

## Section : General Intelligence

1. Select the set in which the numbers are related in the same way as are the numbers of the following set.

8, 6, 28

- A. 7, 2, 45                      B. 6, 4, 30  
C. 10, 5, 85                    D. 12, 6, 98

Ans. A

2. In a code language, COLD is written as ALHY. How will IRON be written in the same language?

- A. GOKI                              B. GPKI  
C. FOKI                              D. GUKI

Ans. A

3. Select the correct alternative to indicate the arrangement of the following phrases in a logical and meaningful order.

1. World
2. Mumbai
3. Gateway of India
4. Asia
5. Maharashtra
6. India

- A. 3, 2, 5, 6, 1, 4  
B. 3, 2, 6, 5, 4, 1  
C. 3, 2, 5, 4, 6, 1  
D. 3, 2, 5, 6, 4, 1

Ans. D

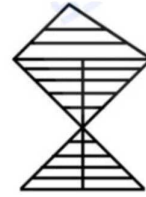
4. Select the figure that will come next in the following figure series.



- A.      B.   
C.      D.

Ans. B

5. How many triangles are there in the figure given below?



- A. 33                                      B. 32  
C. 35                                      D. 34

Ans. A

6. Which two signs should be interchanged to make the given equation correct?

$$14 + 4 \div 5 - 18 \times 2 = 25$$

- A.  $\div$  and +                              B.  $\times$  and  $\div$   
C.  $\times$  and -                              D.  $\times$  and +

Ans. B

7. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

- A. DGMJ                                  B. PSZV  
C. SVBY                                  D. JNTQ

Ans. B

8. Which number will replace the question mark (?) in the following series?

7, 11, ?, 31, 47

- A. 29    B. 55  
C. 5    D. 19

Ans. D

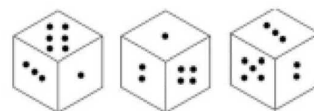
9. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

U \_ R P K Q \_ U K D \_ P K \_ R \_ K D R \_ K \_ R

- A. KQPRQUPQ                          B. KDRRUURQ  
C. KDRRQUPQ                          D. KDRRQPPR

Ans. C

10. Three different positions of the same dice, which has one to six dots on its six faces, are shown below. When six dots are at the bottom then the number of dots on the top will be :



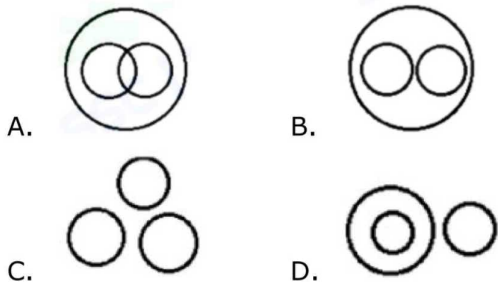
- A. 5    B. 3  
C. 2    D. 4

Ans. C

11. Rishabh is Namita's only brother. Rishabh's wife, Mridu has a brother Sonu. Illena is Namita's only niece. How is Sonu related to Illena ?
- A. Maternal uncle      B. Father  
C. Brother                D. Paternal uncle

Ans. A

12. Select the Venn diagram that best illustrates the relationship between the following classes.  
Sikkim, Manipur, Imphal



Ans. D

13. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.
- A. Shirt                      B. Sandals  
C. Slippers                 D. Shoes

Ans. A

14. Select the term that will come next in the following series  
FBA, IGE, LLI, OQM, ?
- A. RVQ                      B. QVQ  
C. RVP                      D. RUP

Ans. A

15. Select the option figure which contains figure X embedded in it as its part. (Rotation is not allowed)

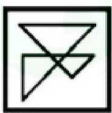
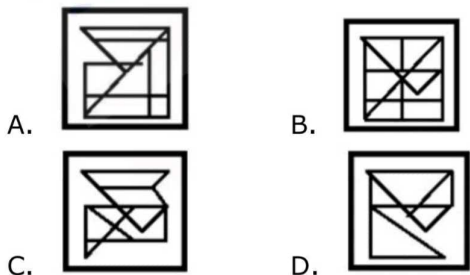


