SSC MTS 2023 Official Paper (Held On: 05 Sept, 2023 Shift 3) (Previous Year Paper)

SSC Multi-Tasking Staff (MTS) • 2023 • 90 questions • 90 minutes • Answer key

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SESSION 1

Q1. In how many years will a sum of Rs. 18,000 at 20% per annum compounded half yearly becomes Rs. 23,958?

(a) 11/2
(b) 31/2
(c) 11/4
(d) 21/2

Q2. Rashmi and Tina can do a piece of work in 20 and 30 days, respectively. If they work at it on alternate days with Rashmi beginning, then, in how many days will the work be over?

(a) 28
(b) 26
(c) 24
(d) 12

Q3. A swimmer swims downstream from point A to point B in 4 hours. It covers the same distance upstream in 5 hours. If the speed of the stream is 2 km/h, what is the distance between A and B:

(a) 80 km
(b) 72 km
(c) 60 km
(d) 100 km

Q4. The average of the two numbers is 48. If 3 is added to a smaller number, then the ratio between them is 11 : 20. Find the larger number. (Round up to two decimal places).

(a) 40.87
(b) 3.87
(c) 63.87
(d) 70.87

Q5. In a group of people, 70% are men and 30% are women. The average age of the men is 50 years and that of the women is 40 years. Find the average age of all the members in the group (in years).

(a) 48
(b) 47
(c) 46
(d) 45

Q6. Simplify: (1/3 ÷ 1/3 × 1/3)/(1/3+1/3-1/3)=?

(a) 3
(b) 1/9
(c) 1
(d) 1/3

Q7. A man and a boy can do a piece of work in 12 days. If the man works alone for the last 3 days, it is completed in 13 days. How long would the boy take to do it alone?

(a) 36 days
(b) 18 days
(c) 72 days
(d) 30 days

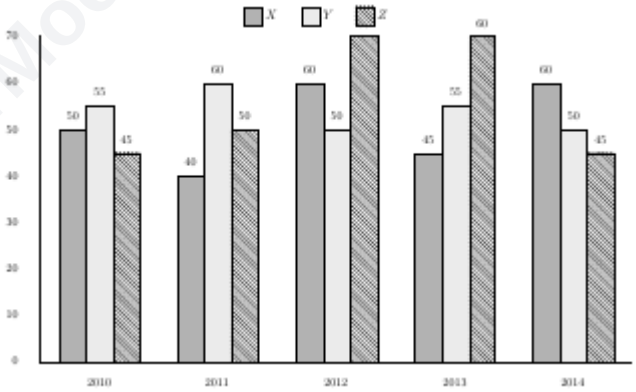
Q8. A sum of money becomes seven times in 16 years at simple interest per annum. Find the per annum rate of interest.

(a) 25.8%
(b) 39.2%
(c) 20.3%
(d) 37.5%

Q9. A train covers a certain distance with a speed of 72 km/h in the first two hours of its journey and 120 km in the next 1.5 hours. What is its average speed (in km/h, rounded off to the nearest integer) for the entire journey?

(a) 75
(b) 78
(c) 73
(d) 79

Q10. The graph shows the production of tyres (in Lakhs) by three different companies X, Y, and Z over the years.
Directions: Study the following graph carefully to answer the question given below it.



What is the percentage increase in production of company X from 2011 to 2012?

(a) 37.5%
(b) 32.5%
(c) 38.25%
(d) 35%

Q11. By selling 8 items, a shopkeeper gains the selling price of 2 items. The gain percentage of the shopkeeper is:

(a) 25%
(b) 16 2/3 %
(c) 33 1/3 %
(d) 30%

Q12. Zeenat earns 20% on an investment, but she loses 10% on another investment. If the two investments are respectively in the ratio of 3 : 5, then what is the percentage gain or loss for Zeenat on the two investments taken together?

(a) 1.25% Gain
(b) 2.25% Loss
(c) 1.25% Loss
(d) 2.25% Gain

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Q13. Find the arithmetic mean of 28, 21, 39, 33, 36, 23.

(a) 30
(b) 32
(c) 26
(d) 28

Q14. An athlete crosses a 3000-m distance in 10 minutes. What is his speed (in km/h)?

