

# **Set 1 – 4th June Shift-I (2019)**

### REASONING ABILITY

- If DIG is coded as 25 and CUT is codes as 49, then how will KICK be coded as?
  - (a) 43

(b) 39

(c)41

- (d) 34
- 2. Select the option in which the given figure is embedded





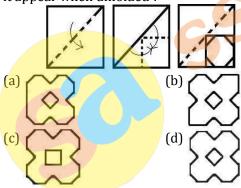




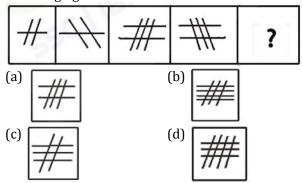
(d)



A paper is folded and cut as shown below. How will it appear when unfolded?



Select the figure that will come next in the 4. following figure series.



- Select the set in which the numbers are related in the same way as are the numbers of the following set.
  - (9, 35, 16)
  - (a) (16, 50, 64)
- (b) (25, 30, 4)
- (c) (36, 55, 25)
- (d) (81, 65, 36)
- Select the set in which the numbers are related in the same way as are the numbers of the following set.
  - (3, 24, 4)
  - (a) (6, 35, 11)
- (b) (2, 30, 8)
- (c) (12, 84, 4)
- (d) (4, 72, 9)
- Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
  - (a) CFIL

- (b) GHIJ
- (c) MOQS
- (d) PSUX
- Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.
  - (a) 126

(b) 189

(c) 254

- (d) 217
- In a family of eight persons, there are two couples, each having two children. B and D are brothers and each has two children. E is the aunt of A, who is the cousin brother of C. C is the sister of H, who is the cousin brother of G. F is the wife of B. How is H related to F?
  - (a) Nephew
- (b) son-in-law

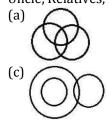
(c) Son

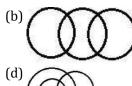
- (d) Brother-in-law
- 10. Arrange the following words in a logical and meaningful order
  - 1. Buv

- 2. Dinner
- 3. market
- 4. Vegetables

- 5. Cook
- (a) 1, 4, 5, 3, 2
- (b) 3, 5, 4, 1, 2
- (c) 4, 5, 3, 1, 2
- (d) 3, 4, 1, 5, 2

**11.** Select the venn diagram that best illustrates the relationship between the following classes Uncle, Relatives, Rich





**12.** Two different positions of the same dice are shown. Which number will be at the top if 6 is at the bottom?





(a) 4 (c) 5

- (b) 3 (d) 2
- **13.** 'Lawyer' is related to 'Justice' in the same way as 'Arbitrator' is related to '\_\_\_\_\_\_'.
  - (a) Judgment
- (b) Injustice
- (c) Settlement
- (d) Communication
- **14.** Three of the following four words are alike in a certain way and one is different. Pick the odd word out.
  - (a) Groundnut
- (b) Mustard
- (c) Cumin
- (d) Fennel
- 15. Two statement are given followed by three conclusion numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion logically follow(s) from the statements.

#### **Statements**

All rules are machines

Some machines are costly items

#### Conclusion

- I. some rules are costly items
- II. some costly items are machines
- (a) Both conclusion II and III follow
- (b) Both conclusion I and II follow
- (c) Only conclusion II follow
- (d) Only conclusion I follows
- **16.** Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

CEGI: AGEK:: DFHJ:?

(a) CHFI

- (b) CGIK
- (c) BHFL
- (d) BDJK
- **17.** Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.
  - b\_bab\_bc\_abbb\_ba\_b
  - (a) cbbac
- (b) cbabc
- (c) cbbcb
- (d) bcbab

- **18.** Which number will replace the question mark (?) in the following series ?
  - 3, 7, 16, 35, ?, 153
  - (a) 84

(b) 74

(c) 78

- (d) 63
- **19.** In the code language, VICTORY is written as CIVSYRO. How will TRAITOR be written as in that language?
  - (a) RATHORT
- (b) RTAJORT
- (c) ARTIOTR
- (d) ARTHROT
- **20.** Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number pair.
  - 36:84
  - (a) 27:63
- (b) 21:51
- (c) 57 : 135
- (d) 45 : 95
- 21. Rs 1,875 is divided among A, B and C in such a way that A's share is half of the combined share of B and C, and B's share is one-fourth of the combined share of A and C. By what amount is C's share more than that of A?
  - (a) Rs 500
- (b) Rs 225
- (c) Rs 250
- (d) Rs 200
- **22.** Select the word-pair in which the two words are related in the same way as are the two words in the following word pair
  - Book: Thesaurus
  - (a) Tree : forest
- (b) Reptile: Python
- (c) Furniture : Wood
- (d) Tennis: Ball
- **23.** Which two signs should be interchanged in the following equation to make it correct?
  - $12 8 + 12 \times 9 \div 3 = 9$
  - (a) + and  $\div$
- (b) + and  $\times$
- (c) and  $\div$
- (d) + and -
- **24.** How many squares are there in the following figure?



