**LOGICAL ABILITY**

**Q.1 Look at the series 7,10,8,11,9,12……. What number should come next?**

A. 7

B.10

C.12

D.13

**Q.2 Look at the series 53,53,40,40,27,27, ……. what number should come next?**

A.12

B. 14

C. 27

D.53

**Q.3 X introducing Y saying “He is the husband of the granddaughter of the father of my father”. How is Y related to X?**

A. Brother

B. Uncle

C Co-brother

d. Brother- in- law

**Q.4 Which word does Not belong with the others?**

A. inch

B. ounce

c. centimeter

D. yard

**Q.5 Which word does NOT belong with the others?**

A. tulip

B. rose

C. bud

D. daisy

**Q.6 SCD, TEF,UGH, \_\_\_\_\_ WKL**

A. CMN

b. UJI

C. VIJ

D. IJT

**Q.7 CMM , EOO,GQO, \_\_\_\_\_ KUU**

A. GRR

B. GSS

C. ISS

D. ITT

**Q.8 Each question has an underlined word followed by four answer choices. You will choose the word that is a necessary part of the underlined word.**

School

1. Student
2. Report card
3. Test
4. Learning

**Q.9 Book**

A. Fiction

B. Pages

C. Pictures

D. Learning

**Q.10 All the trees in the park are flowering trees.**

**Some of the trees in the park are dogwoods.**

**All dogwoods in the park are flowering trees.**

**If the first two statements are true, the third statement is**

1. True
2. False
3. Uncertain
4. None

**Q.11 Look at the series 22, 21, 23, 22,24,23, …… What number should come next?**

A. 22

B. 24

C. 25

D. 26

**Q.12 6 10 14 18 22 26 30**

A. 36 40

B. 33 37

C. 38 42

D. 34 38

**Q.13 Which word does Not belong with the others?**

A. core

B. seeds

c. pulp

d. slice

**Q.14 Marathon is to race as hibernation is to**

A. Winter

B. bear

C. dream

D. sleep

**Q.15 Cup is to coffee as bowl is to**

1. Dish
2. Soup
3. Spoon
4. Food

**Q.16 JAK, KBL, LCM, MDN \_\_\_\_**

A. OEP

B. NEO

C. MEN

D. PFQ

**Q.17 Swimming is a necessary part of**

A. Pool

B. Bathing Suit

C. Water

D. life jacket

**Q.18 Mara runs faster than Gail.**

**Lily runs faster than Mara.**

**Gail runs faster than lily.**

**If the first statement is true, the third statement is**

1. True
2. False
3. Uncertain
4. None

**Q.19 During the past year, Josh saw more movies than Stephen.**

**Stephen saw fewer movies than Darren.**

**Darren saw more movies than Josh.**

**If the first two statements are true , the third statement is**

1. True
2. False
3. Uncertain
4. None

**Q.20 On 8th February, 2020 it was Saturday. What was the day of the week on 1st February, 2016?**

A. Sunday

B. Monday

c. Tuesday

D. Wednesday

**Part B Mathematics**

**1.What is the sum of first five prime numbers?**

a) 18

b) 25

c) 26

d) 28

**2. If you save 1 paisa today, 2 paisa next day, 4 paisa the succeeding day and so on, then what is the total saving on the week?**

a) 127 paisa

b) 64 paisa

c) 256 paisa

d) 128 paisa

**3.Which of these numbers is not a prime number?**

A 2

B 5

C 7

D 9

**4.What is 25% of 84?**

A 59

B 21

C 109

D 42

**5.What is the sum of the first four odd numbers?**

A 4

B 10

C 16

D 20

**6. How many factors do 8, 12 and 20 have in common?**

A 1

B 2

C 3

D 4

**7. If a = 5 what is 2a?**

A 10

B 52

C 7

D 25

**8. If x + 12 = 17, what is x?**

A 29

B 5

C 17

D none of these

**9. An angle of 270° is called:**

A obtuse

B reflex

C acute

D a straight‐angle

**10. A rectangle has an area of 20 cm2. Its longer sides each measure 5cm. What is its perimeter?**

A 9cm

B 18cm

C 20cm

D 25cm

**11. A triangle has angles of 80° and 20°. The third angle is:**

A 20°

B 100°

C 80°

D 180°

**12.Four girls have an average height of 1⋅4m. A boy, also of height 1⋅4m, joins them. The average height of all five will:**