(a) 16
(b) 12
(c) 14
(d) 18

Q15. The diameter of the base of a right circular cylinder is 36 cm and its height is 21 cm. Find the volume of the cylinder. (Take π = 22/7)

(a) 2376 cm3
(b) 85536 cm3
(c) 21384 cm3
(d) 5346 cm3

Q16. Rupees 66,000 is to be divided amongst Asha, Bhupinder and Gargi in such a way that the ratio of their shares is to be:
Asha : Bhupinder = 9 : 5 and Bhupinder : Gargi = 2 : 1. How much should Asha get?

(a) Rs. 38,000
(b) Rs. 36,000
(c) Rs. 32,000
(d) Rs. 34,000

Q17. Three numbers are in the ratio 3 : 5 : 7. If their LCM is 2625, find their HCF.

(a) 100
(b) 125
(c) 50
(d) 25

Q18. The table below shows the marks obtained by students A, B and C in French and Geography in an examination. The maximum marks for each subject are 100. Study the table carefully and answer the question that follows.

Student	French	Geography
A	98	100
B	89	98
C	92	99

What is the ratio of the average marks of the three students in Geography to that in French?

(a) 32 : 28
(b) 28 : 32
(c) 33 : 31
(d) 31 : 33

Q19. A contractor reduces the working time of a week (Monday to Saturday) from 48 hours to 36 hours for his workers without changing the payment. What is the percentage increase in the hourly rate?

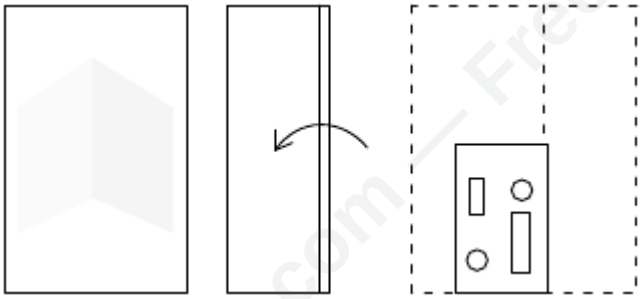
(a) 30 1/3 %
(b) 33 1/3 %
(c) 67 2/3 %
(d) 70 2/3 %

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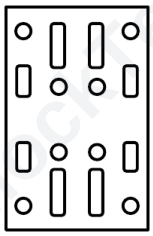
Q20. The length of the median of an equilateral triangle is 6√3 cm. The area of the triangle is:

(a) 36√3 cm2
(b) 36 cm2
(c) 72 cm2
(d) 72√3 cm2

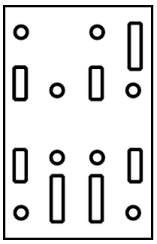
Q21. The sequence of folding a piece of paper and the manner in which the folded paper is cut is shown in the following figures. How would this paper look when unfolded?



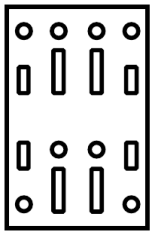
(a)



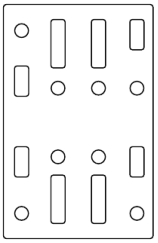
(b)



(c)



(d)



Q22. 21 is related to 147 following a certain logic. Following the same logic, 32 is related to 224. To which of the following is 52 related to, following the same logic?

(a) 356
(b) 364

(c) 365
(d) 346

Q23. Find out the correct alternative that when filled in the blanks in the same sequence will make the series logically complete.

LV _ J _ VFJ T _ GJ XVH _ BV _ J

(a) EPVJI
(b) DVJLE
(c) DBRPE
(d) EJBLR

Q24. Select the combination of letters that when sequentially placed in the blanks of the given series, will complete the series.

_ GGHG _ _ GG _ G _

(a) HGHHG
(b) GHHGH
(c) HGGHH
(d) HHHGH

Q25. Select the word-pair that best represents the same relationship expressed in the pair of words given below.

(The words should be treated as meaningful words and should not be related to each other on the basis of number of letters/consonants/vowels in the word.)