(a) 12

(b) 16

(c) 13

- (d) 14
- **25.** Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

## **GENERAL AWARENESS**

	dance, performed evil spirits, is a dance form (a) Chham (c) Dham  The Musi and Bhima are  (a) Mahanadi	n of Himachal Pradesh. (b) Natya (d) Gogra		According to the Econ report 'World wide Cost which of the following i cheapest cities in India? (a) Mumbai (c) New delhi Which of the following wadiyar dynasty?	of living Survey 2019', s NOT one of the three (b) Bengaluru (d) Chennai		
28.	(c) Kaveri (d) Brahmaputra  The Malimath Committee Report deals with (a) Judicial delays (b) Textile sector reforms (c) Criminal justice system reforms (d) Stock market reforms			(a) Mysore (b) Guwahati (c) Jabalpur (d) Patna  Name the first ever judge of the Suprem against whom the motion of impeachme introduced into Parliament in Independent (a) Justice Viraswami (b) Justice Rama (c) Justice Mahajan (d) Justice Subba			
29.	Who attacked and loote temple in 1026 AD? (a) Muhammad Gori (c) Nadir shah	d the famous Somnath  (b) Mahmud of Ghazni  (d) Genghis khan	40.	In march 2019,	following the demise of		
30.	Which country was the fi and services Tax (GST)? (a) France (c) Germany	(b) USA (d) Canada	41.	J J Thomson received the the discovery of  (a) Protons (c) Neutrons			
31.	Which of the following is ramines of Odisha?  (a) Azurite (c) Bauxite	nined in the Badampahar  (b) Dolomite  (d) Hematite	42.	Which queen died fighti defending Garha Katanga (a) Rani Avantibai (c) Rani Durgavati			
32.	Sundari is a well -known in (a) Tropical rainforests (b) Himalayan mountains			Which gas in its solid statice? (a) Nitrogen (c) Oxygen	(b) Carbon dioxide (d) Hydrogen		
	(c) Tropical deciduous forests (d) Mangrove forests		44.	The Olympic Council of Asia (OCA) has decided to reintroducein the 2022 Asian Games to be held at Hangzhou, China after it was dropped in 2010.			
33.	The tata Iron and Steel established by Dorabji Tat (a) 1919	a in : (b) 1913	45	<ul><li>2018.</li><li>(a) Fencing</li><li>(c) soccer</li><li>The property of catenation</li></ul>	(b) Cricket (d) Volleyball		
34.	(c) 1907 Who was the first female I in Puducherry?			(a) Sulpur (c) silicon 'Thoda' a sport dance b	(b) nitrogen (d) carbon		
	(a) Aswathy Tonge (c) Kiran Bedi	(b) Kanchan Choudhary (d) Sundari Nanda		following states? (a) Sikkim (c) Haryana	(b) Andhra pradesh (d) Himachal pradesh		
35.	Which of the following ele (a) tin (c) Silicon	ments is a metalloid? (b) Bismuth (d) Phosphorus	47.	The lone gold medal for India was wat the 38 <sup>th</sup> GeeBee Boxing Tourname at Helsinki, Finland.			
36.	Methyl propane is an isom (a) n-hexane (c) n-propane	er of (b) n-butane (d) n-pentane		(a) Kavinder Singh Bisht (b) Naveen Kumar (c) Mohammmad Hussam (d) Shiva Thapa	uddin		

- **48.** The \_\_\_\_\_ edition of the India-Indonesia coordinated patrol (IND-INDO CORPAT) held from 19 March to 4th April 2019 was inaugurated at Port Blair, Andaman and Nicobar Islands
  - (a) 23rd

(b) 42<sup>nd</sup>

(c) 45th

(d) 33rd

- is the founder of Facebook
  - (a) Mark Zuckerberg
- (b) Brian Acton
- (c) Jimmy Wales
- (d) Large Page
- **50.** The Indian National Association was established in in Calcutta 1876 by \_\_\_
  - (a) Badruddin Tyabji
- (b) V K Chiplunkar
- (c) Anand Mohan Bose
- (d) Sisir kumar ghosh

