39</b>	<b>40</b>		
A	C	D		C	D	A	B	C	A		
<b>41</b>	42	43	<b>44</b>	45	46	<b>47</b>	<b>48</b>	<b>49</b>	50		
B	A	A	A	C	A	A	B	B	C		
51	<b>52</b>	<b>53</b>	<b>54</b>	55	56	57	58	59	60		
B	B	A	B	D	B	C	B	B	A		



Previous Paper (Solved)

### DMRC—Customer Relation Assistant (CRA) Exam, 2015

### ■ PAPER-I

- Recently four mathematicians were awarded fields medal, 2014. Who among the following is not the one who was awarded the fields medal 2014?
  - A. Manjul Bhargava
  - B. Martin Hairer
  - C. Maryam Mirzakhani
  - D. Richard Borcherds
- 2. What is 'ZMapp' which was in news recently:
  - A. Map of Mars taken by NASA
  - B. Experimental drug
  - C. A mapping software
  - D. Mathematical formula to solve geometry
- 3. Recently outstanding Parliamentarian awards were conferred by the President of India on 12th Aug, 2014. Name the Parliamentarian who is not amongst them?
  - A. Arun Jaitley
  - B. Sharad Yaday
  - C. Shusma Swarai
  - D. Karan Singh
- 4. This is an instrument that is a set of sensors and is capable of providing measurements of temperature, wind speed and direction, pressure, relative humidity and dust size & shape on Mars:
  - A. RIMFAX
- B. SHERLOC
- C. MEDA
- D. MOXIE
- 5. In which sport India bagged highest number of gold at 2014 Common Wealth Games, Glasgow?
  - A. Wrestling
- B. Shooting
- C. Weight lifting
- D. Badminton

- Recently which organisation issued draft guidelines for setting up and operating a trade receivables discounting system in order to facilitate financing to MSMEs (Micro Small and Medium Enterprise)
  - A. Reserve Bank of India
  - B. Security & Exchange Board of India
  - C. NSIC
  - D. MCX
- 7. The theme of 6th BRICS summit held in Frotaleza, Brazil recently was:
  - A. Whole world: One Family
  - B. Economic Growth: Happy Living
  - C. Exclusive Development; Resources Harnessing
  - D. Inclusive Growth; Sustainable solutions
- Union Ministry of Environment and Forests, notified "Bor wild life sanctuary" as tiger reserve. This tiger reserve is situated in the state of:
  - A. Rajasthan
- B. Madhya Pradesh
- C. Maharastra
- D. Guiarat
- 'Bluetooth' which is common in mobile phones gets its name from:
  - A. Danish 10th Century King
  - B. U.K. Software Company
  - C. Greek Goddess
  - D. Sony
- 10. Parliament has recently cleared a constitution amendment bill that facilitate setting up of a commission for appointment of judges. Before being sent it to the president for his assent, this bill needs to be ratified by:



- A. 75% of the state legislatures
- B. 50% of the state legislatures
- C. 66.67% of the state legislatures
- D. No ratification required by state legislatures
- INS KOLKATA (D63) recently Commissioned was constructed at:
  - A. Hoogly Dock and Port Engineers Ltd.
  - B. Cochin Shipyard Ltd.
  - C. Hindustan Shipyard Ltd.
  - D. Mazgaon Dock Limited
- 12. Which strait separates Europe from Africa?
  - A. Mallaica B. Gibralter
    - C. Berring D. Palk
- 13. The most common cause of death in road accident is due to:
  - A. Severe injury
  - B. Loss of oxygen supply caused by blocked airway
  - C. Bleeding (Severe hemorrhage)
  - D. None of these
- 14. Which of the following was described by Dr. B.R. Ambedkar the 'Hearth and Soul' of the constitution?
  - A. Right to equality
  - B. Preamble
  - C. Right to constitutional remedies
  - D. Right to freedom of Religion
- 15. The 'Pulitzer Prize' is associated with:
  - A. Environmental protections
  - B. Civil Aviation
  - C. Journalism
  - D. Health Research
- 16. The layer of the atmosphere which provides ideal flying conditions for large jet Aero plane:
  - A. Ionosphere
- B. Exosphere
- C. Troposphere
- D. Stratosphere
- 17. The concept of welfare state is included in the constitution of India in the:
  - A. Fundamental Rights
  - B. Fundamental Duties
  - C. Preamble
  - D. Directive Principles

- 18. Electrostatic precipitator is used to control?
  - A. Air Pollution B. Solid Waste
  - C. Noise Pollution D. Gas Pollution
- The 'Red-Ribbon' Express was launched in India on:
  - A. World Environment Day
  - B. World Hepatitis Day
  - C. World Diabetes Day
  - D. World AIDS Day
- 20. The first Rajiv Gandhi Khel Ratna award was given to:
  - A. Vishwanathan Anand
  - B. Geet Sethi
  - C. Karnam Malleswari
  - D. Leander Paes
- 21. Who is the author of the book 'Imaging India':
  - A Nandan Nilekani
  - B. Chetan Bhagat
  - C. Natwar Singh
  - D. Khuswant Singh
- 22. Panel of Vice Chairman consists of a penal of ............. members of Rajya Sabba nominated by the chairman. Anyone of whom may preside over the house in the absence of chairman and the deputy chairman when so requested by the chairman:
  - A. 3
- B. 4
- C. 6
- D. 7
- 23. The latitude difference between India & Pakistan for their Standard time is:
  - A. 7°
- B. 7.5° D. 8.5°
- C. 8°
- 24. Who among the following introduced the permanent Settlement of Bengal:
  - A. Warren Hastings
  - B. Lord Willam Bentinck
  - C. Lord Cornwallis
  - D. Lord Dalhousie
- 25. In case of reflection it is well known that when a mirror turned through an angle the reflected ray turns through:
  - A. Same angle B. Twice the angle
  - C. Thrice the angle D. Half the angle

26.	When	Alexander	invaded	India,	who	were
	the rul					

A. Shishunagas

B. Nandas

C. Maurvas

D. None of these

- 27. A stone lying at the bottom of a pond appears to be at a higher point than it actually is due to the phenomena of:
  - A. Diffraction of light
  - B. Scattering of light
  - C. Reflection of light
  - D. Refraction of light
- 28. Which of the following may be used by the Reserve Bank of India as a tool to draining out excess money from the system:
  - A. Increasing Cash Reserve Ratio
  - B. Increasing Reverse Repo rate
  - C. Reduction in Repo rate
  - D. Both (A) & (B)
- 29. Mullaperivar dam is in the state of ...... and there is a interstate dispute between ..... for this.
  - A. Kerala Kerala and Tamilnadu
  - B. Kerala, Kerala and Kamataka
  - C. Karnataka, Karnataka and Kerala
  - D. Tamilnadu, Tamilnadu and Kerala
- 30. Which Country has for the first time connected its European and Asian sides by opening a railway tunnel under Bosporus Strait that connects black sea to the sea of Marmara:

A. Turkey

B. Bulgaria

C. Georgia

D. Romania

- 31. A LAN card is also known as a: A. ASIC B. BUS
  - C. NIC

D. MMX

- 32. Auxiliary memory is also called:
  - A. Secondary memory
    - B. Primary memory
    - C. Cache memory
    - D. None of these
- 33. Which of the following in an internal command is DOS:
  - A. Sort

