General Awareness

Q 1. Who among the following is the author of the book 'A Passage to England'?
(A) Nirad C Chaudhuri
(B) Salman Rushdie
(C) Khushwant Singh
(D) V S Naipal
Ans(A)

Q 2. In which year did Independent India win its first Olympic Gold in the game of hockey?
(A) 1952
(B) 1960
(C) 1948
(D) 1956
Ans(C)

Q 3. How many members are present in the Sri Lankan parliament?
(A) 210
(B) 215
(C) 225
(D) 232
Ans(C)

Q 4. An Economic condition when there is one buyer and many sellers is called_____.
(A) Oligopoly
(B) Perfect Competition
(C) Monopoly
(D) Monopsony
Ans(D)

Q 5. Who among the following was the first Indian origin recipient of the prestigious Pulitzer Prize?
(A) Gobind Behari lal
(B) Siddhartha Mukherjee
(C) Geeta Anand
(D) Jhumpa Lahiri
Ans(A)

Q 6. Which of the following is a vestigial organ?
(A) Heart
(B) Appendix
(C) Kidney
(D) Lungs
Ans(B)

Q 7.Silent Valley National park is located in the Indian state of___.?
(A) West Bengal
(B) Madhya Pradesh
(C) Uttarakhand
(D) Kerala
Ans(D)

Q 8. The Explosion of crackers is an example of_____.
(A) Decomposition
(B) Evaporation
(C) Precipitation
(D) Combustion
And(D)

Q 9. What is the popular name of 'Ascorbic Acid'?
(A) Vitamin K
(B) Vitamin A
(C) Vitamin B12
(D) Vitamin C
Ans.(D)

Q 10. Which of the following Indian islands lies in the Bay of Bengal?
(A) Diu
(B) Andaman and Nicobar
(C) Daman
(D) Lakshadweep
Ans(B)

Q 11. Who among the following became the first woman to win the Abel Prize 2019?
(A) Karen Uhlenbeck
(B) Maryam Mizakhani
(C) Julia Robinson
(D) Sophie Germain
Ans(A)

Q 12. Who authored 'A Century is not Enough' in 2018?
(A) Virat Kohli
(B) MS Dhoni
(C) Sourav Ganguly
(D) Sachin Tendulkar
And(C)

Q 13. Viyahula Giddha' is a popular folk dance performed during marriages in the Indian state of____.
(A) Gujarat
(B) Jharkhand
(C) Punjab
(D) Odisha
Ans(C)

Q 14. Mahatma Gandhi formed the Natal India Congress in the year____.

1

(A) 1863   (B) 1854
(C) 1894   (D) 1874
Ans(C)

Q 15. Which one of the following is the brightest star in the Orion constellation?
(A) Rigel   (B) Alnilam
(C) Betelgeuse   (D) Eta Orionis
Ans(A)

Q 16. Of which Indian state is 'Gamocha' a cultural symbol?
(A) Rajasthan   (B) Haryana
(C) Assam   (D) Kerala
Ans(C)

Q 17. What is the geographic name given to a deep and narrow valley consisting of steep sides created by weathering and erosion by rivers, wind, rain and tectonic activity?
(A) Ridge   (B) Basin
(C) Buttes   (D) Canyon
Ans(D)

Q 18. Who became the first Indian player to represent India at the Wimbledon Tennis championship of Independent India?
(A) Ramanathan Krishnan
(B) Ramesh Krishnan
(C) Vijay Amritraj
(D) Leander Paes
Ans(A)

Q 19. Which of the following countries has the largest parliament in the world?
(A) UK
(B) China
(C) Japan
(D) India
Ans(B)

Q 20. The Bangladesh Liberation War ended on ____.
(A) 14th November 1972
(B) 17th October 1971
(C) 2nd October 1974
(D) 16th December 1971

Ans(D)

Q 21. What is the name given to the graph that shows al the combinations of two commodities that a consumer can afford at given market prices and within the particular income level in economic terms?
(A) Demand Curve
(B) Budget Line
(C) Supply Curve
(D) Isocost Line
Ans(B)