A increase

   B stay the same

  C decrease

D can’t say

**13.What is the mode of these numbers?    1   1   1   2   3   4   6 ?**

A 2

B 5

C 1

D 18

14. **The ratio of a 2 digit number to the sum of digits of that number is 4:1 if the digit in the unit place is 3 more than the digit in the tens place , then find the number.**

A 63

B 36

C 24

D 40

**15.One inch is about 2⋅5 cm. There are 12 inches in 1 foot. How many cm are there in two feet?**

A 12 cm

B 14⋅5 cm

C 24 cm

D 60 cm

**16. Four different electronic devices make a beep after every 30 minutes, 1 hour,1 hour 30 minutes, 1 hour 45 minutes respectively. All the devices beeped together at 12 noon. They will again beep together at**

A 12 midnight

B 3 a.m

C 6 a.m

D 9 a.m

**17.If 5x + 13 = 31, what is the value of x**

a) 3.6

b) 6

c) 7

d) 8

**18.Junk e-mail is also called \_\_\_\_\_\_**

A. Spam

B. Spoof

C. Spool

D. Snipper.

**19. which of the following is not an Application software?**

A. Window 10

B.MS Word

C. Photoshop

D. Google Chrome.

**20.The Audio File has Extension?**

A.JPEG

B.MP3

C.BMP

D.docx

**SAMPLE PAPER -2**

1. **QPO, NML, KJI, \_\_\_\_\_, EDC**
2. HGF
3. CAB
4. JKM
5. GHD

 Option 1

**2. Look at this series: 36, 34, 30, 28, 24, … What number should come next?**  
A. 22  
B. 26  
C. 23  
D. 20  
Answer: Option A

**3. Look at this series: 2, 1, (1/2), (1/4), … What number should come next?**  
A. (1/3)  
B. (1/8)  
C. (2/8)  
D. (1/16)  
Answer: Option B.

**4. Which word does NOT belong with the others?**  
A. index  
B. glossary  
C. chapter  
D. book  
Answer: D. Book

**5. Which word is the odd man out?**  
A. hate  
B. fondness  
C. liking  
D. attachment  
Answer: A. hate

**6. CUP : LIP :: BIRD : ?**  
A. GRASS  
B. FOREST  
C. BEAK  
D. BUSH  
Answer: C. BEAK

**7.) Sam said to Rita “Your mohter’s husband’s sister is my aunt”. How is Rita related to Sam?**

(1) Daughter

(2) Niece

(3) Sister

(4) Mother

3

**8.Arrange the following in a meaningful sequence:**

**1. Consultation 2. Illness 3. Doctor 4. Treatment**

* 1. 1234
  2. 2314
  3. 4321
  4. 4213

B

**9.What should come in the place of (?) in the given series?**

**ACE, FGH, ?, PON**

1. KKK
2. JKI
3. HJH
4. IKL

Ans. (A)

**10.Typist : Typewriter : : Writer: ?**

1. Script
2. Pen
3. Paper
4. Book

Ans.(B)

**11.Paint: Artist: : Wood: ?**

1. Furniture
2. Forest
3. Fire
4. Carpentr

Ans. (D)

**12.‘Medicine’ is related to ‘Patient’ in the same way as ‘Education’ is related to—**

1. Teacher
2. School
3. Student
4. Hospital

Ans. (C)