Figure-X



Ans. B

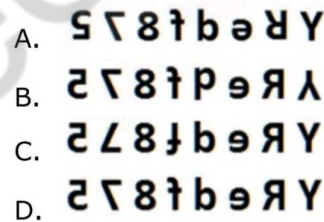
16. In a code language, 'HEDONISM' is written as 'QFGJOUKP'. How will 'PROFITED' be written as in that language?
- A. HQTSEFFVK            B. HQTRFGVK  
C. GSQRFGUK            D. HQTREGVL

Ans. B

17. Two years ago a man was six times as old as his son. In 18 years, he will be twice as old as his son. What are their present ages of the man and his son?
- A. 34 and 9 years  
B. 32 and 7 years  
C. 32 and 13 years  
D. 34 and 7 years

Ans. B

18. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.  
Y R e d f 875



Ans. D

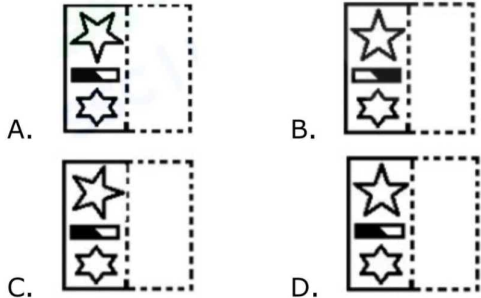
19. Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.  
4 : 49
- A. 8 : 144                      B. 6 : 64  
C. 7 : 100                     D. 5 : 81

Ans. C

20. If 'TRANSFER' is coded as '2018114196518', then how will 'INCLUDED' be coded as in that language?
- A. 91431221454            B. 18231220454  
C. 91331121454            D. 81431222353

Ans. A

21. A figure of transparent sheet with a pattern is given below. Figure out from amongst the four options as to how the pattern would appear when the transparent sheet is folded at the dotted line.



Ans. D

22. Which two numbers should be interchanged in the following equation to make it correct?

$$618 + 37 \times 12 - 703 \div 14 = 767$$

- A. 14 and 37                      B. 618 and 14  
C. 703 and 12                    D. 12 and 37

Ans. A

23. If 'E' is coded as '5' and 'PEN' is coded as '35' then how will 'PAGE' be coded?

- A. 28                                  B. 27  
C. 36                                  D. 29

Ans. D

24. 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.

- Waiter : Serve  
A. Lawyer : Legal  
B. Architect : Fashion  
C. Engineer : Technical  
D. Mechanic : Repair

Ans. D

25. 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. 99                                  B. 97  
C. 89                                  D. 83

Ans. A

### Section : General Awareness

1. Which of the following instruments is used for the visual examination of eardrum?  
A. Phonograph                      B. Polygraph  
C. Otoscope                          D. Optometer

Ans. C

2. The Barabar Caves, the oldest surviving rock-cut in India, mostly belong to which of the following periods?  
A. Chola Dynasty                    B. Gupta Empire  
C. Maurya Empire                    D. Chera Dynasty

Ans. C

3. Which of the following countries was declared as a malaria-free country in May 2019 by World Health Organization?  
A. India                                  B. Nigeria  
C. Madagascar                        D. Argentina

Ans. D

4. Rafael Nadal, one of the top male tennis players in the world hails from which European country?  
A. Spain                                  B. Switzerland  
C. Serbia                                D. Austria

Ans. A

5. What is the minimum age requirement to become a Member of the Legislative Assembly?  
A. 32 years                              B. 42 years  
C. 20 years                              D. 25 years

Ans. D

6. In which city of India would you find the Swami Viveknanda Airport?  
A. Kanyakumari                        B. Raipur  
C. Ranchi                                D. Durgapur

Ans. B

7. Who among the following has the power to promulgate ordinances under Article 123 of the Constitution of India?  
A. The President  
B. The Speaker of the Lok Sabha  
C. The Chairman of the Rajya Sabha  
D. The Attorney-General

Ans. A

8. Which one of the following business groups is associated to Carborundum Universal Limited (CUMI), one of the largest abrasive manufacturing companies in India?  
A. Kirloskar Group

- B. Birla Group
- C. Adani Group
- D. Murugappa Group

Ans. D

9. In May 2019, who among the following was appointed by the UN Secretary-General as the new Force Commander of the United Nations Mission in South Sudan (UNMISS)?