Q 22. Who among the following was the first president of Pakistan?
(A) Yahya Khan
(B) Zulfikar Ali Bhutto
(C) Ayub Khan
(D) Iskander Mirza
Ans(D)

Q 23. The First Anglo-Burmese War ended with the signing of the___.
(A) Treaty of Yandabo
(B) Treaty of Purander
(C) Treaty of Salbai
(D) Treaty of Titalia
Ans(A)

Q 24. World Global Recycling Day was observed on____ in 2019.
(A) 2nd January
(B) 10th February
(C) 16th February
(D) 18th March
Ans(D)

Q 25. What is the dominant chemical present in vinegar?
(A) Formic Acid
(B) Malic Acid
(C) Sulphuric Acid
(D) Ethanoic Acid
Ans(D)

General English

Q 26. Select the word which means the same as the group of words given.
Something which cannot be understood
(A) infallible   (B) illegible
(C) incomprehensible   (D) inexplicable
Ans(C)

Q 27. Select the correctly spelt word.
(A) concentious   (B) conscientious
(c) conscientious   (d) consenteous
Ans(c)

Q 28. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement. Biologists believe that increased human activity means an accelerated rate of change in habitat for all creatures of the world.
(A) human activity meant a accelerated rate in change
(B) No improvement
(C) Human activity is meaning an accelerated rate of change
(D) Human activities mean an accelerated rate from change
Ans(B)

Q 29 .Select the most appropriate synonym of the given word.
VINDICTIVE
(a) revengeful   (b) forceful
(c) helpful   (d) watchful
Ans(a)

Q 30. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.
A reason why there are so much misconception on dyslexia could be the sheer invisibility of the disorder.
(a) there are so much misconceptions against dyslexia
(b) there are so many misconception around dyslexia
(c) No improvement
(d) there are so many misconceptions about dyslexia
Ans(d)

Q 31. Select the correctly spelt word.
(a) challange
(b) challenge
(c) chalenge
(d) challeng
Ans(b)

Q 32. Select the most appropriate antonym of the given word.
ACCEPT
(a) release   (b) reject
(c) obtain   (d) acquire
Ans(b)

3

Q 33. Given below are four jumbled sentences. Select the option that gives their correct order.

(A) Here, the picture perfect French Quarter and heritage laden Tamil streets blend into one another.

(B) The conflict of coexistence is evident in many metropolitan cities.

(C) The old and new, like two different worlds, surviving side by side yet never crossing that chasm.

(D) There is a place though-Puducherry, where contrasts are celebrated like nowhere else.

1.BACD

2.DCBA

3.BCDA

4.CDAB

Ans(3)

Q34 .Select the most appropriate meaning of the underlined idiom in the given sentence.

Coming from an affluent family, she found herself a square peg in a round hole when she married a poor farmer and moved to a small village.

(a) A misfit in the environment

(b) in a favourable situation

(c) in a financial crisis

(d) unhappy and regretful

Ans(a)

Q 35. Select the correct passive form of the given sentence.

He is clicking good pictures with his new camera.

(a) Good pictures are clicked with his new camera.

(b) Good pictures were clicked with his new camera.

(c) Good pictures are being clicked with his new camera.

(d) Good pictures have been clicked with his new camera.

Ans(d)

Q 36. In the sentence identify the segment which contains the grammatical error.

No sooner did he see the tiger when he ran as fast as he could.

(a) no sooner did

(b) as fast as he could

(c) he see the tiger

(d) when he ran

Ans(d)

Q 37. Given below are four jumbled sentences. Select the option that gives their correct order.

A. European cloth manufacturers therefore had to depend on a plant called woad to make dyes.

B. However, cloth dyers preferred indigo which produced a rich blue colour.

C. Being a plant of the temperate zones, woad was easily available in Europe.

D. Indian indigo was very expensive and only small quantities reached the European markets.

1.DACB

2.CBDA

3.DCAB

4.ACBD

Ans.DACB

4

Q.38 Select the word which means the same as the group of words given.

