

AAI Junior Executive Sample Paper

Q1. Looking at a picture of a woman Vineeta said, "She is the wife of my father's brother's father." How is the woman in the picture related to Vineeta?

- (a) Father's sister
- (b) Mother-in-law
- (c) Mother
- (d) Father's mother

Q2. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

MGX : VPG :: TZC : CIL :: HPX : ?

- (a) PXF
- (b) QZG
- (c) RZG
- (d) QYG

Q3. Which option represents the correct order of the given words as they would appear in an English dictionary ?

- 1. Greed
 - 2. Green
 - 3. Grown
 - 4. Grip
 - 5. Granite
- (a) 5,2,1,4,3
 - (b) 5,4,1,2,3
 - (c) 5,1,2,4,3
 - (d) 5,1,4,3,2

Q4. Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

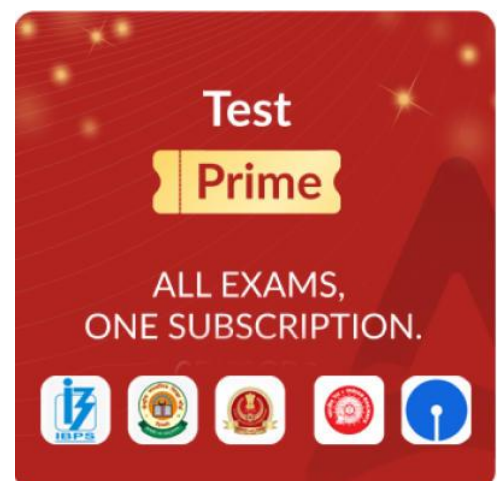
6 : 646 :: 5 : ? :: 4 : 190

- (a) 373
- (b) 377
- (c) 337
- (d) 376

Q5. Select the number from among the given options that can replace the question mark (?) in the following series.


80, 73, 64, 53, 40, ?

- (a) 19
- (b) 25
- (c) 33
- (d) 23



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Q6. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

$$\left[\left(\frac{7}{9}\right), \left(\frac{31}{39}\right)\right], \left[\left(\frac{3}{5}\right), \left(\frac{15}{23}\right)\right]$$

(a) $\left[\left(\frac{11}{13}\right), \left(\frac{47}{55}\right)\right]$

(b) $\left[\left(\frac{9}{13}\right), \left(\frac{37}{55}\right)\right]$

(c) $\left[\left(\frac{9}{11}\right), \left(\frac{32}{37}\right)\right]$

(d) $\left[\left(\frac{17}{19}\right), \left(\frac{36}{77}\right)\right]$

Q7. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a) s ɹ j ɹ ɛ j j i T

(b) s ɹ j ɛ ɹ j j i T

(c) s ɹ j ɹ ɛ j f i T

(d) s ɹ j ɹ ɛ j j i T

Q8. Each vowel in the word "ETHICAL" is changed to the following letter in the English alphabetical series and each consonant is changed to the previous letter in the English alphabetical series. In the newly formed word, how many alphabets are there in the English alphabetical series between the alphabet which is 3rd from the left and 1st from the right?

(a) Four

(b) Three

(c) Two

(d) Five

Q9. Select the set in which the numbers are related in the same way as are the numbers of the given set. (NOTE: Operations should be performed on the whole numbers, without breaking down the number into its constituent digits. E.g. 13 - Operations on 13 such as adding / Subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(312,24,13)

(645,43,15)

- (a) (347,27,12)
- (b) (347,22,17)
- (c) (374,17,12)
- (d) (374,22,17)

Q10. 'P @ Q' means 'P is the brother of Q'
'P & Q' means 'P is the father of Q'
'P # Q' means 'P is the daughter of Q'
If 'A # B @ C & D # E', then how is B related to E?
(a) Brother's daughter
(b) Brother's wife
(c) Husband's brother
(d) Brother

Q11. In a certain code language, 'PLAY' is coded as RICV and 'TREE' is coded as VOGB.
How will 'BOOK' be coded in the same language?
(a) HLQD
(b) DQQH
(c) DLQH
(d) DLLH

Q12. The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) is/are followed in all the number-pairs, except one. Find that odd number-pair.
(NOTE: The relation should be found without breaking down the numbers into its constituent digits)
(a) 225:169
(b) 361:400
(c) 529:576
(d) 441:484

Q13. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
 $5*23*24*4*10*111$
(a) -, ÷, +, ×, =
(b) -, ×, +, ÷, =
(c) ×, +, ÷, -, =
(d) +, -, ÷, ×, =

Q14. Which of the following terms will replace the question mark (?) in the given series?
MGB, NIE, OKH, PMK, ?
(a) QON
(b) PQJ
(c) OQN
(d) OPK

Q15. Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the given equation.

$$32 * 42 * 7 * 7 * 17 = 202$$

- (a) $\times, \div, -, +$
- (b) $\times, -, +, \div$
- (c) $+, \div, \times, -$
- (d) $+, \times, \div, -$

Q16. Which of the following numbers will replace the question mark (?) in the given series?

82, 79, 71, ?, 60, 57, 49

- (a) 61
- (b) 63
- (c) 68
- (d) 62

Q17. Select the option that is related to the third word in the same way as the second word is related to the first word.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Hands : Mittens :: Feet : ?

- (a) Shrug
- (b) Scarf
- (c) Socks
- (d) Jacket

Q18. Three statements are given followed by three conclusions 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 conclusions logically follow(s) from the statements.

Statements:

All computers are laptops.

All laptops are mobiles.

Some mobiles are tablets.

Conclusions:

I. Some mobiles are computers.

II. All computers are mobiles.

III. Some computers are tablets.

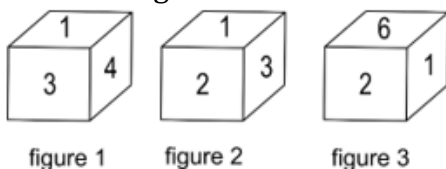
(a) Only conclusions II and III follow.

(b) Only conclusions I and II follow.

(c) Only conclusions I and III follow.

(d) All conclusions follow.