### **QUANTITATIVE APTITUDE**

- **51.** A circle is inscribed in a triangle ABC. It touches the sides AB, BC and AC at the points R, P and Q respectively. If AQ = 4.5 cm, PC = 5.5 cm and BR = 6cm, then the perimeter of the triangle ABC is
  - (a) 30.5 cm
- (b) 28 cm
- (c) 32 cm
- (d) 26.5 cm
- **52.** The table shows the production of different types of cars (in thousands)

Years	2012	2013	2014	2015	2016
A	30	35	48	45	56
В	42	48	40	38	56
C	48	36	38	35	44
D	51	24	30	46	54
Е	20	42	40	35	43

If the data related to the production of cars of type E is represented by a pie chat, then the central angle of the sector representing the data of production of cars in 2013 will be

(a) 102°

(b) 84°

 $(c) 70^{\circ}$ 

- (d) 80°
- **53.** A truck covers a distance of 384 km at a certain speed. if the speed is decreased by 16 km/h, it will take 2 hrs more to cover the same distance. 75% of its original speed (in km/h) is
  - (a) 45

(b) 54

(c) 48

- (d) 42
- **54.** The ratio of the ages of A and B, four years ago, was 4 : 5. Eight years from now, the ratio of the ages of A and B will be 11:13. What is the sum of their present ages?
  - (a) 80 yrs
- (b) 96 yrs
- (c) 72 yrs
- (d) 76 yrs
- **55.** In  $\triangle$ ABC, F and E are the points on sides AB and AC, respectively, such that FE || BC and FE divides the triangle in two parts of equal area. If AD  $\perp$  BC and AD intersects FE at G, then GD: AG =?
  - (a)  $\sqrt{2}$ : 1
- (b)  $(\sqrt{2}-1):1$
- (c)  $2\sqrt{2}:1$
- (d)  $(\sqrt{2} + 1) : 1$

- **56.** If  $4 2 \sin^2 \theta 5 \cos \theta = 0$ ,  $0^{\circ} < \theta < 90^{\circ}$ , then the value of  $sin\theta + tan\theta$  is
  - (a)  $\frac{3\sqrt{2}}{2}$

(b)  $\frac{3\sqrt{3}}{2}$  (d)  $2\sqrt{3}$ 

(c)  $3\sqrt{2}$ 

- **57.** The table shows the production of different types of cars (in thousands)

Years Cars	2012	2013	2014	2015	2016
A	30	35	48	45	56
В	42	48	40	38	56
C	48	36	38	35	44
D	51	24	30	46	54
E	20	42	40	35	43

What is the ratio of the total production of cars of type A in 2014 and type C in 2013 taken together to the total production of cars of type B in 2016 and type E in 2015 taken together?

- (a) 12:13
- (b) 11:12
- (c) 10:11
- (d) 12:11
- **58.** if decreasing 120 by x% gives the same result as increasing 40 by x%, then x% of 210 is what percent less than (x + 20)% of 180?
  - (a)  $33\frac{1}{3}$

(b) 18

(c)  $16\frac{2}{3}$ 

- (d) 20
- **59.** If  $(5\sqrt{5}x^3 81\sqrt{3}y^3) \div (\sqrt{5}x 3\sqrt{3}y) = (Ax^2 + y^2)$ By<sup>2</sup> + Cxy), then the value of  $(6A + B - \sqrt{15}C)$  is
  - (a) 10

(b) 9

(c) 15

- (d) 12
- **60.** If a nine-digit number 985x3678y is divisible by 72, then the value of (4x - 3y) is
  - (a) 5

(b) 4

(c) 6

- (d)3
- **61.** If  $\sin\theta = \frac{p^2 1}{p^2 + 1}$ , then  $\cos\theta$  is equal to
  - (a)  $\frac{2p}{1+p^2}$

- **62.** The ratio of the efficiencies of A, B and C is 2 : 5 : 3. Working together, they can complete a work in 27 days. B and C together can complete  $\frac{4}{9}$  the part of that work in:
  - (a) 27 days
- (b) 15 days
- (c)  $17\frac{1}{7}$  days
- (d) 24 days
- **63.** The average of twelve numbers is 42. The average of the last five numbers is 40, and that of the first four numbers is 44. The 6th number is 6 less than the fifth and 5 less than the 7th number. The average of the 5th and the 7th numbers is
  - (a) 44

(b) 44.5

(c)43

- (d) 43.5
- **64.** If x + y + z = 19,  $x^2 + y^2 + z^2 = 133$  and  $xz = y^2$ , then the difference between z and x is
  - (a) 5