Something which is fit to be eaten

1. edible
2. unpalatable
3. delicious
4. tasty

Correct Answer : edible

Q.39 Select the most appropriate option to fill in the blank.

People of the older generation _____ over the good old school days.

1. remind
2. retribute
3. remember
4. reminisce

Correct Answer : reminisce

Q 40. In the sentence identify the segment which contains the grammatical error.

The match is about to begin since the captain as well as the team are on the field.

1.The match is about to begin
2.Since the captain
3.are on the field
4.as well as the team

Ans.3

Q.41 Select the most appropriate meaning of the underlined idiom in the given sentence.

When his envious competitor extended a hand of friendship, he smelt a rat.

1. felt very pleased
2. became complaisant
3. detected something wrong
4. behaved arrogantly

Correct Answer : felt very pleased

Q.42 Select the most appropriate antonym of the given word.

AFFINITY

1. empathy
2. attraction
3. preference
4. aversion

Correct Answer : aversion

Q.43 Select the most appropriate synonym of the given word.

PENSIVE

1. reflective
2. spiteful
3. spontaneous
4. tragic

Correct Answer : spontaneous

Q.44 Select the correct active form of the given sentence.

Let the bell be rung every forty minutes.

1. The bell ought to be rung every forty minutes

2. Let the bell keep ringing every forty minutes.

3. Ring the bell every forty minutes.

4. The bell should be rung every forty minutes

Correct Answer : Ring the bell every forty minutes.

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.

Telling someone something that you admire about them can be called a random act (1)_____ kindness. It takes almost no (2)_____, yet it pays enormous dividends. Many people (3)_____ their entire lives wishing that others would (4)_____ them. Expectations are more from family and friends, (5)_____, even compliments from strangers feel good if they are genuine.

Q.45 Select the most appropriate option to fill in blank No.1.

1. in

2. with

3. from

4. of

Correct Answer : of

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.

Telling someone something that you admire about them can be called a random act (1)_____ kindness. It takes almost no (2)_____, yet it pays enormous dividends. Many people (3)_____ their entire lives wishing that others would (4)_____ them. Expectations are more from family and friends, (5)_____, even compliments from strangers feel good if they are genuine.

Q.46 Select the most appropriate option to fill in blank No.2.

1. effort

2. attempt

3. work

4. venture

Correct Answer : effort

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.

Telling someone something that you admire about them can be called a random act (1)_____ kindness. It takes almost no (2)_____, yet it pays enormous dividends. Many people (3)_____ their entire lives wishing that others would (4)_____ them. Expectations are more from family and friends, (5)_____, even compliments from strangers feel good if they are genuine.

Q.47 Select the most appropriate option to fill in blank No.3.

1. spend

2. spent

3. have been spending

4. had spent

6

Correct Answer : spend

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.
Telling someone something that you admire about them can be called a random act (1)_____ kindness. It takes almost no (2)_____, yet it pays enormous dividends. Many people (3)_____ their entire lives wishing that others would (4)_____ them. Expectations are more from family and friends, (5)_____, even compliments from strangers feel good if they are genuine.
Q.48 Select the most appropriate option to fill in blank No.4.
1. admit
2. acknowledge
3. confess
4. concede
Correct Answer : acknowledge

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.
Telling someone something that you admire about them can be called a random act (1)_____ kindness. It takes almost no (2)_____, yet it pays enormous dividends. Many people (3)_____ their entire lives wishing that others would (4)_____ them. Expectations are more from family and friends, (5)_____, even compliments from strangers feel good if they are genuine.
Q.49 Select the most appropriate option to fill in blank No.5.
1. so
2. unless
3. and
4. however
Correct Answer : however

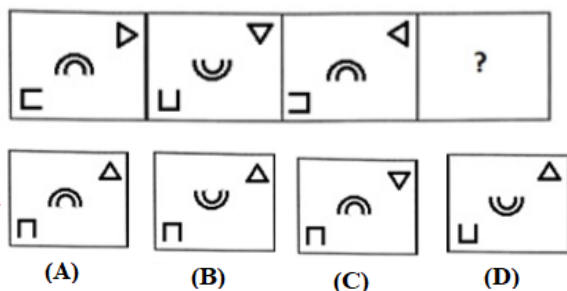Q.50 Select the most appropriate option to fill in the blank.
Technology can be _____ and people seem to be more attached to screens than ever before.
1. infatuated
2. contagious
3. addictive
4. incorrigible
Correct Answer : addictive

Reasoning

Q 51.Select the figure that will come next in the following figure series.