Q19. Three different positions of the same dice are shown. Find the number on the face opposite to the face showing '5'.



- (a) 4
- (b) 2
- (c) 1
- (d) 6

Q20. Which option represents the correct order of the given words as they would appear in an English dictionary ?

1. Highway
2. History
3. Hired
4. Hierarchy
5. Hibiscus

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

Q21. Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.

PRKY_LDP__YOLD_RKYO_DPRK__LD

- (a) ORKLPOD
- (b) ORPKYLP
- (c) ORPLKYO
- (d) ORKPLYO

Q22. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

Energy : Joule

- (a) Temperature : Hot
- (b) Force : Watt
- (c) Power : Horse
- (d) Current : Ampere

Q23. Select the set in which the numbers are related in the same way as are the numbers of the following set. (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- (7, 15, 11)
- (9, 19, 14)
- (a) (8, 16, 13)
- (b) (6, 13, 9)
- (c) (13, 25, 21)
- (d) (11, 23, 17)

Q24. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Strategy
 2. Strength
 3. Stranger
 4. Stretch
 5. Struggle
 6. Strange
- (a) 3, 6, 1, 2, 4, 5
(b) 6, 3, 1, 4, 2, 5
(c) 6, 1, 3, 2, 4, 5
(d) 6, 3, 1, 2, 4, 5

Q25. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

- BET : UXM :: SYP : LRI :: HOX : ?
- (a) NVE
(b) AHQ
(c) BHQ
(d) MVE

Q26. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

- MAGNET : AMNGTE :: FAMILY : AFIMYL :: BLOCKS : ?
- (a) LCBOSK
(b) OLBSKC
(c) LBCOSK
(d) LBOCSK

Q27. Which letter-cluster will replace the question mark (?) to complete the given series ?

- GTCL, KWEM, OZGN, SCIO, ?
- (a) VGLQ
(b) WKFD
(c) VJEF
(d) WFKP

Q28. Looking at a photograph, Reema says, "This boy's father is the father of my daughter". How is the boy related to Reema's daughter?

- (a) Father
(b) Son
(c) Brother
(d) Father's brother

Q29. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

- (a) EILN
- (b) AEHJ
- (c) MOQX
- (d) RVYA

Q30. Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.

$$76 * 4 * 26 * 13 * 9 * 62$$

- (a) -, +, ÷, ×, =
- (b) +, ÷, ×, -, =
- (c) +, -, ÷, ×, =
- (d) ÷, -, +, ×, =

Q31. Which of the following interchanges of signs would make the given equation correct ?

$$1000 - 448 + 14 \div 15 \times 2 = 998$$

- (a) + and ÷
- (b) × and ÷
- (c) - and +
- (d) ÷ and -

Q32. Which two signs and two numbers should be interchanged in the following equation to make it correct ?

$$15 \div 80 - 34 + 10 \times 8 = 102$$

- (a) 10, 80, ÷, -
- (b) 15, 34, -, ×
- (c) 34, 15, +, ÷
- (d) 10, 34, ÷, ×

Q33. Select the set in which the numbers are related in the same way as are the numbers of the given set. (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- (4, 81, 5)
- (3, 144, 9)
- (a) (2, 100, 8)
- (b) (2, 80, 8)
- (c) (2, 256, 8)
- (d) (2, 64, 8)

Q34. The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) is/are followed in all the number-pairs, except one. Find that odd number-pair.

- (a) 24 : 169
- (b) 12 : 49
- (c) 48 : 625
- (d) 36 : 365

Q35. Three statements are followed by three conclusions numbered I, II and III. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow(s) from the given statements.

Statements :

- I. All tools are spanners.
- II. Some spanners are utensils.
- III. No spanner is an iron.

Conclusions :

- (I) Some tools are irons.
- (II) Some utensils are tools.
- (III) Some utensils are not iron.
- (a) Only conclusion III follows
- (b) All conclusions I, II and III follow
- (c) Only conclusion I follows
- (d) Either conclusion I or conclusion III follows

Q36. Three statements are given followed by three conclusions 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 conclusions logically follow(s) from the statements.

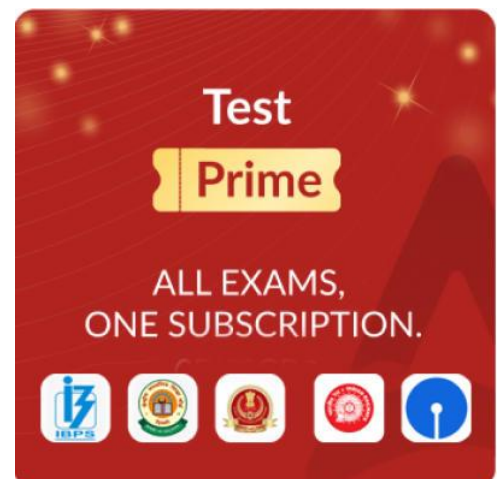
Statements :

- I. All cancers are diseases.
- II. All tuberculosis are diseases.
- III. All diseases are curable.






Conclusions :

- I. All tuberculosis are curable.
- II. Some cancers are tuberculosis.
- III. All cancers are curable.
- (a) Only conclusions II and III follow
- (b) Only conclusions I and III follow
- (c) All conclusions follow
- (d) Only conclusions I and II follow

Q37. In a certain code language, "XPDJOA" is written as "DPXAOJ" and "THBRUC" is written as "BHTCUR". How will "GILDZM" be written in that language?



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-
- (a) LIGMZD
 - (b) ZDMGIL
 - (c) MZDLIG
 - (d) LGIDZM

Q38. Which of the following numbers will replace the question mark (?) in the given series ?
214, 207, 193, ?, 144, 109

- (a) 172
- (b) 117
- (c) 175
- (d) 170

Q39. Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.

17 : 4624 :: ? : 180 :: 13 : 2028

- (a) 4
- (b) 7
- (c) 6
- (d) 11

Q40. In a certain code language, 'SLAP' is coded as '3160' and 'PAST' is coded as '6071'.
What is the code for 'L' in the given code language?