- A. Lieutenant general Frank Kamanzi
- B. Private Ankush Cheema
- C. Lieutenant General Shailesh Tinaikar
- D. Colonel Amit Gupta

Ans. C

10. Which is the largest bone in the human body?

- A. Femur
- B. Incus
- C. Malleus
- D. Stapes

Ans. A

11. Which book among the following won the Pulitzer Prize for Fiction 2019?

- A. The Sympathizer
- B. The Overstory
- C. The Underground Railroad
- D. Less

Ans. B

12. Albert Einstein was awarded the Nobel Prize in Physics in the year \_\_\_\_\_.

- A. 1934
- B. 1921
- C. 1924
- D. 1920

Ans. B

13. Who amongst the following established an institution named 'Kalashram' for imparting training in dance and associated disciplines?

- A. Shambhu Maharaj
- B. Pandit Birju Maharaj
- C. Sitara Devi
- D. Lachhu Maharaj

Ans. B

14. Bugyals are high altitude meadows and pastures in the Himalayan slopes. In which state would you find them most?

- A. Assam
- B. Tamil Nadu
- C. Sikkim
- D. Uttarakhand

Ans. D

15. When is 'International Dance Day' celebrated by the International Theatre Institute (ITI), the main partner for performing arts of UNESCO?

- A. 7<sup>th</sup> June
- B. 29<sup>th</sup> April
- C. 23<sup>rd</sup> March
- D. 8<sup>th</sup> May

Ans. B

16. During the reign of which of the following kings did Chinese traveller Xuanzang visit India?

- A. Harshavardhana
- B. Prabhakara Vardhana
- C. Chandragupta Maurya
- D. Ashoka

Ans. A

17. According to Global Peace Index 2019, which one of the following is the most peaceful country?

- A. India
- B. Indonesia
- C. Bhutan
- D. Iceland

Ans. D

18. In which of the following states is the Kolleru Lake located?

- A. Kerala
- B. Karnataka
- C. Tamil Nadu
- D. Andhra Pradesh

Ans. D

19. Which of the following computers are used in hospitals to measure the heartbeat of patients?

- A. Digital computers
- B. Hybrid computers
- C. mainframe computers
- D. Analog computers

Ans. B

20. Which of the following teams won the UEFA Champions League football trophy at Madrid on 1 June 2019?

- A. Tottenham Hotspur
- B. Manchester United
- C. Liverpool
- D. Real Madrid

Ans. C

21. Sanjhi Art is associated to which of the following states of India?

- A. Uttar Pradesh
- B. Rajasthan
- C. West Bengal
- D. Gujarat

Ans. A



22. In March 2019, the Reserve bank of India bought how many USD billions through long-term forex swap auction in a bid to ease liquidity ahead of elections?
- A. USD 5 billion      B. USD 1 billion  
C. USD 4 billion      D. USD 2 billion

Ans. A

23. With how many states/Union Territories does Uttar Pradesh share its borders?
- A. 7                      B. 8  
C. 9                      D. 6

Ans. C

24. Who among the following created the Electronic Discrete Variable Automatic

Computer (EDVAC) with a memory to hold both, a stored program as well as data?

- A. Thomas H Flowers  
B. Arthur Samuel  
C. Bletchley Park  
D. John von Neumann

Ans. D

25. Where was Khelo India Youth Games 2019 Held?

- A. Pune                      B. Ludhiana  
C. Delhi                      D. Noida

Ans. A

### Section : Quantitative Aptitude

1. A number is increased by 30%, then decreased by 25% and then further increased by 25%. What is the net increase/decrease percent in the number (correct to the nearest integer)?
- A. 22% decrease      B. 22% increase  
C. 21% decrease      D. 21% increase

Ans. B

2. If a 10-digit number  $1200x558y2$  is divisible by 88, then the value of  $(x + y)$  is :
- A. 9                      B. 7  
C. 15                      D. 11

Ans. A

3. 10 years ago, the average age of a family of five members was 38 years. Now, two new members join, whose age difference is 8 years. If the present average age of the family is the same as it was 10 years ago, what is the age (in years) of the younger member?
- A. 15                      B. 9  
C. 10                      D. 17

Ans. B

4. If  $(x - 7)^3 + (x - 8)^3 + (x + 6)^3 - 3(x - 7)(x - 8)(x + 6)$ , then what is the value of  $x$ ?
- A. 6                      B. 8