(A)   (B)   (C)   (D)

Ans(b)

Q 52. Select the option that is related to the third number in the same way as the second number is related to the first number.

12 : 68 :: 21 :?

(a) 79

(b) 49

(c) 119

(d) 117

Ans(c)

Q 53. 'China' is related to 'Yuan' in the same way as 'Japan' is related to '____'.

(a) Lira

(b) Rand

(c) Sushi

(d) Yen

Ans(d)

Q 54. Which two signs should be interchanged in the following equation to make it correct?

$8 \times 2 \div 5 - 16 \div 4 = 14$

(a) $\div$ and $\times$

(b) $\times$ and $-$

(c) $\div$ and $+$

(d) $\times$ and $\div$

Ans(d)

Q 55.Three of the following four number-pairs are alike in a certain way and one is different. Pick the odd one out.

(a) 56:49

(b) 104:91

(c) 32:28

(d) 64:54

Ans(d)

Q 56.Find the missing number from the below options.

19	78	20
25	144	47
16	?	13

(a) 58 (b) 76
(c) 29 (d) 96
Ans(a)

Q 57.Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

Ans(c)

Q 58. Select the figure in which the given figure is embedded.

Ans(a)

Q 59. Nisha and Deepak are a married couple and have a daughter named Tanya. Currently, Deepak is 5 years older than Nisha and is thrice the age of Tanya. If Tanya is 10 years old, what was her father's age at the time of his daughter's birth?
(a) 35 years
(b) 25 years
(c) 30 years
(d) 20 years
Ans(b)

Q 60. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
(a) FILO (b) QTWZ
(c) KNQT (d) POWZ
Ans(d)

Q 61. Find the missing number from the below options.

12	7	95
14	8	132
16	9	?

(a) 154   (b) 164

(c) 185   (d) 175

Ans(d)

Q 62. If EAGER is coded as 51759 then how will CADET be coded?

(a) 34157   (b) 31450

(c) 31457   (d) 31547

Ans(c)

Q 63. Select the option that will come next in the following series.
BOP, DPN, FQL, HRJ, ?
(a) ISH   (b) JSH
(c) ITI   (d) JSI
Ans(b)

Q 64. Select the word pair in which the two words are related in the same way as the two words in the following word-pair.

Season : Winter

(a) Month : April   (b) Year :Century

(c) Summer: Autumn   (d) Week : Calendar

Ans(a)

Q 65. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

(a) Expensive   (b) Costly

(c) Valuable   (d) Big

Ans(d)

Q66. Arrange the following words in a logical and meaningful order.
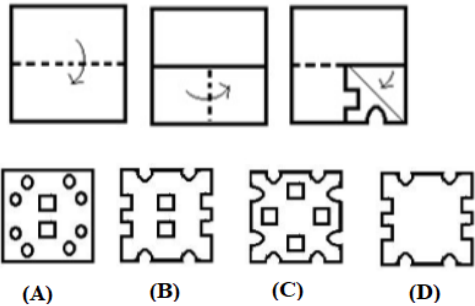
1. Egypt

2. Africa

3. Great Pyramid

4. World

5. Giza

10

(a) 5, 3, 1, 2, 4

(b) 5, 3, 1, 4, 2

(c) 3, 5, 2, 1, 4

(d) 3, 5, 1, 2, 4

Ans(d)

Q 67. A square paper is folded and cut as shown below. How will it appear when unfolded?