- (a) 3
- (b) 1
- (c) 6
- (d) 0

Q41. The power to summon each House of Parliament is vested with the:

- (a) President
- (b) Lok Sabha Speaker
- (c) Vice President
- (d) Union Cabinet

Q42. In the context of various environment protection treaties/protocols and the places associated with them, which of the following is NOT correctly paired?

- (a) Protocol on Biosafety - Cartagena
- (b) Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade - Stockholm
- (c) Convention on the Control of Transboundary Movement of Hazardous Wastes and their Disposal - Basel
- (d) Convention on Biological Diversity - Nagoya

Q43. Which of the following may be classified as a 'Pigovian tax'?

- (a) Long term capital gain tax
- (b) Corporate tax
- (c) Carbon tax
- (d) Income tax

Q44. As per the UN criteria, a city qualifies as a mega city when its population is a minimum of:

- (a) 5 million
- (b) 10 million
- (c) 15 million
- (d) 12 million

Q45. Which of the following statements about the ionosphere is NOT correct?

- (a) Radio waves transmitted from the earth are reflected back to the earth by this layer.
- (b) It contains charged particles.
- (c) It is ionised by solar and cosmic radiation.
- (d) It is located immediately above the stratopause.

Q46. Which of the following provisions of the Indian Constitution is correctly paired with the article pertaining to it?

- (a) Protection of life and personal liberty - Article 21
- (b) Prohibition of traffic in human beings - Article 24
- (c) Right to education - Article 22A
- (d) Prohibition of employment of any child below fourteen years of age in any factory or mine - Article 23

Q47. Hiccups in humans generally occur due to the forceful downward shifting of the

- (a) diaphragm
- (b) trachea
- (c) lungs
- (d) larynx

Q48. After the death of Shri Guru Gobind Singh, the Sikhs revolted against the _____ under the leadership of Banda Bahadur.

- (a) Gurkhas
- (b) British
- (c) Mughals
- (d) Marathas

Q49. In India, the Protection of Children from Sexual Offences (POCSO) Act, _____ is a comprehensive law to provide for the protection of children from the offences of sexual assault, sexual harassment and pornography, while safeguarding the interests of the child.

- (a) 2006
- (b) 2008
- (c) 2010
- (d) 2012

Q50. Who among the following Indian musicians was a part of a band named 'Planet Drum' along with Mickey Hart, Sikiru Adepouju, and Giovanni Hidalgo, whose first album received the 1992 Grammy Award for Best World Music Album, which was the first Grammy in this category?

- (a) Zakir Hussain
- (b) Hariprasad Chaurasia
- (c) Bhimsen Joshi
- (d) Ravi Shankar

Q51. Which of the following is a mountain between India and Nepal?

- (a) Manaslu
- (b) Makalu
- (c) Dhaulagiri
- (d) Kanchenjunga

Q52. Lalita is a form of folk music from _____.

- (a) Rajasthan
- (b) Gujarat
- (c) Madhya Pradesh
- (d) Maharashtra

Q53. Who among the following is the author of the book 'The Coalition Years'?

- (a) KR Narayanan
- (b) Pranab Mukherjee
- (c) APJ Abdul Kalam
- (d) Giani Zail Singh

Q54. With which of the following organisations was Lala Har Dayal associated?

- (a) Swaraj Party
- (b) Indian Independence League
- (c) Ghadar Party
- (d) Indian Home Rule Society

Q55. Which of the following represents an alpha particle?

- (a) ${}^2_2\text{He}$
- (b) ${}^4_2\text{He}$
- (c) ${}^2_1\text{He}$
- (d) ${}^1_1\text{He}$

Q56. Who among the following had been given the title of 'Sultan Buland Iqbal' by Shah Jahan?

- (a) Shuja
- (b) Dara
- (c) Murad
- (d) Aurangzeb

Q57. The Gulf Cooperation Council (GCC) is headquartered in which city?

- (a) Dubai
- (b) Riyadh
- (c) Bahrain
- (d) Sharjah

Q58. Which of the following built the city of Hyderabad as his residential capital and called it Bhagyanagar?

- (a) Ibrahim Qutb Shah
- (b) Muhammad Quli **Qutb Shah**
- (c) Muhammad Shah
- (d) Abdullah Qutb Shah

Q59. Mirat-i-Sikandari gives details about which of the following rulers?

- (a) Feroz Shah Tughlaq
- (b) Zafar Khan
- (c) Muhammad bin Tughlaq
- (d) None of the above

Q60. As per the census 2011, which one of the following is the correct ascending sequence of States with regard to percentage of urban population?

- (a) Goa-Mizoram-Maharashtra-Kerala
- (b) Maharashtra-Kerala-Mizoram-Goa
- (c) Mizoram-Goa-Maharashtra-Kerala
- (d) Tamil Nadu-Mizoram-Goa-Maharashtra

Q61. Thumba in Kerala is famous for which of the following?

- (a) It has several industries
- (b) It is a harbour
- (c) It has an international airport
- (d) It is a rocket launching station

Q62. The Bhandar Plateau is located in which of the following states of India?

- (a) Madhya Pradesh
- (b) Jharkhand
- (c) Maharashtra
- (d) Karnataka

Q63. Washing soda can be obtained from baking soda by _____.

- (a) Heating
- (b) Mixing with Hydrochloric Acid
- (c) Heating with Slaked Lime
- (d) Making a solution in Lime water

Q64. Limestone, chalk and marble are different forms of which of the following compounds?

- (a) Calcium Chloride
- (b) Calcium Carbonate
- (c) Magnesium Carbonate
- (d) Sodium Carbonate

Q65. "Petroleum" can be categorised under which one of the following terms?

- (a) Elements
- (b) Hydrocarbons
- (c) Polymers
- (d) Salts

Q66. The Right of Children to Free and Compulsory Education Act or Right to Education (RTE) Act is an Act of the Parliament of India enacted in the year

- (a) 2005
- (b) 2009
- (c) 2012
- (d) 2007

Q67. Which of the following parties supported the move for partition of Bengal?

- (a) Gadar Party
- (b) All India Muslim League
- (c) Communist Party of India
- (d) Forward Bloc

Q68. What was the estimated national mortality rate of children under the age of five in the country as per Census of India 2011?