B. More

C. Ren

D. Tree

- 34. A UPS:
  - A. Increases the storage capacity of a computer system
  - B. Increases the process speed
  - C. Provides backup power in the event of a power cut
  - D. None of these
- 35. A group of 4 bits is called:
  - A. Byte

B Nibble

C. Word

D. None of these

- 36. Output at Break Even point is that output at which producer is able to:
  - A. Recover only operating cost
  - B. Earn a normal profit
  - C. Wipe out earlier losses
  - D. Recover total costs
- 37. Which of the following is the highest mountain peak in South India:
  - A Anai Mudi

B Doda Beta

C. Mahendragiri

- D. Dhupgarh
- 38. Which soil is more suitable for crops like cashew nut?
  - A Red laterite soil B Black soil
  - C Alluvial soil D Arid soil
- 39. Who has the right under the constitution to seek opinion of the Supreme Court on question of law?
  - A. President of India
  - B. Prime Minister of India
  - C. Speaker of the Lok sabha
  - D All of these
- 40. The capital of world youngest nation South Sudan is:
  - A. Juba

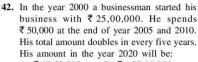
B Rumbek

D. Wau

C. Malakal

- 41. There are two examination halls—M and N. If 10 students are sent from M to N, the
  - number of students in both the halls is same. If 20 students are sent from N to M, the number of students in M become twice the number of students in N. The number of students in M and N respectively is:
  - B. 80, 60 A. 90, 70
  - C. 100, 80

D. 120, 80



A. ₹48,50,000

B. ₹1,30,00,000

D. None of these C. ₹ 1.94.00.000

43. If the duty on an article is reduced by 40% of its present rate, by how much percent must the consumption increase in order that the revenue remains unaltered?

A.  $60\frac{2}{3}\%$ 

B.  $64\frac{2}{2}\%$ 

C.  $66\frac{2}{3}\%$ 

D. None of these

44. An article cost ₹ 80 to the vendor. If he marks the article for 50% more than the cost price and sells it 25% less than the marked price. What is his gain percentage?

A. 25%

C.  $12\frac{1}{2}\%$  D.  $15\frac{1}{2}\%$ 

**45.**  $100 \times 10 - 100 + 2000 \div 100 = ?$ A. 840 B. 920

C. 760

D. None of these

46. Among the following numbers  $6\sqrt{12}$ ,  $3\sqrt{4}$ ,  $4\sqrt{5}$ ,  $\sqrt{3}$ , the least one is:

A.  $6\sqrt{12}$ 

B  $3\sqrt{4}$ 

47. An empty tank is connected with pipes A, B and C. A and B are inlet pipes and they fill the tank in 6 hours and 8 hours respectively, while C is an outlet pipe and it empties the completely filled tank in 5 hours. Find the time in which the tank will be completely filled if all the pipes are opened together.

A.  $10\frac{9}{11}$  hours B.  $9\frac{9}{11}$  hours

C.  $10\frac{10}{11}$  hours D.  $9\frac{10}{11}$  hours

48. Two vessels A and B contain acid and water mixed in the ratio 2:3 and 4:3. In what ratio must these mixtures be mixed to form a new mixture containing half acid and half water?

A. 7:5

B 5 · 7

C. 3:5

D. None of these

49. A person sold an article at 20% profit on the selling price. Afterwards, when the cost price reduced by 10%, then he also reduced the selling price by 10%. This percentage of profit on cost price will be:

A. 25%

B. 22%

C. 21.5%

D. 20%

50. If the radius of a right circular cylinder is decreased by 50% and its height is increased by 60%, its volume will be decreased by:

A. 30% C. 60%

B. 40% D. 70%

51. A pole 18 m high casts a shadow 9.6 m long. What is the distance of the top of the pole from the far end of the shadow?

A. 20.4 m

B. 20.5 m

C. 20.6 m

D. None of these

**52.** 24 men can complete a work in 16 days. 32 women can complete the same work in 24 days, 16 men and 16 women worked for 12 days. How many more men are required to complete the remaining work in 2 days?

A. 24

B. 36

C. 32

D. None of these

53. The areas of two circular fields are in the ratio 16: 49. If the radius of the latter is 14 m, then what is the radius of the former?

A. 10 m

B. 8 m

C. 12 m

D. 16 m

54. Two trains start simultaneously from Kanpur and Agra towards each other with speeds of 70 km/hr and 90 km/hr respectively. When they met each other it was observed that one of them had covered 350 km more than the other. Find distance between Kanpur and Agra?

A. 2400 km C. 2700 km

B. 2550 km D. 2800 km

55. The perimeter of a rhombus is 40 cm and the measure of an angle is 60°, then the area of it is:

A.  $100\sqrt{3}$  cm<sup>2</sup> B.  $75\sqrt{3}$  cm<sup>2</sup>

C.  $180\sqrt{3}$  cm<sup>2</sup> D.  $50\sqrt{3}$  cm<sup>2</sup>

56. The average age of 45 persons is decreased by 1/9 year when one of them having 60 years is replaced by a new comer. Then the age of the new comer is:

A. 48 years

A. 5% increase

B. 50 years

C. 55 years

D. 46 years

57. When the price of cloth was increased by 25%, then the quantity of cloth sold decreased by 20%. What was the effect on the gross receipt?

B. 8% increase

C. 20% decrease D. None of these

58. Pipe 'A' can fill a tank in 10 hours and pipe 'B' can fill the same tank in 12 hours. Both the pipes are opened to fill the tank and after 3 hours pipe 'A' is closed. Pipe 'B' will fill the remaining part of the tank in:

A. 5 hours 36 minutes B. 5 hours 24 minutes

C. 5 hours 39 minutes

D. 5 hours 48 minutes

59. Anil sells a table to Kamal at a profit of 10% and Kamal sells it to Rajat at a profit of 12%. If Rajat pays ₹ 246.40 for it, then how much had Anil paid for it?

A. ₹220

B. ₹215

C. ₹200 D ₹ 233

60. 10 sheep and 5 goats were bought for ₹ 6000. If the average price of a sheep is ₹ 450, find the average price of goat:

A. ₹370

B. ₹355

C. ₹325

D ₹300

61. Daisy purchased 6 mangoes, 10 oranges and 5 apples for a certain amount. With 40% less amount Anuj could purchase 3 mangoes, 5 oranges and 4 apples. What percentage of the total amount did Daisy spend on apples?

A. 25% B. 28%

C. 33.33% D. None of these

62. It takes 8 people working at equal rates to finish a work in 96 days. How long will 6 workers take for the same work?