(b) 3

(c) 6

- (d) 4
- **65.**  $\frac{2 + \tan^2 \theta + \cot^2 \theta}{\sec \theta \csc \theta}$  is equal to
  - (a)  $\cot \theta$

- (b)  $\cos\theta\sin\theta$
- (c)  $sec\theta cosec\theta$
- (d)  $tan\theta$
- 66. In a circle of radius 10 cm, with centre 0, PQ and PR are two chords each of length 12 cm. PO intersects chord QR at the points S. The length of OS is
  - (a) 2.8 cm
- (b) 2.5 cm
- (c) 3.2 cm
- (d) 3 cm
- 67. A sum amounts to Rs 8,028 in 3 yrs and to Rs 12,042 in 6 yrs at a certain rate percent per annum, when the interest is compounded yearly. The sum is
  - (a) Rs 5,352
- (b) Rs 5,235
- (c) Rs 5,325
- (d) Rs 5,253
- **68.** The value of  $2 \times 3 \div 2$  of  $3 \times 2 \div (4 + 4 \times 4 \div 4)$  of  $4 4 \times 4 \div 4$  $4 \div 4 \times 4$ ) is:
  - (a) 8

(b) 1

(c)4

- (d) 2
- **69.** After giving two successive discounts, each of x%, on the marked price of an article, total discount is Rs 259.20. if the marked price of the article is Rs 720, then the value of x is:
  - (a) 18

(b) 24

(c) 20

(d) 25

- **70.** A solid cube of volume 13824 cm<sup>3</sup> is cut into 8 cubes of equal volumes. the ratio of the surface area of the original cube to the sum of the surface areas of three of the smaller cubes is
  - (a) 2:3

(b) 4:3

(c) 8:3

- (d) 2:1
- **71.** The table shows the production of different types of cars (in thousands)

Years	2012	2013	2014	2015	2016
A	30	35	48	45	56
В	42	48	40	38	56
С	48	36	38	35	44
D	51	24	30	46	54
Е	20	42	40	35	43

The total production of type B cars in 2012, 2014 and 2015 taken together is approximately what percent more than the total production of type A cars in 2013 and 2016 taken together?

(a) 31.9

(b) 33.2

(c) 36.3

- (d) 34.4
- 72. The table shoes the production of different types of cars (in thousands)

Years	2012	2013	2014	2015	2016
A	30	35	48	45	56
В	42	48	40	38	56
C	48	36	38	35	44
D	51	24	30	46	54
Е	20	42	40	35	43

The numbers of years, in which the production of cars of type B is less than the average production of type D cars over the years is

(a) 4

(b) 1

(c) 3

- (d) 2
- 73. A person sold an article at a loss of 15%. had he sold it for Rs 30.60 more, he would have gained 9%. To gain 10%, he should have sold it for
  - (a) Rs 140.25
- (b) Rs 132
- (c) Rs 130
- (d) Rs 128.40
- **74.** In a  $\triangle ABC$ , the bisectors of  $\angle B$  and  $\angle C$  meet at point O, inside the triangle. If ∠BOC = 122°, then the measure of ∠A is
  - (a) 64°

(b) 62°

 $(c)72^{\circ}$ 

- (d) 68°
- **75.** If  $x^4 + x^{-4} = 194$ , x > 0, then the value of  $(x 2)^2$  is (a) 1