- (a) 13
- (b) 34
- (c) 76
- (d) 55

Q69. In April 2023, the 'Mircha' rice was awarded a Geographical Indication (GI) Tag. This variety of rice is associated with which district in Bihar?

- (a) East Champaran
- (b) West Champaran
- (c) Bhagalpur
- (d) Gaya

Q70. In April 2023, which of the following state governments launched the 'CM di Yogshala' program to create a mass movement to carve out a healthy and prosperous state?

- (a) Rajasthan
- (b) Punjab
- (c) Himachal Pradesh
- (d) Kerala

Q71. Which of the following National Parks of Madhya Pradesh has announced a ban on single-use plastic?

- (a) Kanha Tiger Reserve
- (b) Bandhavgarh National Park
- (c) Panna National Park
- (d) Van Vihar National Park

Q72. Who became the first woman Member of Parliament (MP) from Nagaland to preside over the Rajya Sabha?

- (a) Phangnon Konyak
- (b) Rano M. Shaiza
- (c) Dr. Medo Yhokha
- (d) Neiphiu Rio

Q73. Shri Jyotiraditya M Scindia, Minister of Civil Aviation and Steel inaugurated Heli Summit 2023. Where was the Heli Summit 2023 held?

- (a) Mumbai, Maharashtra
- (b) Jaipur, Rajasthan
- (c) Khajuraho, Madhya Pradesh
- (d) Agra, Uttar Pradesh

Q74. What prestigious award did Shankari Chandran win for her novel 'Chai Time at Cinnamon Gardens'?

- (a) Nobel Prize in Literature
- (b) Booker Prize
- (c) Pulitzer Prize for Fiction
- (d) Mile Franklin Literacy Award 2023

Q75. India's tiger population estimates to _____ with an annual growth rate of 6.1%.

- (a) 2,925
- (b) 3,925
- (c) 4,925
- (d) 5,925

Q76. Identify the correct one-word substitution for the following definition from the options provided:
'A person who makes maps'

- (a) Gridwner
- (b) Seismographer
- (c) Cartographer
- (d) Barometrist

Q77. Spot the error in the following sentence and mark the correct answer:
He ought (A)/ not have done (B) / such a despicable thing (C) / No error (D)

- (a) A
- (b) D
- (c) C
- (d) B

Q78. Spot the error in the following sentence and mark the correct answer:
I have seen (A) / that film last year (B) / but I do not remember its story (C)/No error (D)

- (a) A
- (b) D
- (c) C
- (d) B

Q79. Choose the answer which most appropriately expresses the meaning of the given idiom/phrase:
"To meet one's Waterloo"

- (a) To meet a strong adversary
- (b) To die an ignoble death
- (c) To meet one's final defeat
- (d) To die fighting

Q80. A sentence has been given in the 'active voice'. Out of the four alternatives given, select the one which best expresses the sentence in the 'passive voice'
"Had he worked hard he would have won the gold medal".

- (a) The gold medal will have been won by him had he worked hard
- (b) The gold medal will have been won by him if he worked hard
- (c) The gold medal would have been won by him if he worked hard
- (d) The gold medal would have been won by him had he worked hard

Q81. Find out the correct antonym for the following word from the options given below:
OPULENT

- (a) Poor
- (b) Drooping
- (c) Rich
- (d) Sumptuous

Q82. A sentence has been presented as indirect. speech. Out of the four alternatives choose the one which correctly expresses the same sentence in direct speech:

The doctor directed the patient to give up smoking:

- (a) The doctor said to the patient, "Why don't you give up smoking?"
- (b) The doctor said to the patient, "I am advising you to give up smoking."
- (c) The doctor said to the patient, "Give up smoking."
- (d) The doctor said to the patient, "You should give up smoking."

Q83. Identify the correctly spelt word from the given options:

- (a) ENTREPRENEUR
- (b) ENTERPRENEUR
- (c) ENTERPRENURE
- (d) ENTREPENURE

Q84. Identify the correctly spelt word from the given options:

- (a) Riverberation
- (b) Revirberation
- (c) Revarberation
- (d) Reverberation

Q85. Match List I with List II

List-I

- A. Using more words than are needed
- B. One who abstains from alcoholic drinks
- C. One who unable to pay debts
- D. One who appreciates fine food and drinks

List-II

- I. Teetotaller
- II. Insolvent
- III. Verbose
- IV. Epicure

Choose the most appropriate answer from the options given below:

- (a) A-III, B-I, C-II, D-IV
- (b) A-I, B-III, C-IV, D-II
- (c) A-II, B-IV, C-I, D-III
- (d) A-I, B-II, C-III, D-IV

Q86. Identify the correct one-word substitution for the given definition from the options provided: 'Juxtaposing contradictory words'

- (a) Elegy
- (b) Ambiguous
- (c) Acronym
- (d) Oxymoron

Directions (87-91): Read the following passage and answer the questions which follow:

New Year is the time for resolutions. Mentally, least many of us could compile formidable lists of 'do's and don'ts'. The same old favourites recur year in and year out with monotonous regularity. We resolve to get up early each morning, eat healthy food, exercise, be nice to people whom we don't like and find more time for our parents. Past experience has taught us that certain accomplishments are beyond attainment. If we remain deep-rooted liars, it is only because we have so often experienced the frustration that results from failure.

Most of us fail in our efforts at self-improvement because our schemes are too ambitious and we never have time to carry them out. We also make the fundamental error of announcing our resolution to everybody, so that we look even more foolish when we slip back into our bad old ways. Aware of these pitfalls, this year I attempted to keep my resolutions to myself. I limited myself to two modest ambitions, to do physical exercise every morning and to read more in the evening. An overnight party on New Year's Eve provided me with a good excuse for not carrying out either of these new resolutions on the first day of the year, but on the second, I applied myself diligently to the task.