A. 124 days

B. 125 days

C. 128 days D. 122 days

63. A bag contains rupee, 50 paise, 25 paise and 10 paise coins in the proportion 1:3:5:7. If the total amount is ₹ 22.25, find the number of coins of each kind a

A. ₹1, 5; 50 paise 25; 25 paise, 15: 10 paise, 25

B. ₹1, 5; 50 paise 15; 25 paise, 25; 10 paise, 35

C. ₹1, 5; 50 paise 25; 25 paise, 15; 10 paise, 35

D. ₹1, 5: 50 paise 25: 25 paise, 25: 10 paise, 25

**64.** If  $(9/7)^3 \times (49/81)^{2x-6} = (7/9)^9$ , then the value of x is:

A. 12

B. 6

C. 8

D. None of these

65. A bag contains 19 red balls, 37 blue balls and 27 green balls. If a ball is picked up from this bag at random, what is the probability of picking a blue ball?

A. 36/87

B. 37/83

C. 38/83 D. None of these

66. If the volume of a sphere is divided by its surface area, result obtained is 27 cm. The radius of the sphere is:

A. 81 cm

B. 72 cm

C. 48 cm

D. None of these

67. A number x is mistakenly divided by 10 instead of being multiplied by 10, what is the percentage error in the result?

A. 89%

B 99%

C 79%

D. None of these

68. In a class of 20 students in an examination in Mathematics 2 students scored 100 marks each. 3 got zero each and the average of the rest was 40. What is the average of the whole class?

A. 32 marks

C 48 marks

B. 40 marks

- D. None of these
- 69. Number of diagonals in a 30 sided convex polygon will be:

A. 405

B. 955

C. 818

D. 378

**70.** The value of  $\sqrt{a\sqrt{a\sqrt{a.....\infty}}}$  is:

A 1  $C_{\alpha}^2$ 

D. 00

71. Two perpendicular cross roads of equal width run through the middle of a rectangular field of length 80 meter and breadth 60 meter. If the area of the cross roads is 675 m<sup>2</sup>, what is the width of the road:

A. 6 meters

B. 5 meters

C 9 meters

D. None of these

72. A solid piece of iron is in the form of a cuboid of dimensions (49 cm × 33 cm × 24 cm) is melted and moulded to form a solid sphere. The radius of the sphere is:

A. 19 cm

B. 21 cm

C. 23 cm

D. 25 cm

73. If the price of oranges was less by 40%, one could buy 32 more for ₹120. The price presently is:

A. ₹3.00

B. ₹2.00

C. ₹ 1.50

D. ₹2.50

74. The hypotenuse of an isoceles right angled triangle is q. If we describe equilateral triangles (outwards) on all its 3 sides., then the total area of the re-entrant hexagon thus obtained is:

A.  $q^2(\sqrt{3}+2)$  B.  $\frac{q^2(2\sqrt{3}+1)}{4}$ 

D. None of these

75. If POR are three consecutive odd numbers and four times the first is 3 more than thrice the third, the third number is:

A. 15 C. 19 B. 17 D. None of these 76. 13 chairs and 5 tables were bought for ₹8280. If the average cost of the table will be ₹ 1227. what is the average cost of a chair? R ₹ 165

A ₹175 C. ₹2145

D. None of these

77. If by selling 110 apples, the cost price of 120 apples is realised. The gain % is?

A.  $11\frac{1}{9}\%$  B.  $9\frac{1}{9}\%$  C.  $10\frac{10}{11}\%$  D.  $9\frac{1}{11}\%$ 

78. Pujara has a certain average of runs for his 8 matches in Border Gayaskar Trophy. In the ninth match he scores 100 runs and thereby increases his average by 9 runs. His new average of runs is:

A. 20 B. 24

C. 28

D. 32

79. Simplify:

 $2^{65} \times 2^{70} - 2^{97} \times 2^{38}$ 

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

80. What value will you obtain if 25% of 2340 is subtracted from 4/9 of square of 36?

A. 9

B -9

C. 6

D. None of these

Directions (Q. No. 81 & 82): Study the following information and answer the given question.

Point N is 10 metres to the south of M. Point O is 3 metres to the east of N. Point P is 5 metres to the south of O. Point O is 6 metres to the west of P. Point R is 10 metres to the north of O. Point S is 6 metres to the east of R. Point T is 5 metres to the north of S

81. Which of the following represents the direction of point O with respect to point R?

A. South - West

B. South - East

C. North - East

D. North - West

82. How far and in which direction is point M from point T?

A. 3 metres - East

B 5 metres - Fast

C. 3 metres - West

D. 5 metres - West

Directions (O. No. 83 & 84): Kanti walks 20 metres north, she turns right and walks 30 m, then she turns right and walks 35 metres, then she turns left and walks 15 metres, then she turns left and walks 15 m. she again turns left and walks 15 metres.

83. How far Kanti is from her starting point?

A 40 metres

B. 45 metres

C 50 metres

D 25 metres

84. Which direction is Kanti facing now?

A East

B. North

C West

D South

Directions (O. No. 85 to 87): Two ants are climbing a slippery wall. At time=0, both are at the bottom of the wall. Ants A climbs at the rate of 3 inches a minute. Ants B climbs at the rate of 4 inches a minute. Due to the slippery wall, however, Ant A slips back 1 inch for every 2 inches climbed and Ant B 1.5 inches for every 2 inches. More over Ant A takes a rest of 1 minute after every 2 minutes and Ant B a rest of 1 minute after every 3 minutes. Assume that slipping occurs continuously when climbing.

85. At what height do the two ants meet each other:

A Do not meet

B. 3 inches

C. 5 inches

D 12 inches

86. What is the widest gap achieved between the ants, within the first 10 minutes:

A. 2 inches

B. 3 inches

C. 2.5 inches

D. 1.5 inches

87. What is the average speed of ant A for the first 9 minutes:

A. 1.75 inch/min.

B 1 inch/min

C. 0.75 inch/min.

D 2 inch/min

Directions (O. No. 88 & 89): Study the information below and select appropriate answers.

A four inch side cube is cut at each inch to form  $1'' \times 1'' \times 1''$  cubes. The 4" side cube is coloured blue on all surfaces.

88. How many cubes have exactly three surface coloured:

A. 4

B. 8

C 6

D NII.

89. How many cubes have no colours on any side:

A. 8

B 16

C 32

D 56

**90.** If A = 1, FAT = 27 then FAINT = ?

A. 44

B 42

C. 41

D 50

Directions (O. No. 91 & 92): The Venn diagram given below shows the estimated readership of 3 daily newspapers (H.T, TOI & Statesman) in Delhi. The total readership and advertising cost for each of these papers is as below:

Newspaper	Readership (Lakhs)	Advertising Cost (₹ per sq cm)
H.T.	8.7	6000
TOI	9.1	6500
Statesman	5.6	5000

The total population of the city is approximately 14 million. The common readership (in lakhs) indicated in the Venn diagram



8

**91.** The number of people (in lakhs) who read at least one newspaper is:

A. 4.7

B. 23.4

C. 17.4 D. None of these

**92.** The number of people (in lakhs) who read only one newspaper is:

A. 23.4 B. 17.4

C. 11.9

D. None of these

Directions (Q. No. 93 to 96): Ten persons, namely Amit, Bhargav, Charlie, Celina, Ehshan, Fatima, Gautam, Himesh, Indira and Jojo, go for a movie and they all sit in a single row of seats numbered 1 to 10. There are three couples in the group. Each couple has only one child. The child always sits next to its mother and a family always sits together. Celina, Fatima, Indira and Jojo are females while the others are males.