**13.Fill in the missing letter in the following series— S, V, Y, B,?**

1. C
2. D
3. E
4. G Ans. (C)

**(Q14-16)Select the one which is different from the other three.**

**14**.(A) January

1. February
2. July
3. December Ans. (B)

**15**.(A) Bible

1. Panchsheel
2. Geeta
3. Quran Ans. (B)

**16.(**A) Star

1. Sun
2. Sky
3. Moon Ans. (C)

**Directions—(Q. 17 to 19): based on alphabets**

**17.If the sequence of the alphabets is reversed which of the following would be the 14th letter from your left?**

1. N
2. L
3. O
4. None of these Ans. (D)

**18.Which letter is the 8th letter to the right of the letter, which is 12th from the left?**

1. V
2. T
3. W
4. Y Ans. (B)

**19.Which letter is the 8th letter to the right of the letter which is 10th to the left of the last but one letter from the right?**

1. V
2. X
3. W
4. I Ans. (C)

**20.If ‘CAT’ and ‘BOAT’ are written as XZG and ‘YLZG’ respectively in a code language how is ‘EGG’ to be written in the same language?**

1. VSS
2. URR
3. VTT

(D)UTF

Ans. (C

Part B-Mathematics

**1) There are 40 coins in a bag, consisting of Rs. 5 and Rs. 2 coins. If the total amount is Rs. 140, how many Rs. 2 and Rs. 5 coins are there in the bag?**

(1) 20 each

(2) 25 and 15

(3) 30 and 10

(4) 22 and 18

1

**2) 6(3 – x) –5 (2x – 4) = 4(3x–) + 14 In the above equation the value of x is:**

(1) 3

(2) 2

(3) 1

(4) ½

3

**3) Oranges are bought at 5 for Rs. 10 and sold at 6 for Rs. 15. The profit or loss as percentage is:**

(1) 50%

(2) 40%

(3) 35%

(4) 25%

Ans -4

**4) All natural numbers and 0 are called the \_\_\_\_\_\_\_ numbers.**

(1) whole

(2) prime

(3) integer

(4) rational

**5) A man walks 3 km northwards and then turns left and goes 2 km. He again turns left and goes 3 km. He turns right and walks straight. In which direction he is walking now?**

1. East
2. West

(C)North

(D)South

**6) How many 5’s are in the following sequence of numbers which are immediately preceded by 7?**

8 9 5 3 2 5 3 8 5 5 6 8 7 3 3 5 7 7 5 3 6 5 3 3 5 7 3 8

1. One
2. Two
3. Three
4. Four

**7) A rational number can be represented in the form of:**

A. p/q

B. pq

C. p+q

D. p-q

**8.The value of (5/4) – (8/3) is:**

A. 17/12

B. -17/12

C. 12/17

D. -12/17

**9. The associative property is applicable to:**

A. Addition and subtraction

B. Multiplication and division

C. Addition and Multiplication

D. Subtraction and Division

**10.The value of (-10/3) x (-15/2) x (17/19) x 0 is:**

A. 0

B. 22.66

C. 20

D. 35

**11.The multiplicative identity of rational numbers is:**

A. 0

B. 1

C. 2

D. -1

**12. What is the product of 2/9 and ¾?**

A. ⅙

B. ⅔

C. 1/9

D. ¼

**13.  What is the value of 100 divided by 0?**

A. 0

B. 100

C. 1

D. Undefined

14. **Find the additive inverse of 11/7?**

A. 7/11

B. -7/11

C. 11/7

D.-11/7

**15.How many rational numbers are there in between ¾ and 1?**

A. 0

B. 1

C. 2

D. Countless

**16.  If AB and CD are two parallel sides of a parallelogram, then:**

A. AB>CD

B. AB<CD

C. AB=CD

D. None of the above

17. **Which one of the following is a regular quadrilateral?**

A. Square

B. Trapezium

C. Kite

D. Rectangle

**18. Each of the angles of a square is:**

A. Acute angle

B. Right angle

C. Obtuse angle

D. 180 degrees

**19.  To construct a quadrilateral, we need to know two adjacent side and \_\_\_\_\_ angles.**

A. One

B. Two

C. Three

D. All four angles

**20.To construct a square, we need to know:**

A. All the interior angles

B. All the side lengths

C. Only one interior angle

D. Only one side length