The daily exercise lasted only eleven minutes and I proposed to do them early in the morning before anyone had got up. The self-discipline required to drag myself out of bed eleven minutes earlier than usual, was considerable. Nevertheless, I managed to creep down into the living room for two days before anyone found me out. After jumping about in the carpet and twisting the human frame into uncomfortable positions, I sat down at the breakfast table in an exhausted condition. It was this that betrayed me. The next morning, the entire family trooped in to watch the performance. That was really unsettling, but I fended off the taunts and jibes of the whole family good-humouredly and everybody got used to the idea. However, my enthusiasm waned. The time I spent at exercises gradually diminished. Little by little, the eleven minutes fell to zero. By January 10, I was back to where I had started from. I argued that if I spent less time exhausting myself at exercises in the morning, I would keep my mind fresh for reading when I got home from work. Resisting the hypnotising effect of television, I sat in my room for a few evenings with my eyes glued to a book. One night, however, feeling cold and lonely, I went downstairs and sat in front of the television, pretending to read. That proved to be my undoing, for I soon got back to the old bad habit of dozing off in front of the screen - I still haven't given up my resolution to do more reading. In fact, I have just bought a book entitled 'How to Read a Thousand Words a Minute'. Perhaps, it will solve my problem, but I just have not had time to read it.

Q87. How did the writer fend off the taunts and jibes of the whole family?

- (a) Sadly
- (b) Intensely
- (c) Arrogantly
- (d) Good humouredly

Q88. Which of the following means the same as 'not changing and therefore boring'?

- (a) Formidable
- (b) Attainment
- (c) Resolution
- (d) Monotonous

Q89. What dragged the writer to get out of the bed eleven minutes earlier than usual?

- (a) New Year's Eve
- (b) Self discipline
- (c) Past experiences
- (d) Failure

Q90. Why do most of us fail in our attempts at self-improvement?

- (a) Because the same old favourites recur year in and year out
- (b) Because our schemes are too ambitious and we never have to time to carry them out
- (c) Because we always slip back to our bad old way
- (d) Because certain accomplishments are beyond attainment

Q91. What were the writer's resolutions?

- (a) Do Physical exercise in the morning
- (b) Read more in the evening
- (c) Both (a) and (b)
- (d) Not to make more resolutions

Q92. In the following question, out of the given alternatives, choose the one which is most nearly the same in meaning to the highlighted word in the sentence:

Sporadic rise in his body temperature has caused us much worry.

- (a) Frequent
- (b) Scattered
- (c) Irregular
- (d) Irksome

Q93. In the following sentence, fill in the blank with the most appropriate verb form from the given alternatives to make a present perfect continuous tense:

He _____ in the same class for the last three years (study).

- (a) Has been studying
- (b) Had been studying
- (c) Had studied
- (d) Has studied

Q94. The following sentence is jumbled. Choose the correct sequence of sections A, B, C, and D to frame a correct sentence from the options provided.

from different walks of life as on human rights (A)/ so much is written by so many persons (B)/there are very few subjects in (C)/contemporary times on which (D)

- (a) ACDB
- (b) CDBA
- (c) CABD
- (D) CDAB

Q95. Which of the phrases given below should replace the highlighted phrases in the following questions in order to make a grammatically correct sentence? If there is no improvement needed to correct the sentence, select the relevant option.

Seeing that she is very tired, I walked out of the room and let her sleep.

- (a) Seeing that she is very tired
- (b) No improvement needed
- (c) Seeing that she were very tired
- (d) Seeing that she was very tired

Directions (96-100): In the following passage some of the words have been omitted. Read the passage carefully and choose the correct answer to each question out of the four alternatives:

Technology is the technical _____(1)_____ people use to _____(2)_____ their surroundings. It also means knowledge of using tools and machines to do tasks _____(3)_____. We use technology to control the world in which we live. Technology is people using knowledge, tools and systems to make their lives easier and better. People use technology to refine their ability to do work. _____(4)_____ technology, people communicate better. Technology allows them to make more and better products. Our buildings are better through the use of technology. We travel in more comfort and speed as a _____(5)_____ of technology. Yes, technology is everywhere and can make life better.

Q96. Select the option to fill in the blank 1.

- (a) data
- (b) means
- (c) sound
- (d) manpower

Q97. Select the option to fill in the blank 2.

- (a) relate
- (b) grow
- (c) improve
- (d) capture

Q98. Select the option to fill in the blank 3.

- (a) locally
- (b) vaguely
- (c) efficiently
- (d) centrally

Q99. Select the option to fill in the blank 4.

- (a) Through
- (b) Although
- (c) Since
- (d) Without

Q100. Select the option to fill in the blank 5.

- (a) source
- (b) precursor
- (c) matter
- (d) result

Q101. Choose the option in which the given sentence has been changed into passive voice.

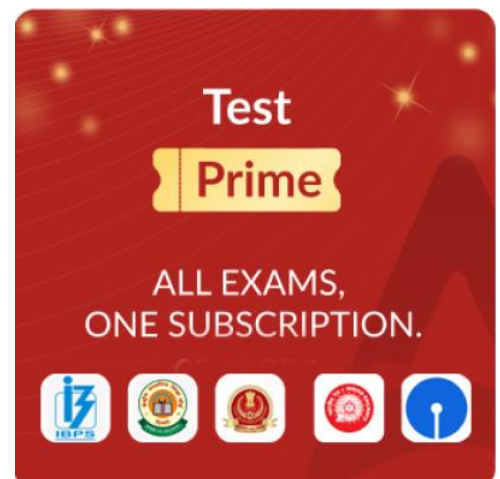
I wrote this book.

- (a) This book had been written by me.
- (b) This book has been written by me.
- (c) This book was written by me.
- (d) This book is being written by me.

Q102. Fill in the blank in the following sentence with the help of the given options.






We had completed our paper when the bell_____.

- (a) rang
- (b) had rung
- (c) had been rung
- (d) was ringing



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Q103. Fill in the blank in the following sentence with the help of given options.

Shashi is _____ honest girl who helped me.

- (a) a
- (b) an
- (c) the
- (d) no article

Q104. Either you or Ram _____ to help me.

- (a) have
- (b) are
- (c) were
- (d) has

Q105. Identify the part of the sentence which has an error in it.

He told (A) me yesterday (B) that he (C) will help me. (D)

- (a) D
- (b) C
- (c) B
- (d) A

Q106. Choose the option in which the following words/ phrases can be rearranged to form a correct sentence.