Ans. D

5. If  $\cos \theta = \frac{2p}{p^2 + 1}$ , then  $\sin \theta$  is equal to :

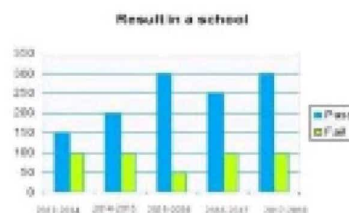
- A.  $\frac{p^2 - 1}{p^2 + 1}$               B.  $\frac{2p}{p^2 - 1}$   
C.  $\frac{p^2 + 1}{p^2 - 1}$               D.  $\frac{2p}{p^2 + 1}$

Ans. A

6. What is the area of a rhombus (in  $\text{cm}^2$ ) whose side is 10 cm and the smaller diagonal is 12 cm?
- A. 120                      B. 192  
C. 96                      D. 50

Ans. C

7. The given Bar Graph presents the results in terms of number of students in a school for the five academic years, 2013-2014 to 2017-2018.



In which year the percentage increase in the number of students is the highest

in comparison so the previous academic year?

- A. 2017-2018      B. 2015-2016  
C. 2016-2017      D. 2014-2015

Ans. D

8. The simplified value of  $5 \text{ of } 8 - 6 + [(27 - 3) \div 6 - 4]$  is :

- A. 114      B. 120  
C. 124      D. 116

Ans. A

9. If  $x - \frac{1}{x} = 10$ , then  $x^3 - \frac{1}{x^3}$  is equal to :

- A. 970      B. 1000  
C. 1030      D. 1100

Ans. C

10. A, B and C can complete a piece of work in 10, 20 and 60 days respectively. Working together they can complete the same work in how many days?

- A. 5      B. 6  
C. 10      D. 8

Ans. B

11. A train covers 360 km of a uniform speed. If the speed had been 10 km/h more, it would have taken 3 hours less for the same journey. What is the speed of the train (in km/h)?

- A. 40      B. 25  
C. 30      D. 50

Ans. C

12. If  $a^2 + b^2 = 88$  and  $ab = 6$ , ( $a > 0$ ,  $b > 0$ ) then what is the value of  $(a^3 + b^3)$  ?

- A. 980      B. 1180  
C. 820      D. 1000

Ans. C

13. In triangle ABC, D and E are two points on the sides AB and AC respectively so that  $DE \parallel BC$  and  $AD/BD = 3/4$ . The ratio of the area of trapezium DECB to the area of  $\Delta ABC$  is :

- A. 49 : 33      B. 49 : 40  
C. 40 : 49      D. 33 : 49

Ans. C

14. ₹ 60000 invested at a certain rate for a certain even number of years, compounded annually, grows to ₹ 63, 654. To how much

amount would it grow if it is invested at the same rate for half the period?

- A. ₹ 61800      B. ₹ 61809  
C. ₹ 61675      D. ₹ 61827

Ans. A

15. Let  $\Delta ABC \sim \Delta QPR$  and  $\frac{\text{ar}(\Delta ABC)}{\text{ar}(\Delta PQR)} = \frac{9}{4}$ . If

$AB = 9$  cm,  $BC = 6$  cm and  $AC = 12$  cm then QR is equal to :

- A. 8 cm      B. 12 cm  
C. 9 cm      D. 16 cm

Ans. A

16. There was 29% off on bags. A lady bought a bag and got 12% discount for paying in cash. She paid ₹ 312.40. What is the price tag (in ₹) on the bag?

- A. 600      B. 625  
C. 450      D. 500

Ans. D

17. A circle is inscribed in a triangle ABC. It touches sides AB, BC and AC at the points P, Q and R respectively. If  $BP = 6.5$  cm,  $CQ = 4.5$  cm and  $AR = 5.5$  cm, then the perimeter (in cm) of the triangle  $\Delta ABC$  is :

- A. 16.5      B. 66  
C. 33      D. 22

Ans. C

18. A man bought 2 articles for ₹ 2650 each. He sold one article at 10% profit and another at 5% profit. The total profit percentage he earned is :

- A. 8%      B. 8.5%  
C. 7.5%      D. 10%

Ans. C

19. In a  $\Delta ABC$ , the bisectors of  $\angle B$  and  $\angle C$  meet at point O within the triangle. If  $\angle A$  is given, then which among the given options is true?