- Ehshan sits on seat number 6, which is immediately next to Charlie's mother's seat.
- Jojo sits on a seat whose number is both a perfect square and perfect cube.
- Himesh is Indira's father and they both sit on prime-numbered seats.
- 4. Amit the bachelor sits next to Bhargay.
- The children are Charlie, Indira and Ehshan.
- 93. Who is Charlie's mother?
  - A. Celina
  - B. Indira
  - C. Either Celina or Fatima
  - D. Jojo
- 94. Who is Ehshan's mother, if the person sitting two places away from the person sitting immediately next to Charlie is Celina?
  - A. Indira

B. Fatima

C. Jojo

- D. None of these
- 95. What is Gautam's seat number?

A. 1

3. 2

C. 4 D. None of these

96. Who is sitting immediately right of Amit?

A. Bhargav

B. Jojo

C. Ehshan

D. Nobody

97. Amit is older than Babloo but younger than chintoo. Dinesh is younger than Esha but older than Amit. If Chintoo is younger than Dinesh, then who is the oldest of all?

A. Amit

B. Chintoo

C. Dinesh D. Esha

98. Five persons are standing in a queue. One of the two persons at the extreme end is a professor and the other is a businessman. An advocate is standing to the right of the student. An author is to the left of the businessman. The student is standing between the professor and the advocate. Counting from the left the author is at which place:

A. 1st

B. 2nd

C. 3rd

D. 4th

Directions: A word has been coded but no specific code is indicated. Use your logic to pick the coded word which represents the given word the best.

#### 99. AGGRAVATE:

A. 144516178

B. 144452278

C. 192227156 D. 172555211

100. If in a code language 'MUSIC' is written as 'XVQYW' and 'USAGE' is written as 'VQZIF', then how can 'MAGIC' be written in that code:

> A. XZIWY C. XZIYW

B. XZWIY D. XZYIW

- 101. If 'MEDICAL' is written as 'DEMILAC' how is 'SUBJECT' written is that code?
  - A. BUSJETC

B. BUSTCTE

C. BUSJTCE

D. BUJSCTE

- 102. If the second day of a month is Friday, which of the following would be the last day of the next month which has 31 days?
  - A. Monday

B. Tuesday

C. Friday D. Data inadequate



103. Complete the following series

1331, \_\_\_\_, 3375, 4913, \_\_\_\_, 9261 A. 2197, 6859 B. 2197, 6589

C. 2179, 6589 D. 2917, 6958

104. Complete the following series.

A 1000, E 512, I 216, M 64, ?

A. Q 8 B. Q 18 C. S 88 D. P 8

**105.** If '+' means '-', '-' means 'x', 'x' means ' $\div$ ' and ' $\div$ ' means '+', then  $2 \div 6 \times 6 \div 2 = ?$ 

A. 0 C. 5 B. 4 D. 10

106. If 'yellow' is called white, 'white' is called pink, 'pink' is called red, 'red' is called black, 'black' is called green, 'green' is called orange, then what is the colour of coal?

A. Red

B. Orange

C. Green

D. Black

**107.** If  $16 \oplus 27 = 43$  and 23 39 = 56 then what will be the value of 25 48 = ?

A. 53

B. 55

C. 67 D. 77

**108.** Which one of the given responses would be a meaningful order of the following:

1. Stem 3. Root Flower
 Fruits

5. Leaves

Leaves
 3, 5, 1, 2, 4

B. 3, 2, 5, 1, 4

C. 3, 1, 5, 2, 4

D. 3, 1, 2, 5, 4

109. Kavita is the mother-in-law of Beena, who is the sister-in-law of Ashish. Dinesh is the father of Sanjay, the only brother of Ashish. How is Kavita related to Sanjay?

A. Mother-in-law B. Wife

C. Sister D. Mother

110. 'C' is a place which is located 2 km away in the north-west direction from the capital Z. R is another place that is located 2 km away in the south-west direction from 'C'. 'M' is another place and that is located 2 km away in the north-west direction from 'R'. 'T' is yet another place that is located 2 km away in the south-west direction from 'M'. In which direction is 'T' located in relation to 'Z'?

A. South-West B. West
C. North D. None

D None of these

111. In a row of girls Deepti is 18th from the left and Namita is 12th from right. If Namita shifts five places towards right, then the position of Deepti is immediately right to Namita. How many girls are there in the row?

A. 20 girls

B. 22 girls

C. 23 girls

D. 25 girls

112. Pick the odd one out.

A. Hear

B. Smell

C. Taste

D. Talk

113. Given two positions of the dice as being.





When 4 is at the top which number is at the bottom:

A. 5 C. 1

B. 2 D. 3

**Directions:** In the following question select the choice of letters which completes the first word and begins the second. The letters in the bracket end the first word and begin the second.

114. OPTI (....) RLY:

A. CALL

B. MISE

C. MIST D. UMUM

**115.** A tired lady slept at 07:45 PM. If she rose at 12 noon, for how many hours did she sleep?

A. 12 hours 15 minutes

B. 4 hours 15 minutes

C. 6 hours 45 minutesD. 16 hours 15 minutes

116. Find the odd one out from the given alternatives:

A. School - Peon

B. Dance - Dancer

C. Art - Artist

D. Song - Singer

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117. In a group of 36 persons, a total of 16 take cold drink while 9 take only cold drink not green coconut drink. How many persons in this group take only green coconut drink but not cold drink. (Every person take drink either cold drink or green coconut or both):

A. 27

B. 25

C. 20

D. 22

- 118. Vasant says, "I have as many sisters as brother". Vaishali say, "Each of us sisters has only half as many sisters as brothers". Assuming that Vasant and Vaishali are brother and sister, how many brothers and sisters are there in the family?
  - A. 8 brothers and 6 sisters
  - B. 6 brothers and 5 sisters
  - C. 5 brothers and 4 sisters
  - D. 4 brothers and 3 sisters

- 119. If 'A ₹ B' means 'A is the father of B', 'A @ B' means 'A is the mother of B', 'A! B' means 'A is the wife of B', then which of the following means 'T is the grandmother of U'?
  - A. T@R₹y!U
  - B. T @ S ₹ U! y
  - C. T@R!S!U
  - D. None of these
- **120.** Three views of a cube following a particular motion are given below:







What is the letter opposite to A?