(A)   (B)   (C)   (D)

Ans(c)

Q 68. Select the term that will come next in the following series.

3, 4, 5, 6 ,9 , 10, 11, 12, 15 ,?

(a) 16   (b) 14

(c) 18   (d) 17

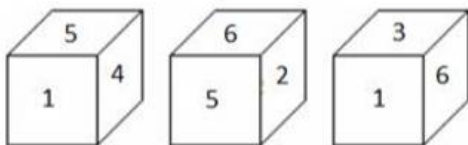Ans(a)

Q 69. In a code language, COMPUTER is written as IVGFKNLX. How will TELEPHONE be written in that language?

(a) VMLSKUOVG

(b) VMLSKVOVG

(c) VMNSKVOVG

(d) GVOVKSLMV

Ans (b)

Q 70. Three different positions of a dice are shown below. Which number appears on the face opposite number 3?

(a) 2   (b) 5

(c) 4   (d) 6

11

Ans(b)

Q 71.Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some teachers are philosophers.

Some philosophers are writes.

Conclusions:

I. Some writers are teachers.

II. No writer is a teacher.

(a) Only conclusion II follows

(b) Either conclusion I or II follows

(c) Only conclusion I follows

(d) Neither conclusion I nor II follows

Ans(b)

Q 72. Saksham introduced Nidhi to his friend, "She is the daughter of the only son of my father's wife." How is Saksham related to Nidhi?

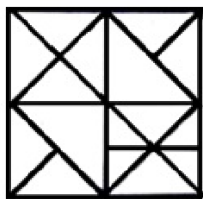(a) Cousin   (b) Father

(c) Brother   (d) Son

Ans(b)

Q 73. How many triangles are there in the figure.

(a) 34   (b) 24

(c) 36   (d) 32

Ans(a)

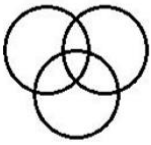Q 74.Select the Venn diagram that best represents the relationship among the given set of classes.

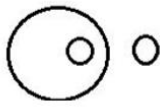Students, Teachers, School

Ans(b)

Q 75. Which letter will replace the question mark(?) in the following series?

A , B, E, J, Q ,?

(a) A   (b) X

(c) Y   (d) Z

Ans(d)

Mathematics

Q 76. निम्नलिखित तालिका में विभिन्न कॉलेजों में विधार्थियों की संख्या के प्रतिशत और लड़कों एवं लड़कियों के अनुपात को दर्शाया गया है। विधार्थियों की कुल संख्या 1,800 है।

कॉलेज	%विद्यार्थी	लड़के : लड़कियां
A	20	4 : 5
B	18	1 : 2
C	14	4 : 3
D	22	6 : 5
E	10	2 : 3
F	16	9 : 7

यदि 10 प्रतिशत लड़कियों को कॉलेज **A** से कॉलेज **E** में स्थानांतरित कर दिया जाता है तो कॉलेज **E** में लड़कियों की प्रतिशतता में कितनी वृद्धि होगी?

(A) 4.2 % (B) 4.4 %

(c) 4.6% (d) 4%

Ans(d)

Q 77. निम्नलिखित तालिका में विभिन्न कॉलेजों में विधार्थियों की संख्या के प्रतिशत और लड़कों एवं लड़कियों के अनुपात को दर्शाया गया है। विधार्थियों की कुल संख्या 1,800 है।

कॉलेज	%विद्यार्थी	लड़के : लड़कियां
A	20	4 : 5
B	18	1 : 2
C	14	4 : 3
D	22	6 : 5
E	10	2 : 3
F	16	9 : 7

कॉलेज **D, E** और **F** में लड़कियों की कुल संख्या का प्रतिशतत कितना है?

(a) 48.5% (b) 47.9%

(c) 48.1% (d) 48.3%

Ans(b)

Q 78. यदि o केन्द्र वाले वृत्त का व्यास **AB** है और **CD** इस तरह की जीवा है जिससे **ABCD** समलंब बनता है। यदि $\angle BAC = 15°$है। यदि $\angle CAD$ किसके बराबर होगा?