- A.  $\angle BOC = 90^\circ + (\angle A / 2)$   
B.  $\angle BOC = 180^\circ - (\angle A / 2)$   
C.  $\angle BOC = 90^\circ - (\angle A / 2)$   
D.  $\angle BOC = 180^\circ - (\angle A)$

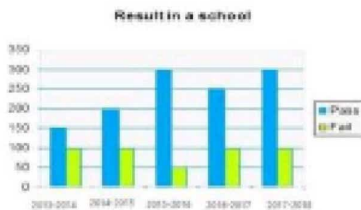
Ans. A

20. If  $\tan x = \cot (65^\circ + 9x)$ , then what is the value of  $x$ ?

- A.  $2.5^\circ$                       B.  $1.0^\circ$   
 C.  $2.0^\circ$                       D.  $1.5^\circ$

Ans. A

21. The given Bar Graph presents the results in terms of number of students in a school for the five academic years, 2013-2014 to 2017-2018.

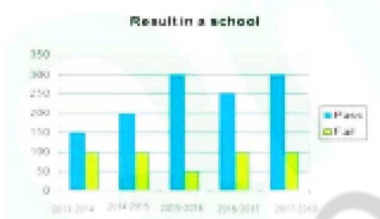


What is the average of failed students in five academic years?

- A. 75                              B. 50  
 C. 100                            D. 90

Ans. D

22. The given Bar Graph presents the results in terms of number of students in a school for the five academic years, 2013-2014 to 2017-2018.



The difference between the number of students passed and those who failed is the highest in which academic year?

- A. 2015-2016                      B. 2014-2015

### Section : English Language

1. Select the most appropriate antonym of the given word.

URBAN

- A. Modern                      B. Alien  
 C. Rural                          D. Casual

Ans. C

2. Select the most appropriate passive form of the given sentence

How much monthly rent did you pay for the house?

- A. How much monthly rent was paid for the house

- C. 2017-2018                      D. 2016-2017

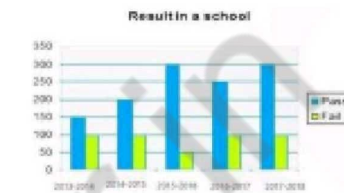
Ans. A

23. If  $x^4 + x^{-4} = 2207$ , ( $x > 0$ ) then the value of  $x + x^{-1}$  is :

- A. 19                              B. 7  
 C. 11                              D. 9

Ans. B

24. The given Bar Graph presents the results in terms of number of students in a school for the five academic years, 2013-2014 to 2017-2018.



What is the approximate percentage of students passed during five academic years (correct to the nearest integer)?

- A. 72%                              B. 78%  
 C. 79%                              D. 73%

Ans. D

25. Two circles of radii 5 cm and 8 cm intersect at the points A and B. If  $AB = 8$  cm and the distance between the centres of two circles is  $x$  cm, then the value of  $x$  (to the closest integer) is :

- A. 8                                  B. 10  
 C. 9                                  D. 11

Ans. B

- B. How much monthly rent is being paid for the house?  
 C. How much monthly rent was being paid for the house?  
 D. How much monthly rent is paid for the house?

Ans. A

3. Select the most appropriate indirect form of the given sentence.

She said, "Deepak slipped when he was trying to skate."

- A. She said that Deepak slipped when he

- B. She said that Deepak was slipping when he was trying to skate
- C. She said that Deepak has slipped when he was trying to skate
- D. She said that Deepak has slipped when he was trying to skate

Ans. D

4. Fill in the blank with the most appropriate word.

She kept her clothes neatly arranged in the \_\_\_\_\_.

- A. Warehouse                      B. Wardrobe
- C. Larder                            D. Godown

Ans. B

5. Identify the segment which contains the grammatical error.

The soldiers has no choice when to obey the commander.

- A. When to obey
- B. Has no choice
- C. The Soldiers
- D. The Commander

Ans. A

6. Select the correctly spelt word

- A. General                      B. Guilty
- C. Genuine                      D. Generus

Ans. C

7. Select the most appropriate meaning of the given idiom

HEAD IN THE CLOUDS

- A. To daydream                  B. To be very tall
- C. To be very lazy                D. To feel giddy

Ans. A

8. Select the most appropriate synonym of the given word.

CANDID

- A. Sweet                            B. Frank
- C. Arrogant                        D. Cruel

Ans. B

9. Identify the segment which contains the grammatical error.

The number of visitors at the fair were much larger than expected.