A. M C. B B. P D. H

				ANSV	VERS				
1	2	3	4	5	6	7	8	9	10
D	В	C	C	A	A	D	C	A	В
11	12	13	14	15	16	17	18	19	20
D	В	В	C	C	D	D	Α	D	A
21	22	23	24	25	26	27	28	29	30
Α	C	В	C	В	В	D	D	A	A
31	32	33	34	35	36	37	38	39	40
C	A	C	C	В	D	A	A	A	A
41	42	43	44	45	46	47	48	49	50
C	C	C	C	В	C	C	В	A	C
51	52	53	54	55	56	57	58	59	60
A	A	В	D	D	C	D	В	C	D
61	62	63	64	65	66	67	68	69	70
C	C	В	В	В	A	В	В	A	В
71	72	73	74	75	76	77	78	79	80
В	В	D	В	C	В	D	C	В	В
81	82	83	84	85	86	87	88	89	90
В	C	В	В	В	C	В	В	A	D
91	92	93	94	95	96	97	98	99	100
C	C	C	В	C	D	D	D	A	C
101	102	103	104	105	106	107	108	109	110
C	D	A	A	C	C	C	C	D	В
111	112	113	114	115	116	117	118	119	120
C	D	В	В	D	A	C	D	В	D

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### **EXPLANATORY ANSWERS**

 Let no. of student in examination hall M = x and no. of student in examination hall N = y. According to the question,

$$x - 10 = y + 10$$

$$\Rightarrow x - y = 20 \qquad \dots(i)$$

Again x + 20 = 2 (y - 20)

$$\Rightarrow x + 20 = 2y - 40$$

$$\Rightarrow x - 2y = -60 \qquad ...(ii)$$

Solving equation (i) and (ii)

$$x = 100$$
 and  $y = 80$ 

Hence, in examination hall M no. of students = 100

and in examination hall N no. of students = 80

42. His amount in 2005

$$= (2500000 - 50000) \times 2$$
  
=  $2450000 \times 2 = 4900000$ 

In the year 2010, his amount

$$= (4900000 - 50000) \times 2$$
  
=  $4850000 \times 2 = 9700000$ 

In the year 2020 his amount will be

**43.** Let the present cost price of the article = ₹ 100 New cost cause of 40% less

When new cost ₹ 60, then old cost = 100

New cost ₹ 1, then old cost = 
$$\frac{100}{60} = \frac{5}{3}$$

Increase = 
$$\frac{5}{3} - 1 = \frac{2}{3}$$

% increase = 
$$\frac{2}{3} \times 100 = \frac{200}{3} \% = 66 \frac{2}{3} \%$$

44. Cost price of the article = ₹ 80

Marked price = ₹ 80 + 
$$\frac{50}{100}$$
 × 80 = ₹ 120

Selling price = 
$$120 - \frac{25}{100} \times 120 = ₹ 90$$

Profit 
$$\% = \frac{10}{80} \times 100 = \frac{25}{2} = 12\frac{1}{2}\%$$

**45.** 
$$100 \times 10 - 100 + 2000 \div 100$$

$$= 1000 - 100 + 20$$
$$= 1020 - 100 = 920$$

**46.** 
$$6\sqrt{12}$$
  $3\sqrt{4}$   $4\sqrt{5}$   $\sqrt{3}$ 

LCM of 
$$6$$
,  $3$ ,  $4$  and  $2 = 12$ 

$$6\sqrt{12} = {}^{6\times2}\sqrt{12^2} = {}^{12}\sqrt{144}$$

$$3\sqrt{4} = \sqrt[3 + 4]{4^4} = \sqrt[12]{256}$$

$$4\sqrt{5} = \sqrt[4 \times 3]{5^3} = \sqrt[12]{125}$$

$$\sqrt{3} = \sqrt[2 \times 6]{3^6} = \sqrt[12]{729}$$

Clearly  $\sqrt[4]{5}$  is the smallest.

47. Part fill in 1 hour by three pipes A, B, C

$$= \frac{1}{6} + \frac{1}{8} - \frac{1}{5} = \frac{20 + 15 - 24}{120} = \frac{11}{120}$$

Hence, time taken by tank to fill full

$$=\frac{120}{11}=10\frac{10}{11}$$
 hrs.

48. According to Alligation



From these mixture a new mixture 10: 14 will be ratio of 5: 7.

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**50.** Volume of cylinder =  $\pi r^2 h$ 

$$r - \frac{50}{100}r = r - \frac{r}{2} = \frac{r}{2}$$

$$h + \frac{60}{100}h = h + \frac{3h}{5} = \frac{8h}{5}$$

Volume of cylinder = 
$$\pi \left(\frac{r}{2}\right)^2 \left(\frac{8h}{5}\right) = \frac{2\pi}{5} r^2 h$$

Volume decrease = 
$$\pi r^2 h - \frac{2}{5} \pi r^2 h = \frac{3\pi r^2 h}{5}$$

% volume decrease = 
$$\frac{3\pi r^2 h}{5\pi r^2 h} \times 100 = 60\%$$
.

**51.** The distance of shadow from top to bottom of the pole

$$= \sqrt{(18)^2 + (9.6)^2} = \sqrt{324 + 92.16}$$
$$= \sqrt{416.16} = 20.4 \text{ m}.$$

**52.** 1 man's 1 day work = 
$$\frac{1}{24 \times 16}$$
 part

1 woman's 1 day work = 
$$\frac{1}{24 \times 32}$$
 part

12 day's work = 
$$12\left(\frac{16}{24 \times 16} + \frac{16}{24 \times 32}\right)$$

$$= 12 \left( \frac{2+1}{24 \times 32} \right) \times 16 = \frac{3}{4}$$

Remaining work = 
$$1 - \frac{3}{4} = \frac{1}{4}$$

16 men + 16 women's two days work

$$=2\left(\frac{16}{24\times32} + \frac{16}{24\times16}\right) = \frac{2\times3\times16}{24\times32} = \frac{1}{8}$$

Remaining work = 
$$\frac{1}{4} - \frac{1}{8} = \frac{1}{8}$$

$$\frac{1}{24 \times 16}$$
 part in 1 day

1 man works  $\frac{1}{8}$  part in two days

$$= 24 \times 16 \times \frac{1}{8} \times \frac{1}{2} \text{ men}$$
$$= 24 \text{ men}$$

= 24 1116

Hence, the remaining work done in 2 days, required no. of men = 24.

53. 
$$\frac{\pi r_1^2}{\pi r_2^2} = \frac{16}{49}$$
$$\frac{r_1^2}{14 \times 14} = \frac{16}{49}$$
$$r_1^2 = \frac{16 \times 14 \times 14}{49} = 16 \times 2 \times 2$$

$$\therefore r = \sqrt{16 \times 4} = 8$$

Hence, the radius of first field = 8 m.

54. Here.

$$S_1 = 90 \text{ km/hr}$$
  
 $S_2 = 70 \text{ km/hr}$ 

and x = 350 km

Distance between Kanpur and Agra

$$= \left(\frac{S_1 + S_2}{S_1 - S_2}\right) x \text{ km} = \left(\frac{90 + 70}{90 - 70}\right) \times 350 \text{ km}$$
$$= \frac{160}{20} \times 350 = 2800 \text{ km}.$$

55. Side of the rhombus  $=\frac{40}{4} = 10$  m.

In ΔABO,

$$\sin 60^{\circ} = \frac{OA}{AB}$$
$$\Rightarrow \frac{\sqrt{3}}{2} = \frac{OA}{AB} = \frac{OA}{10}$$

 $\therefore OA = 5\sqrt{3} \text{ cm}$ 

AC = 
$$10\sqrt{3}$$
 cm  
OB<sup>2</sup> =  $(10)^2 - (5\sqrt{3})^2$   
=  $100 - 75 = 25$ 

∴ OB = 5 cm

$$BD = 5 \times 2 = 10 \text{ cm}$$

Area of rhombus = 
$$\frac{1}{2} \times d_1 \times d_2$$
  
=  $\frac{1}{2} \times 10\sqrt{3} \times 10$   
=  $50\sqrt{3}$  cm<sup>2</sup>.