- A. a piece of bread
- B. driven by
- C. stole a
- D. hunger he

- (a) A, C, B, D
- (b) B, D, A, C
- (c) C, D, A, B
- (d) B, D, C, A

Q107. Fill in the blank in the following sentence with the help of given options.

After a gap of two years, he has decided to _____ to teaching.

- (a) go on
- (b) go back
- (c) go off
- (d) go along

Q108. Fill in the blank in the following sentence with the help of given options.

In the summer season, the mango tree _____ fresh fruit.

- (a) brings on
- (b) brings out
- (c) brings forth
- (d) brings in

Q109. I have heard rumours, but nothing **definite**.

Which of the following words can correctly replace the highlighted one in the above sentence?

- (a) small
- (b) vague
- (c) precise
- (d) large

Q110. Which one of the following words is nearby opposite in meaning to the highlighted word.

Familiarity breeds contempt.

- (a) amity
- (b) remoteness
- (c) attachment
- (d) passion

Q111. The angles of a triangle are in A.P (Arithmetic progression). If the measure of the smallest angle is 40° less than that of the largest angle, then find the largest angle (in degrees).

- (a) 90°
- (b) 27°
- (c) 54°
- (d) 80°

Q112. The average monthly salary of 35 security guard of an office is Rs 18500. If the average salary of 2 supervisors is Rs.35000 and the average salary of 6 Gardner is Rs 24000, then what is the average salary of all the employees (nearest integer)?

- (a) Rs 14000
- (b) Rs 25540
- (c) Rs 20035
- (d) Rs 21980

Q113. There are two circles of radii 14cm and 10cm intersect each other and the length of their common chord is 18cm. what is the distance (in cm) between their center?

- (a) $3\sqrt{7} - \sqrt{19}$
- (b) $3\sqrt{4} + \sqrt{5}$
- (c) $\sqrt{115} + \sqrt{19}$
- (d) $3\sqrt{4} - \sqrt{5}$

Q114. What would be the total interest on a sum of Rs 25000 at 12.5% p.a. after 3 years? If the interest is compounded yearly.

- (a) Rs. 10500
- (b) Rs. 10595.7
- (c) Rs. 10580
- (d) Rs. 11505.7

Q115. A swimmer can go 8km downstream and 4km upstream in 40minutes. If he can swim 8km upstream and 6km downstream in 30minutes. How much time will it take to go 10km upstream?

- (a) None of these
- (b) 22min
- (c) 14min
- (d) Data inadequate

Q116. The given table shows the number students enrolled in four schools from 2016 to 2020.

Years	K.V School	Navodaya School	Sanik School	DPS School
2016	2250	2100	2000	1750
2017	2440	1950	1900	1600
2018	2300	2400	1840	1760
2019	2500	2300	1850	1800
2020	1800	2500	1800	2000

By what percent is the number of students studying in Navodaya school during 2016 to 2019 more or less than the number of students studying in DPS school during 2018 to 2020?

- (a) 57.37%
- (b) 50%
- (c) 76%
- (d) 53%

Q117. From a point exactly midway between the foot of two building P and Q, the angles of elevation of their tops are 30° and 60° respectively. The ratio of the height of P to that of Q is.

- (a) 1 : 3
- (b) 2 : 3
- (c) 1 : 2
- (d) 4 : 1

Q118. The given table shows the number students enrolled in four schools from 2016 to 2020.

Years	K.V School	Navodaya School	Sanik School	DPS School
2016	2250	2100	2000	1750
2017	2440	1950	1900	1600
2018	2300	2400	1840	1760
2019	2500	2300	1850	1800
2020	1800	2500	1800	2000

In which year is the maximum number of students enrolled school?

- (a) 2020
- (b) 2017
- (c) 2018
- (d) 2019

Q119. If the $\sin(A - B) = \frac{(\sqrt{3}-1)}{2\sqrt{2}}$, and $\cos(A + B) = \frac{1}{\sqrt{2}}$, where $(A - B)$ and $(A + B)$ are acute angles, then $(3A - B)$ is equal to:

- (a) 67°
- (b) 50°
- (c) 75°
- (d) 81°

Q120. The quantity of mixture of milk and water is 70 litre. This mixture contains 10% water. How many litres of water should be mixed in the mixture to make 25% water in the mixture?

- (a) 19 L
- (b) 18 L
- (c) 14 L
- (d) 11 L

Q121. Three friends Ajay, Pushpa and Piyush are working in a steel industry. The income of Ajay is 30% less than the income of Pushpa and the income of Pushpa is 137.5% more than that of Piyush. If the income of Ajay is Rs 2838 more than that of Pushpa, then the income of Piyush is:

- (a) Rs 6760
- (b) Rs 6780
- (c) Rs 6800
- (d) Rs 6880

Q122. In ΔABC , $\angle A = 90^\circ$, $AD \perp BC$ at D. if $AB = 12$ cm and $AC = 16$ cm, then what is the length of BD?

- (a) 7.5cm
- (b) 7.2cm
- (c) 8.2cm
- (d) 8.5cm

Q123. The ratio of the present age of father to daughter is 6 : 5. 27 years later, the ratio of their ages become 3 : 1. What is the ratio of their ages, 10 years later from the present age?

- (a) 13 : 23
- (b) 23 : 21
- (c) 23 : 20
- (d) 23 : 27

Q124. If $3\sin^2\theta - \sin\theta = 2$, then the value of $1 + 2\sin^2\theta + 3\operatorname{cosec}^2\theta \cdot \cos^2\theta$, $0^\circ < \theta \leq 90^\circ$, is equal to :

- (a) 6
- (b) 4
- (c) 3
- (d) 0

Q125. The given table shows the number of trees planted in four schools from 2010 to 2014.

Years	K.V School	Navodaya School	Sanik School	DPS School
2010	2250	2100	2000	1750
2011	2440	1950	1900	1600
2012	2300	2400	1840	1760
2013	2500	2300	1850	1800
2014	1800	2500	1800	2000

From 2010 to 2014, how many more or less trees were planted in DPS school as compared to Sanik School ?