(a) 60° (b) 30°

(c) 75° (d) 45°

Ans(a)

Q 79. यदि $x + \frac{1}{x} = \sqrt{5}$ है, तो $x^3 + \frac{1}{x^2}$ बराबर है:

(A) $3\sqrt{5}$ (B) $5\sqrt{5}$

(C) $2\sqrt{5}$ (D) $4\sqrt{5}$

Ans(C)

Q 80. जब $2sin^2\theta = 3cos\theta$ तथा $0 \le \theta \le 90°$ तो θ =?

(A) 45°   (B) 30°

(C) 90°   (D) 60°

Ans(D)

Q 81. If a:b=4:5 then the value of (2a+3b) :(3a+2b)

(a) 10:9   (b) 22: 23

(c) 9: 10   (d) 23: 22

Ans(d)

Q 82. किसी कक्षा में 50 विधार्थियों के औसत अंक 64 रहा। यदि दो विधार्थियों के अंक 83 और 24 के स्थान पर गलती से क्रमशः 38 और 42 दर्ज हो गए है, तो सही औसत क्या होगी?

(A) 61.86   (B) 61.24

(C) 62.32   (D) 64.54

Ans(d)

Q 83. The value of 3.8 – (4.2÷0.7×3)+5×2÷0.5 is

(A) 5.8   (B) 18.4

(C) 15.6   (D) 21.8

Ans(a)

Q 84. निम्नलिखित तालिका में विभिन्न कॉलेजों में विधार्थियों की संख्या के प्रतिशत और लड़कों एवं लड़कियों के अनुपात को दर्शाया गया है। विधार्थियों की कुल संख्या 1,800 है।

कॉलेज	%विद्यार्थी	लड़के : लड़कियां
A	20	4 : 5
B	18	1 : 2
C	14	4 : 3
D	22	6 : 5
E	10	2 : 3
F	16	9 : 7

कॉलेज **A** और **B** में लड़को और लड़कियों की कुल संख्या का अनुपात क्या है?

(A) 45:71   (B) 43:67

(C) 37:52   (D) 67:104

Ans(D)

Q 85. ∆ABC में AD माध्यिका है। AD पर G पर इस तरह से बिंदु है कि AG:GD=2:1 है तो ar(ΔABG:ΔABC) किसके बराबर होगा?

(A) 1:4   (B) 1:5

(C) 1:3   (D) 1:6

Ans(c)

Q 86.किसी वस्तु को 15 प्रतिशत और 10 प्रतिशत क्रमिक छुट के बाद 642.60 में बेचा जाता है। वस्तु का अंकित मूल्य क्या है?

(A) Rs 800

(B) Rs 820

(C) Rs 840

(D) Rs 880

Ans(c)

Q 87. निम्नलिखित तालिका में विभिन्न कॉलेजों में विधार्थियों की संख्या के प्रतिशत और लड़कों एवं लड़कियों के अनुपात को दर्शाया गया है विधार्थियों की कुल संख्या 1800 है।

कॉलेज	%विद्यार्थी	लड़के : लड़कियां
A	20	4 : 5
B	18	1 : 2
C	14	4 : 3
D	22	6 : 5
E	10	2 : 3
F	16	9 : 7

लड़के और लड़कियों की कुल संख्या के बीच अनुपात का प्रतिशत किस कॉलेज में सबसे कम हैं?

(A) A

(B) C

(C) D

(D) E

Ans(C)

Q 88. यदि चीनी के मूल्य में 18 प्रतिशत की वृद्धि हो जाती है और कोई व्यक्ति अपने खर्च में केवल 12 प्रतिशत की ही वृद्धि करना चाहता है तो उसे अपनी खपत में कितने प्रतिशत की कमी करनी होगी? (दशमलव के एक स्थान तक सही)

(A) 6%

(B) 5.1%

(C) 5.3%

(D) 5.6%

Ans(B)

Q 89. If $(3x - 1)^3 + (4x - 3)^3 + (2x + 1)^3 = 3(3x - 1)(4x - 3)(2x + 1)$ और $x \neq \frac{1}{3}$ है तो $x =$?