**56.** Let average age of 45 persons = x years Total age of 45 persons = 45x years

According to the question,

Average of 44 persons + one new man  $=\left(x-\frac{1}{\alpha}\right)$ 

Total age of 44 persons + one new man

$$=45\left(x-\frac{1}{9}\right)=45x-5$$

Clearly 5 years less in sum of ages of 45 persons.

Hence, the age of new man 60 - 5 = 55 years.

- 57. Let cost of cloths = ₹ 100
- and number of selling cloths = 100

Amount received from selling =  $100 \times 100$ = ₹ 10000

According to the question,

As cost of cloth increase 25% then new value of cloths will be = ₹ 125

No. of selling cloth decrease in 20% = 80

Amount received from selling cloth

= 125 × 80 = ₹ 10000

Since amount is equal in both condition

- Hence, no effect on receiving amount.
- 58. Part fill in 1 hour by (A + B)

$$=\left(\frac{1}{10} + \frac{1}{12}\right) = \frac{6+5}{60} = \frac{11}{60}$$

.. Part fill in 3 hours by (A + B) pipes.

$$= \frac{11}{60} \times 3 = \frac{11}{20}$$

= 5 hrs. 24 minutes.

Remaining part of tank =  $1 - \frac{11}{20} = \frac{9}{20}$ 

- : Pipe B fill in 12 hours.
- $\frac{9}{20}$  part will fill in =  $\frac{9}{20} \times 12$  hrs.  $=\frac{27}{5}=5\frac{2}{5}$  hrs. = 5 hrs.  $\frac{2}{5} \times 60$  minutes

59. Let CP of table = ₹ 100 (for Anil)

CP of Kamal = 
$$100 + \frac{10}{100} \times 100 = ₹ 110$$

CP of of Rajat = 
$$110 + \frac{12}{100} \times 110$$
  
=  $110 + 13.2 = ₹ 123.2$ 

When SP is ₹ 123.2 then C.P. = ₹ 100

When SP = ₹ 246.40 then, CP

$$=\frac{100}{123.2}$$
 × 246.4 = ₹ 200

Hence, CP of Anil = ₹ 200.

**60.** CP of 10 Sheeps =  $450 \times 10 = ₹ 4500$ CP of 5 Goats = 6000 - 4500 = ₹ 1500

Average price of Goat = 
$$\frac{1500}{5}$$
 = ₹ 300.

62. 8 men can do a work in 96 days

1 man can do same work in 8 x 96 days.

- 6 men can do the same work in  $\frac{8 \times 96}{6}$  = 128
- **63.** Ratio of 100 paise, 50 paise, 25 paise and 10 paise of coins 1:3:5:7

Ratio of amount of 100 paise, 50 paise, 25 paise and 10 paise coins

$$100 \times 1$$
:  $50 \times 3$ :  $25 \times 5$ :  $10 \times 7$   
or  $20$ :  $30$ :  $25$ :  $14$   
Sum of proportion =  $20 + 30 + 25 + 14 = 89$ 

Value of 100 paise coins

$$=\frac{20}{89}$$
 × 2225 = 500 paise = ₹ 5

Value of 50 paise coins =  $\frac{30}{80} \times 2225 = 750$ 

paise = ₹ 7.5

Value of 25 paise coins =  $\frac{25}{80} \times 2225 = 625$ 

paise = ₹ 6.25

Value of 10 paise coins =  $\frac{14}{80} \times 2225 = 350$ 

paise = ₹ 3.5

Hence, no. of coins of each type ₹ 1, 5; 50 paise, 15; 25 paise, 25; 10 paise, 35

**64.** 
$$\left(\frac{9}{7}\right)^3 \times \left[\left(\frac{7}{9}\right)^2\right]^{2x-6} = \left(\frac{7}{9}\right)^9$$

$$\Rightarrow \frac{9^3}{7^3} \times \frac{7^{4x-12}}{9^{4x-12}} = \left(\frac{7}{9}\right)^9$$

$$\Rightarrow \frac{(7)^{4x-15}}{(9)^{4x-15}} = \left(\frac{7}{9}\right)^9$$

$$\Rightarrow \left(\frac{7}{9}\right)^{4x-15} = \left(\frac{7}{9}\right)^9$$

$$\Rightarrow 4x - 15 = 9$$

$$\Rightarrow 4x = 24$$

$$\Rightarrow x = 6$$

**65.** Probability of blue ball = 
$$\frac{37}{19 + 37 + 27} = \frac{37}{83}$$

**66.** 
$$\frac{\frac{4}{3}\pi r^3}{4\pi r^2} = 27$$

$$\Rightarrow r = 81$$

$$\Rightarrow r = 81 \text{ cm}.$$

**68.** Total marks of 2 students = 100 + 100 = 200Total marks of 3 students = 3(0) = 0Total marks of 15 students =  $40 \times 15 = 600$ Total marks of 20 students = 200 + 600

Average of class = 
$$\frac{800}{20}$$
 = 40

**69.** Number of diagonals of *n* sided polygon  $= \frac{n(n-3)}{n}$ 

No. of diagonals in 30 sided polygon

$$=\frac{30(30-3)}{2}=15\times27=405$$

**71.** Length of rectangular field = 80 m. and breadth = 60 m.

Let breadth of the road = x m.

	x	1
Х		60

$$\therefore$$
 Area of the path =  $x(l+b-x)$ 

$$\Rightarrow$$
 675 =  $x (80 + 60 - x)$ 

$$\Rightarrow 675 = x(140 - x)$$

$$\Rightarrow 675 = 140x - x^2$$

$$\Rightarrow x^2 - 140x + 675 = 0$$

$$\Rightarrow x^2 - 135x - 5x + 675 = 0$$

$$\Rightarrow x(x - 135) - 5(x - 135) = 0$$

$$\Rightarrow x (x - 135) (x - 5) = 0$$

$$x = 135$$
, या  $x = 5$ 

Hence, breadth of the road will be 5 m.

75. Let three consecutive odd numbers are

$$x$$
,  $x + 2$  and  $x + 4$ 

According to the question,

$$4x = 3(x + 4) + 3$$
$$\Rightarrow 4x = 3x + 12 + 3$$

$$\Rightarrow x = 15$$

3rd number 
$$x + 4 = 15 + 4 = 19$$

**76.** Cost of 5 tables =  $5 \times 1227 = ₹ 6135$ Cost of 13 chairs = 8280 - 6135 = 2145

Average cost of chair = 
$$\frac{2145}{12}$$
 = ₹ 165

**75.** 
$$120 - 110 = 10$$

Profit %= 
$$\frac{10}{110} \times 100 = \frac{100}{11} = 9\frac{1}{11}$$
%

**78.** Let average run of a batsman of first eight matches = x

$$\frac{8x+100}{9} = x+9$$

$$\Rightarrow 8x + 100 = 9x + 81$$

$$\Rightarrow x = 100 - 81 = 19$$

Hence, the new run rate of that batsman = 19 + 9 = 28

**79.** 
$$2^{65} \times 2^{70} - 2^{97} \times 2^{38}$$
  
= $2^{65+70} - 2^{97} + 3^{8}$   
=  $2^{135} - 2^{135} = 0$ 

**80.** 
$$1296 \times \frac{4}{9}$$
 —  $2340 \times \frac{25}{100} = 144 \times 4 - 585$   
=  $576 - 585 = -9$ 

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# **■ PAPER-II**

#### GENERAL ENGLISH

**Directions (Question No. 1 to 7):** The passage given below is followed by some questions. Each some question has four alternative answers, out of which only one is correct. Write the serial number of correct answer (A), (B), (C) and (D) in the answersheet.