- A. The number of
- B. Than expected
- C. Visitors at the fair
- D. Were much larger

Ans. D

10. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- (A) They have no mind of their own
- (B) It is misleading to imagine that computers can think like humans
- (C) However, they make it possible for people to accumulate thoughts
- (D) They cannot do so

- A. BDAC                            B. BACD
- C. ACBD                            D. ABCD

Ans. A

11. Select the most appropriate synonym of the given word

SANE

- A. Foolish                            B. Crazy
- C. Sensitive                        D. Sensible

Ans. D

12. Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.

Those who have not received the invitation **he should leave.**

- A. They should leave
- B. He should be leaving
- C. No substitution
- D. Should leave

Ans. D

13. Select the most appropriate antonym of the given word.

MEAGRE

- A. Common                            B. Scarce
- C. Plentiful                            D. minor

Ans. C

14. Select the most appropriate word for the group of words

A remedy for all diseases

- A. Panacea                            B. Antidote
- C. Antibiotic                        D. Patent

Ans. A

15. Fill in the blank with the most appropriate word.

The old man has lost his memory. He is suffering from \_\_\_\_\_.

- A. Acacia                              B. Anaesthesia



- C. Amnesia                      D. Ambrosia

Ans. C

16. Select the wrongly spelt word.

- A. Attendance                  B. Affluence  
C. Alliance                      D. Affilate

Ans. D

17. Select the most appropriate meaning of the given idiom.

GREEN THUMB

- A. To have talent in gardening  
B. To be envious  
C. To be angry  
D. To have talent in painting

Ans. A

**Comprehension :**

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.

Agatha Christie is a well known writer of mystery books. The (1)\_\_\_ in each of her stories involves everyday characters (2)\_\_\_ we can relate to. This makes her stories more (3)\_\_\_ because whatever she writes about can happen (4)\_\_\_ any of us. What makes her stories more interesting (5)\_\_\_ the twist at the end.

18. Select the most appropriate option to fill in the blank number 1

- A. Style                          B. Plot  
C. Title                          D. Ending

Ans. B

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19. Select the most appropriate option to fill in

- A. Whose                          B. These  
C. Those                          D. that

Ans. D

**Comprehension :**

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.

Agatha Christie is a well known writer of mystery books. The (1)\_\_\_ in each of her stories involves everyday characters (2)\_\_\_ we can relate to. This makes her stories more (3)\_\_\_ because whatever she writes about can happen (4)\_\_\_ any of us. What makes her stories more interesting (5)\_\_\_ the twist at the end.

20. Select the most appropriate option to fill in the blank number 3

- A. Sarcastic                      B. Realistic  
C. Artistic                        D. Exotic

Ans. B

**Comprehension :**

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.

Agatha Christie is a well known writer of mystery books. The (1)\_\_\_ in each of her stories involves everyday characters (2)\_\_\_ we can relate to. This makes her stories more (3)\_\_\_ because whatever she writes about can happen (4)\_\_\_ any of us. What makes her stories more interesting (5)\_\_\_ the twist at the end.

21. Select the most appropriate option to fill in the blank number 4

- A. to                                  B. on  
C. by                                D. from

Ans. A

**Comprehension :**

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her stories involves everyday characters (2)\_\_\_\_\_ we can relate to. This makes her stories more (3)\_\_\_\_\_ because whatever she writes about can happen (4)\_\_\_\_\_ any of us. What makes her stories more interesting (5)\_\_\_\_\_ the twist at the end.

22. Select the most appropriate option to fill in the blank number 5

- A. Was                      B. Were  
C. Are                      D. Is

23. Given below are four jumbled sentences. Out of the given options pick one that gives their correct order.

- (A) Children are the most adversely affected  
(B) Their eyesight goes weak from their very childhood  
(C) Watching television continuously is very harmful for the eyes  
(D) This debilitating effect on eyes results in severe headaches as well

- A. ABDC                      B. CABD  
C. CBDA                      D. ACBD

Ans. B

24. Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.

No other man in the city is as rich than **he** is.

- A. So much rich as he  
B. No substitution  
C. As rich as he  
D. More richer than he

Ans. C

25. Select the most appropriate word for the group of words

That which cannot be heard

- A. Inaudible  
B. Invisible  
C. Incurable  
D. Incredible

Ans. A