- (a) 1530 less
- (b) 1530 more
- (c) 480 less
- (d) 520 more

Q126. Angle between the internal bisector of two angle $\angle Q$ and $\angle R$ of ΔPQR is 129° , then the value of $\angle P$ is :

- (a) 68°
- (b) 78°
- (c) 70°
- (d) 67°

Q127. Number of aspirants who fills the forms of four different competition exam.

Exam name / Year	2016	2017	2018	2019
IBPS	150	135	128	120
UPSC	100	120	130	140
SSC	125	125	140	135
PSC	120	110	135	145

The ratio of the total number of aspirants of IBPS, UPSC and PSC in 2016 to the total number of aspirants of SSC and IBPS in 2019 is:

- (a) 74 : 51
- (b) 71 : 81
- (c) 41: 11
- (d) 42 : 55

Q128. Rajdhani express train runs first 75km at a certain speed and the next 105km at a speed of 20km/h more than the normal its speed. If it takes 3 hours to complete the whole journey, then how much time will the train take to cover 665 km with its normal speed?

- (a) $10\frac{3}{10} hr.$
- (b) $13\frac{1}{10} hr.$
- (c) $13\frac{3}{10} hr.$
- (d) $10\frac{1}{10} hr.$

Q129. IF $x + y + z = 3$ and $xy + yz + zx = -14$, then the value of $x^3 + y^3 + z^3 - 3xyz$ is:

- (a) 154
- (b) 159
- (c) 157
- (d) 153

Q130. The Selling price of a Motorcycle marked for Rs 12000 After giving three discounts, 20%, 25% and P% is Rs 6120. What would be the selling price of a motorcycle if a single discount of $(P + 10)\%$ is allowed?

- (a) Rs. 9000
- (b) Rs. 8565
- (c) Rs. 10575
- (d) Rs. 9400

Q131. If $\cos C = \frac{3}{5}$, C and B are the Acute angles, then find the value of $\frac{\sin B + \operatorname{cosec} C}{5(3 + \cos B)}$?

- (a) $\frac{27}{380}$
- (b) 15.5
- (c) 20.5
- (d) $\frac{37}{380}$

Q132. In a circle with center O, Points A, B, C, D and E lie in this order on the circumference of the circle. if chord DE is parallel to diameter AC and $\angle CBE = 48^\circ$, then find the measure (in degrees) of $\angle CED$?

- (a) 22°
- (b) 32°
- (c) 42°
- (d) 52°

Q133. In ΔPQR , PT is the bisector of $\angle P$ meeting to RQ at T. if $PQ = 28\text{cm}$, $QR = 11\text{cm}$ and the length of RT is 3cm less than TQ, then the length of side PR is:

- (a) 10cm
- (b) 16 cm
- (c) 8cm
- (d) 9cm

Q134. In ΔABC , $AD \perp BC$ at D and AE is the bisector of $\angle A$. If $\angle B = 60^\circ$ and $\angle C = 40^\circ$, then what is the measure of $\angle DAE$?

- (a) 15°
- (b) 10°
- (c) 20°
- (d) 8°

Q135. $\frac{1}{\operatorname{cosec}\theta} + \frac{1}{\tan\theta + \cot\theta}$ is equal to:

- (a) $\sin\theta(2 + \cos\theta)$
- (b) $\tan\theta(1 + \sin\theta)$
- (c) $\sin\theta(1 + \cos\theta)$
- (d) 1

Q136. The radii of inner and outer of a spherical shell are 4cm and 5cm respectively, then what would be the volume of spherical shell?

- (a) $\frac{244\pi}{3}$
- (b) $\frac{144\pi}{3}$
- (c) π
- (d) $\frac{239\pi}{5}$

Q137. The given below table shows data of number of primary school students in school of a city. Study the table and answer the question:

District	Male students	Female students
East	1750	2465
North	1450	3585
West	1225	2700
South	1565	1980
Central	1655	700

What would be the average of number of female students in the five districts?

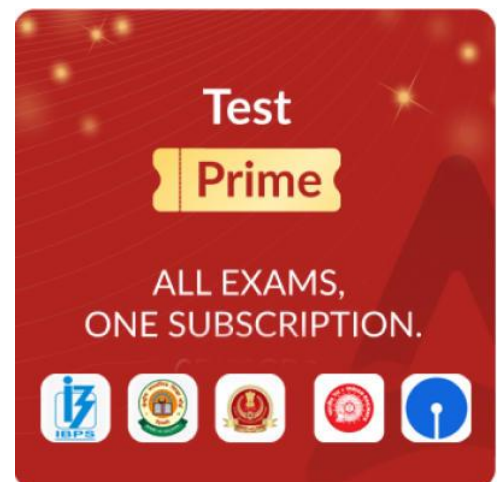
- (a) 2231
- (b) 2286
- (c) 2455
- (d) 2387

Q138. What would be the smallest value of x so that $62x35y$ ($x > y$) is divisible by 11.

- (a) 6
- (b) 8
- (c) 5
- (d) 4

Q139. The given below pie-chart shows the distribution of percentage of students in various courses.

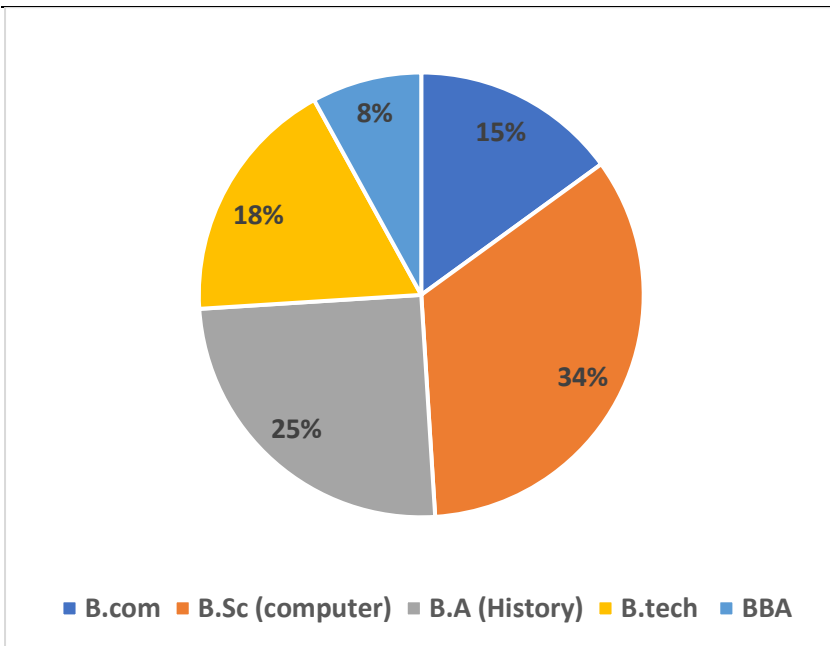
Total number of students is 2000.