I read the other day some verses written by an eminent painter which were original and not conventional. The soul always hears an admonition in such lines, let the subject be what it may. The sentiment they instill is of more value than any thought they may contain. To believe your own thought, to believe that what is true for you in you in your private heart is true for all men - that is genius. Speak your latent conviction and it shall be the universal sense; for the inmost in due time becomes the outmost, and our first thought is rendered back to us by the trumpets of the last judgment. Familiar as the voice of the mind is to each, the highest merit we inscribe to Moses, Plato and Milton is that they set at naught books and traditions, and spoke not what men wanted, but what they thought. A man should learn to detect and watch that gleam of light which flashes across his mind from within, more than the luster of the firmament of bards and sages. Yet he dismisses without notice his thought, because it is his. In every work of genius we recognize our own rejected thoughts; they come back to us with a certain alienated majesty. Great works of art have no more affecting lesson for us than this. They teach us to abide by our spontaneous impression with goodhumored inflexibility than most when the whole cry of voices is on the other side. Else tomorrow a stranger will say with masterly good sense precisely what we have thought and felt all the time, and we shall be forced to take with shame our own opinion from others.

- 1. What is 'genius'?
  - A. One who is learned
  - B. One who trusts his thought

- C. One who invents something
- D. One who writes poetry
- 2. What is meant by 'Last judgment'?
  - A. Final disposal of a case
  - B. Judgment of the Supreme Court
  - C. Judgment of people
  - D. Judgment of God
- 3. Why do we ascribe the highest merit to Moses?
  - A. Because he relied on his own thought
  - B. Because he was a prophet
  - C. Because he was a poet
  - D. Because he was very brave
- 4. Why is the word 'they' underlined in 'what they thought'?
  - A. For the sake of importance
  - B. For the sake of clarity
  - C. For the sake of emphasis
  - D. For the sake of variety
- 5. What do we recognize in works of genius?
  - A. Great thoughts
  - B. Felicity of expression
  - C. Originality
  - D. Our own rejected thoughts
- 6. What is the greatest lesson that the great works of art impart?
  - A. That we should study the classics
  - B. That we should learn to express effectively
  - C. That we should abide by our own impressions
  - D. That we should develop a new style
- 7. When is it necessary to stick to our spontaneous impressions?
  - A. When nobody supports them
  - B. When majority of people oppose them
  - C. When they appear to be irrational
  - D. When they are likely to make us unpopular.

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- 8. Identify the incorrect sentence:
  - A. All that glitters is not gold.
  - B. All the boys were present.
  - C. All this money are useless for me.
  - D. Neither of them knows the answer
- 9. Identify the incorrect sentence:
  - A. The number of students is very small.
  - B. A number of books are missing.
  - C. Ram, as well as his ten friends, is going.
  - D. Many a man were drowned in the sea.
- 10. Identify the incorrect sentence:
  - A. Vermin destroy our property and carry disease
  - B. India won by an innings and three runs.
  - C. His means is small, but he has incurred no debt
  - D. The clergy are in the church.
- 11. Identify the correct sentence:
  - A. It is a three-years degree course.
  - B. Each student must bring their books.
  - C. I have ten dozens of shoes.
  - D. The collector and the District Magistrate is on leave.
- 12. Identify the correct sentence:
  - A. It is an one-rupee note.
  - B. Higher we go, cooler we feel.
  - C. It is me who caught the thief.
  - D. The house is built of brick.
- 13. Identify the correct sentence:
  - A. There is lots of book.

  - B. Forty miles are a good distance.
  - C. He is taking a bath.
  - D. He is used to work hard.
- 14. Identify the incorrect plural:
  - A. Passers-by
- B. Lookers-on
- C. Man-servants
- D. Sons-in-law
- 15. Fill in the blank using the correct tense:
  - By next July we ...... here for fours years.
    - A. Shall have been living
  - B. Shall live
  - C. Used to live
  - D. Shall be living

- 16. Fill in the blank using the correct tense: When Shivansh came to the school in 1996,
  - Mr. Rakesh ..... there for seven years.
  - A. Has already been teaching B. Had already been teaching

  - C. Has already teaching
  - D. Will have already been teaching
- 17. Four sentences have been given. You have to count the number of adverbs used in these sentences:
  - Rekha runs quickly. Manoi reads quite clearly. This is a very sweet mango. Evidently the figures are incorrect.
  - A. 5

B. 6

- C. 3
- D 4
- 18. Some words are used sometimes as adjectives, sometimes as adverbs. Four sentences have been given where in three sentences are containing words being used as adjectives and one sentence contains word being used as adverb. Identify the odd one:
  - A. Every little difficulty ruffles his temper. B. He is little known outside India.
  - C. There is much truth in what he says.
  - D. Are you an early riser?
- 19. Select the word that is most similar in meaning to the word in Capital letters: KNAVE
  - A. Novice
- B. Dishonest
- C. Disciplined
- D. Traditional
- 20. Select the word that is most similar in meaning to the word in Capital letters: OBSCURE
  - A. Famous
- B. Well Known
  - C. Unknown
- D. Prevalent
- 21. Choose the exact meaning of the idioms/ phrases from the given alternatives:
  - Duck in a thunderstorm
  - A. Distressed B. Peaceful
  - C. Entrapped
- D. Timid
- 22. Select the word that is most similar in meaning to the word in Capital letters: SUPERANNUATED
  - A. Experienced
- B. Accepted
- C. Retired D Gentle

30. Choose the correct preposition to fill in the gap He is descended ....... a noble family.

31. The same word is used as different parts of speech. In the given sentences, the word "above" has been used as different parts of speech. Point out the incorrectly matched pair:
A. The heavens are above ....... Adverb
B. The moral law is above Civil ...... Preposition
C. Analyse the above sentence ....... Con-

D. Our blessings come from above ......

B. From

D With

A. Of C. By

iunction



23.	. Choose the exact mea								
	phrases from the given alternatives:								
	FABIAN POLICY								
	<ul> <li>A. Dictatorial policy</li> </ul>								
	B. Democratic policy								
	C. Market Policy								
	D. Policy of using grad	dual reforms							
24.	. Choose the exact mea	ning of the idioms/							
	phrases from the given	alternatives:							
	TO KICK THE BUCKE	ET							
	A. To start an account								
	B. To start a sea journ	ey							
	C. To die								
	D. To start agricultural	l activity							
25.	. Choose the correct prep	position to fill in the							
	gap:								
	Ram lives 45 Tila	k Street.							
	A. in B	. at							
	C. with D	. for							
26.	. Choose the correct prep	position to fill in the							
	gap:								
	The income derived	the ownership of							
	land is commonly calle	ed rent.							
	A. By B	. From							
	C. With D	. In							
27.	. Choose the correct prep	position to fill in the							
	gap:								
	Ambition does not alw	Ambition does not always conduce							
	ultimate happiness.								
	A. by	. to							
	C. with D	. from							
28.	. Choose the correct prep	position to fill in the							
	gap:								
	All his life he laboure	d the good of							

humanity. He is labouring ...... a misappre-

hension. He laboured ...... his dictionary for

D. At, Under, Over

B. against

D. with

A. For, With, Over B. For, Under, At

29. Choose the correct preposition to fill in the gap I have no prejudice ...... foreigners.

twelve years.