(A) $\frac{1}{4}$

(B) $\frac{1}{2}$

(C) 1

(D) 2

Ans(D)

Q 90. रूपये x की एक राशि पर 9 प्रतिशत की दर से दो वर्ष के लिए चक्रवृद्धि ब्याज और साधारण ब्याज का अंतर 20.25 रूपये है। तो x का मान क्या होगा?

(A) 2400

(B) 2200

(C) 2800

(D) 2500

Ans(D)

Q 91 .$sin^2 60° - cos^2 45° + \sec 60° + Cos^2 40° + cos^2 50°$ का मान है?

(a) $\frac{7}{2}$

(b) $\frac{9}{14}$

(c) $\frac{11}{4}$ (d) $\frac{13}{4}$

Ans(d)

Q 92. एक रेलगाड़ी बिना रूके 70 किलोमीटर/घंटे की औसत गति से और रूकने के साथ 56 किलोमीटर/घंटे की औसत गति से चलती है। रेलगाड़ी, औसतन प्रति घंटा कितने मिनट रुकती है?

(A) 14   (B) 12

(C) 16   (D) 15

Ans(b)

Q 93. एक गोले के व्यास को 140 प्रतिशत अधिक कर दिया गया है। उसका आयतन कितने प्रतिशत अधिक हो जाएगा?

(A) 1282.4%   (B) 174.4%

(C) 1382.4%   (D) 274.4%

Ans(A)

Q 94. यदि छह–अंकों की संख्या $6x2904$, संख्या 88 से विभाज्य है तो x का मान होगाः

(A) 8   (B) 5

(C) 6   (D) 7

Ans(C)

Q 95. दो वस्तुओं में से प्रत्येक को 10,384 की कीमत पर बेचा जाता है। उनमें से एक वस्तु पर विक्रेता को 18 प्रतिशत लाभ होता है और दूसरी वस्तु पर 12 प्रतिशत की हानि होती है। विक्रेता को कुल मिलाकर कितने रूपए का लाभ या हानि हुई?

(A) 178 हानि   (B) 168 हानि

(C) 178 लाभ   (D) 168 लाभ

Ans(D)

Q 96. यदि $a + b + c = 11$ और $ab + bc + ca = 38$ है तो $a^3 + b^3 + c^3 - 3abc$ बराबर है:

(A) 44   (B) 66

(C) 77   (D) 55

Ans(C)

Q 97. ∆ABC की भुजाएं **AB=16 cm, AC=63 cm, BC=65 cm** हैं। A से भुजा BC के मध्य बिंदु M तक एक सरल रेखा **AM** खींची जाती है। **AM** की लम्बाई बराबर है:

(A) 24.5cm   (B) 23.5 cm

(C) 32.5 cm   (D) 31.5 cm

Ans(C)

Q 98. यदि $x - 5\sqrt{x} - 1 = 0$ है, तो $x^2 + \frac{1}{x^2}$ बराबर है:

(A) 727   (B) 731

(C) 729   (D) 625

Ans(A)

Q 99. यदि $tan\theta = \frac{3}{4}$ है, तो $\frac{4sin\theta - cos\theta}{4sin\theta + cos\theta}$ किसके बराबर है?

(A) $\frac{1}{4}$ (B) $\frac{3}{5}$

(C) $\frac{1}{2}$ (D) $\frac{2}{5}$

Ans(C)

Q 100. $\Delta ABC \sim \Delta EDF$ और $AB = 5cm, BC = 8cm,$ तथा $AC = 10cm$ है। यदि $ar(\Delta ABC):ar(\Delta DEF)$=9:4 है,तो DF किसके बराबर होगा?

(A) $\frac{16}{3}$ cm   (B) $\frac{20}{3}$ cm

(C) $\frac{32}{9}$ cm   (D) $\frac{10}{3}$ cm

Ans(A)