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Percentage wise distribution of number of girls:

Course	Number of girls
B.com	55%
B.Sc (computer)	45%
B.A (History)	40%
B.tech	75%
BBA	60%

What would be the ratio of number of boys in B.A (history) to the number of girls in BBA?

- (a) 25 : 8
- (b) 4 : 5
- (c) 7 : 9
- (d) 10 : 11

Q140. In a rubber factory, the ratio of male to female is 5 : 7. If the average earning of male to female are Rs 568 and Rs 345 respectively, then what would be the overall average earning of male and female together?

- (a) Rs. 433
- (b) Rs. 490
- (c) Rs. 423
- (d) Rs 438

Q141. Twenty-eight persons can make a road in 36 days. After 10 days of work, 18 workers left the work and joined on the last day of the work. In how many days a road can be made?

- (a) 80
- (b) 75
- (c) 81
- (d) 90

Q142. A noise smartwatch is marked 27% above its cost price. If a% discount is allowed on the marked price and still a vendor earns a profit of 6.68%, then find the value of 'a'.

- (a) 9
- (b) 11.5
- (c) 14
- (d) 16

Q143. The ratio of number of chocolates Sunil and Anil have is 5 : 8. If 10 chocolates is given to each of them, then the ratio becomes 2 : 3. The difference of chocolates of Sunil and Anil is:

- (a) 45
- (b) 35
- (c) 38
- (d) 30

Q144.

The value of $\frac{3}{4} \times 2\frac{2}{3} \div \frac{5}{9}$ of $1\frac{1}{5} + \frac{2}{23} \times 3\frac{5}{6} \div \frac{2}{7}$ of $2\frac{1}{3}$ is:

- (a) $1\frac{5}{6}$
- (b) $1\frac{2}{3}$
- (c) $3\frac{1}{2}$
- (d) $4\frac{5}{6}$

Q145. In a circle, chords PQ and RS intersect each other internally, at D. If RS = 32 cm, SD = 12 cm, PD = 24 cm and QD = a cm, then the value of a is:

- (a) 5 cm
- (b) 9 cm
- (c) 10 cm
- (d) 15 cm

Q146. The average age of Nishant, his friend Vasu and his daughter 6 years ago was 38 years and that of his friend and his daughter 8 years ago was 32 years. Find the present age of Nishant.

- (a) 52 years
- (b) 57 years
- (c) 59 years
- (d) 56 years

Q147. Triangle PQR is an equilateral triangle. M and N are points on PQ and PR respectively such that MN is parallel to QR and is equal to half the length of QR. If $PM + RN + QR = 30$ cm, then find the perimeter (in cm) of the quadrilateral QRNM.

- (a) 33.75 cm
- (b) 31.25 cm
- (c) 37.5 cm
- (d) 38.5 cm

Q148. A 50 litres mixture of water and acid contains 20% acid. How much acid should be added to make the acid 60% in the new mixture?

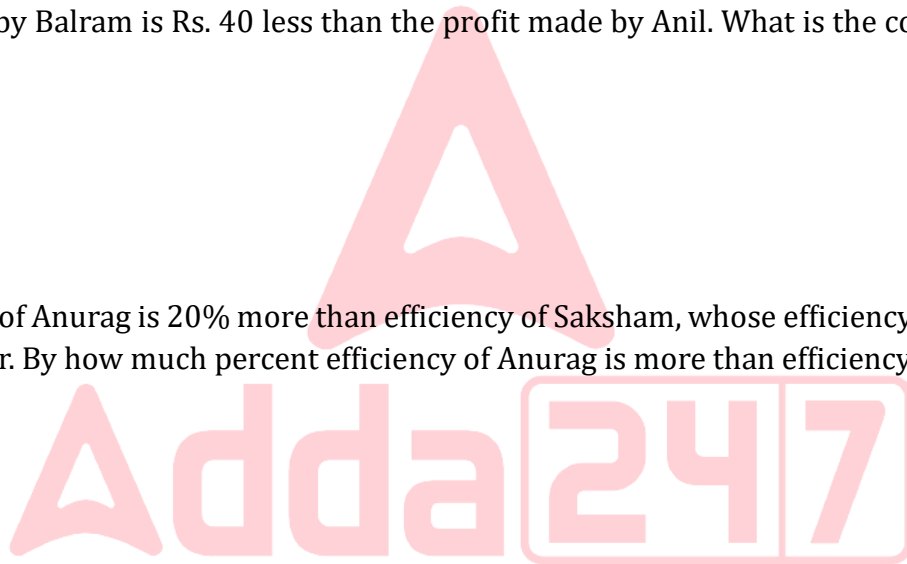
- (a) 25 liters
- (b) 30 liters
- (c) 45 liters
- (d) 50 liters

Q149. Anil sold a cricket bat to Balram at a profit of 25%. Balram sold it to Chirag at a profit of 15%. The profit made by Balram is Rs. 40 less than the profit made by Anil. What is the cost price (in Rs.) of the bat for Anil?

- (a) 640
- (b) 546
- (c) 240
- (d) 400

Q150. Efficiency of Anurag is 20% more than efficiency of Saksham, whose efficiency is 30% more than efficiency of Kabir. By how much percent efficiency of Anurag is more than efficiency of Kabir?

- (a) 44
- (b) 68
- (c) 56
- (d) 37



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