A. for

C. to

C. At. With. Over

Noun 32. Rewrite the following sentence so as to get rid of the word "too" without changing the meaning of the sentence: He drove too fast for the police to catch. A. He drove so fast that the police could not catch him. B. He drove so fast but the police could catch him. C. He drove very fast that the police can not catch him D. He drove so fast that the police is not able to catch him. 33. Two or more simple sentences have been given. Combine two or more simple sentences into a single complex sentence. The cottager and his wife had a hen. The hen laid an egg everyday. The egg was golden. A. The cottager and his wife had a hen which laid a golden egg everyday. B. The cottager and his wife had a hen laying a golden egg everyday. C. The cottager and his wife had a hen that laid a golden egg everyday. D. The cottager and his wife with a hen laying a golden egg everyday. 34. Change the following sentence into correct passive voice: They ought not to blame others.



- A. Others ought not to be blamed by them.
- B. Others should not blame them.
- C. Others should not be blamed by them.
- D. Others ought not be blamed by them.
- **35.** Change the following sentence into correct passive voice:

They had already tasted victory.

- A. Victory had been tasted already by them.
- B. Victory had already been tasted by them.
- C. Victory had been tasted by them already.
   D. Already victory had been tasted by them.
- **36.** Change the following sentence into correct passive voice:

Are they flying kites?

- A. Are kites being flown by them?
- B. Are kites flown by them?
- C. Have kites being flown by them?
- D. Are kites being flew by them?
- 37. Change the following sentence into Indirect speech:

He said, "Be quiet and listen to my word".

- He requested them that they keep quiet and listen to his word.
- B. He requested them to maintain quiet and listen to his word.
- C. He urged them to be quiet and listen to his word.
- D. He said to them to keep quiet and listen to his word.
- 38. Choose the appropriate word/ group of words to fill the gap making the sentence meaningful

Ram ...... many prizes at the school sports.

- A. Got through
- B. Bore away
- C. Brought up
- D. Broke off
- 39. Select the antonym of the word given in capital letter:

TERSE:

- A. Diffuse
- B. Thin
- C. Intolerable I
- D. Agitated
- 40. Select the antonym of the word given in capital letter:

MEEK:

- A. Arrogant
- B. Retrogress
- C. Healthy
- D. Unnatural

41. In the following questions, pick out the correct meanings of the following idioms and phrases:

Through thick and thin

- A. Big and small
- B. Large object
- C. Under all conditions
- D. Thin and fat
- **42.** Choose the correct antonyms of the word given in capital letter:

HEIR:

- A. Follower
- B. Antagonist
- C. Ancestor
- D. Friend
- **43.** Choose the correct option out of the four choices given below:

He scoffed ...... the idea of revolution.

- A. With
- B. At
- C. To D. By
- 44. In each of the following groups of words, only one word is correctly spelt. Select the word with correct spelling.
  - A. inflameable
- B. inflammable
- C. inflamible
- D. inflammabil
- 45. In each of the following groups of words, only one word is correctly spelt. Select the word with correct spelling.
  - A. gratutious
- B. gratutous
- C. gratuitous
- D. greatutous
- 46. In each of the following groups of words, only one word is correctly spelt. Select the word with correct spelling.
  - A. intermittent
  - B. intermitent
  - C. intermetent
  - D. interrmittent
- Combine the following sentence by using an Adverb Clause.

Do not run fast, you will be tired.

- A. You will be tired by running fast.
- B. If you run fast, you will be tired.
- C. By running fast you will be tired.
- D. Running fast will affect you getting tired.

48.	Combine the following sentence b	by	using	aı
	Adverb Clause.			

He worked hard. He failed in the examination

- A He failed because he worked hard
- B. He worked hard but he failed.
- C. Although he worked hard, he failed.
- D. He worked hard and he failed.
- 49. Combine the following sentence by using an Adverb Clause.

The robbers had run away. The police arrived.

- A. The police arrived and the robbers ran awav.
- B. When the police arrived, the robbers had run away.
- C. The robbers ran away at the arrival of the police.
- D. Arriving the police the robbers ran away.
- 50. The plural of the word "cloth" which means "kinds or pieces of cloth"
  - A Cloths
- B. Clothes
- C. Cloath
- D. Clothee
- 51. Some nouns have two meanings in the singular but only one in the plural. Identify among choices the noun which have two meanings in singular but one in plural:
  - A. Pain
- B. People
- C. Spectacle
- D. Custom
- 52. Find out what kind of coordinating conjunctions have been used in the following sentence:

Either he is mad or he feigns madness.

- A. Cumulative or Copulative
- B Adversative
- C. Disjunctive or alternative
- D. Illative
- 53. Certain collective nouns, though singular in form are always used as plurals. Three of the following choices are such collective nouns while one is not. Find the one which is not?
  - A. Cattle
- B. Vermin
- C. Trout
- D. Gentry
- 54. Fill in the gap correctly:

The shirt cost me

- A. Five thousand rupee
- B. Five Thousands rupee
- C. Five Thousand rupees
- D. Five Thousands rupees
- 55. Fill the correct article.

Ramesh's father is \_\_ M.P and Suresh's father is \_\_ Member of Legislative Assembly:

- A. A. An
- B. An. An
- C. An. A
- D. An. The
- 56. Choose the correct passive voice of the sentence given in the question.

Deepa swept the floor vesterday:

- A. The floor is swept by Deepa yesterday.
- B. The floor was swept by Deepa vesterday.
- C. The floor had been swept by Deepa vesterday.
- D. The floor was being swept by Deepa yesterday
- 57. Choose the correct preposition and fill in

The old man may not live ...... the winter:

- A. Through
  - B. In
- C. Until D. Upto
- 58. Fill up the correct options.

...... did he enter the room than he shut the door:

- A. Hardly
- B. As Soon As
- C. No Sooner
- D When
- 59. Each of the following idioms/phrases is followed by four alternative meanings of which only one is correct.

Choose the correct one.

The casting vote of the chairman clinched the issue.

- A. Closed
- B. Decided
- C. Finished
- D. Started
- 60. Each of the following idioms/phrases is followed by four alternative meanings of which only one is correct.

Choose the correct one.

I was totally put out by his brazen manners.

- A. Removed from the place
- B. Condemned
- C. Ashamed
- D. Upset



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51	52	53	54	55	56	57	58	<b>59</b>	60
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