(b) 6

(c)2

(d)3

## **ENGLISH LANGUAGE**

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<b>Directions (76-80):</b> In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.			85.	Select the antonym of the <b>SCARCE</b> (a) scanty (c) seldom	given word  (b) few (d) plentiful	
corr offe	al's city government is as rect poorly translated stre r for (76) who s ning (77) two-we	eet sings-with prizes on spot the most errors. It's	86.	Select the wrongly spelt v (a) calander (c) callous	word (b) career (d) carriage	
Koreans and foreigners (78) to keep their eyes peeled for (79) in English, Japanese and Chinese text, the Korea Times reports. There's (80) focus on public transport signs, maps and information signs at historic sites, as part of a drive to improve the experience of foreign tourists in the South Korean capital.			87.	Select the most appropriate word to fill in the blank  Around sixty bands in colourfultook parent in the Notting Hill Carnival.  (a) clothings (b) costumes (c) apparels (d) dressing		
76.	Select the most appropriation (a) this (c) that	te option for blank no. 1 (b) those (d) these	88.		means the same as the	
77.	Select the most appropriation (a) one (c) an	te option for blank no. 2 (b) the (d) a		height (a) wizard (c) creature	(b) dwarf (d) witch	
78.	Select the most appropriation (a) same (c) alike	te option for blank no. 3 (b) similarly (d) likely	89.	substitution is required, s	n the given sentence. If no select "no improvement".	
79.	Select the most appropriation (a) guffaws (c) oversight	te option for blank no. 4 (b) blunder (d) mistakes		wages for a long time.  (a) have been demanding  (b) demanded higher wag		
80.	Select the most appropriation (a) particular (c) signifying	te option for blank no. 5  (b) important (d) meticulous		(c) no improvement (d) has demanded higher	wages	
81.	Select the synonym of the COERCE (a) enchant (c) cajole	giv <mark>en wor</mark> d (b) pressurize (d) leave	90.	substitution is required, s	nate option to substitute in the given sentence. If no select "no improvement". ere, the traffic police has	
82.	In the sentence identicontains the grammatical We had to decline severa	<mark>e</mark> rror.		(a) will fine you (c) fine you	<ul><li>(b) no improvement</li><li>(d) fined you</li></ul>	
	production was held up due to labour strike.  (a) in case that  (b) the production was held up  (c) due to labour strike  (d) we had to decline			<ul><li>Given below are four jumbled sentences. Select the option that gives their correct order.</li><li>A. The cafe's owner says he's interested in conservation, and hopes customers will realise the animals are worth saving, even though</li></ul>		
83.	Select the most appropriate blank His company has the cricket balls in the country	of producing the best		customers can get up the reptiles.	re venomous, meaning o close and personal with	
	(a) opinion (c) reputation	(b) brand (d) position		snakes.	ink in the company of 35	
84.	Select the antonym of the <b>EXPANSION</b> (a) inflation (c) extension	given word  (b) augmentation  (d) compression		<ul><li>D. This café, which has not for the faint-hear</li><li>(a) DBCA</li><li>(c) ABCD</li></ul>	just opened in Tokyo, is ted. (b) DCBA (d) ABDC	

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- **92.** Given below are four jumbled sentences. Select the option that gives their correct order.
  - **A.** An environmental group performed a necropsy on the animal and found about 40 kilograms of plastic, including grocery bags and rice sacks.
  - **B.** A 4.7-metre long whale died on Saturday in Philippines where it was stranded a day earlier.
  - **C.** "It is very disgusting and heartbreaking," he said. "We've done necropsies on 61 dolphins and whales in the last 10 years and this is one of the biggest amounts of plastic we've seen."
  - **D.** "The animal died from starvation and was unable to eat because of the trash filling its stomach," said Darrell Blatchley, Director of D'Bone Collector Museum Inc.
  - (a) ABCD

(b) DABC

(c) BADC

(d) BACD

**93.** Select the most appropriate meaning of the given idiom.

To play ducks and drakes

(a) to use recklessly

(b) to change places

(c) to be friendly

(d) to act cleverly

**94.** In the sentence identify the segment which contains the grammatical error.

Cyclone Idai killed at least 157 people in Zimbabwe and Mozambique although it tore across southern Africa.

(a) cyclone ldia killed

(b) it tore across

(c) although

(d) at least 157 people

**95.** Select the correct active form of the given sentence.

Every passing vehicle was being thoroughly checked by the guards.

- (a) the guards were thoroughly checking every passing vehicle
- (b) the guards have thoroughly checked every passing vehicle
- (c) every passing vehicle were thoroughly checking the guards
- (d) the guards have been thoroughly checking every passing vehicle.

- **96.** Select the wrongly spelt word
  - (a) exploite

(b) explicit

(c) expire

(d) explode

**97.** Select the synonym of the give word

### **CHRONIC**

- (a) ordinary
- (b) persistent

(c) common

(d) temporary

**98.** Select the most appropriate meaning of the given idiom.

At daggers drawn

- (a) deceiving somebody
- (b) without hope
- (c) friendly with each other
- (d) bitterly hostile
- **99.** Select the word which means the same as the group of words given

A student who idly or without excuse absents himself/herself from school

(a) truant

(b) vagrant

(c) itinerant

(d) migrant

**100.** Select the correct passive form of the given sentence

Do not buy medicines without the doctor's prescription.

- (a) Medicines should not be bought without the doctor's prescription.
- (b) Medicines need to be bought without the doctor's prescription.
- (c) Medicines might not be bought without the doctor's prescription.
- (d) Medicines could not be bought without the doctor's prescription.