Stammer : Conversation

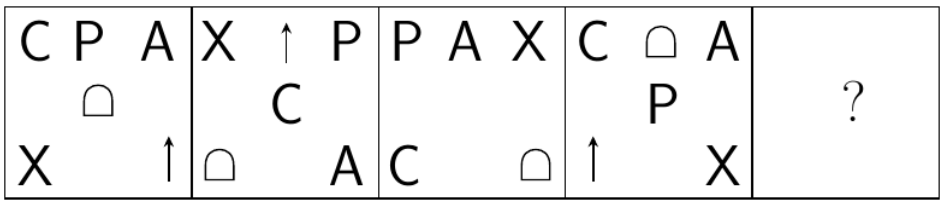
(a) Astigmatism : Vision
(b) To make noise : To hear
(c) Fragrance : Scent
(d) Novocaine : Touch

Q26. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

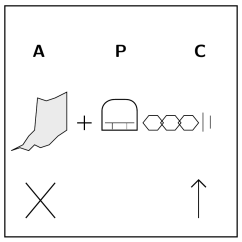
FQA, HTE, JWI, LZM, ?

(a) ODR
(b) NCQ
(c) MDP
(d) OEP

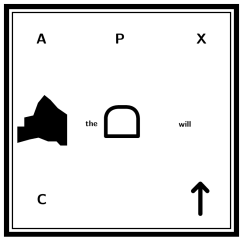
Q27. Which figure should replace the question mark (?) if the following figure series were to be continued?



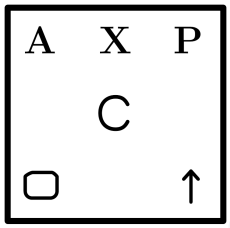
(a)



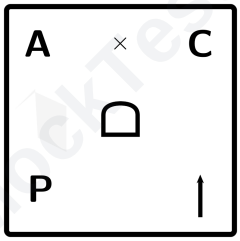
(b)



(c)



(d)



Q28. In a certain code language, 'CHEW' is coded as '39' and 'FORE' is coded as '44'. What is the code for 'GLIT' in the given code language?

(a) 48
(b) 51
(c) 50
(d) 52

Q29. What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

92 +18 ÷ 2 - 125 × 25 = ?

(a) 61
(b) 41
(c) 51
(d) 71

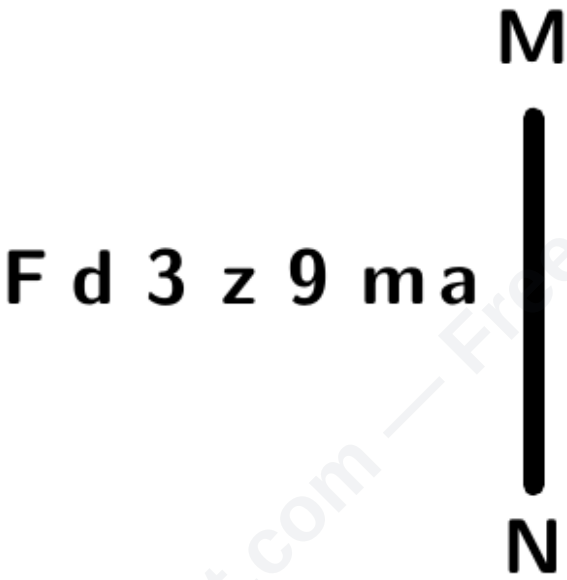
Q30. What should come in place of '?' in the given series?

22 24 28 36 52 ?

(a) 84
(b) 88
(c) 90
(d) 72

Q31. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

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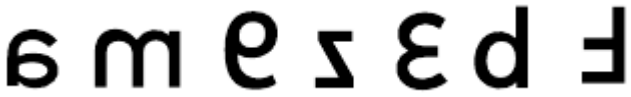
(a)



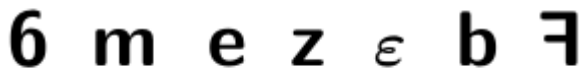
(b)



(c)



(d)



Q32. What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

93 ÷ 5 + 4 - 45 × 5 = ?

(a) 490
(b) 470
(c) 495
(d) 480

Q33. In a certain code language, 'OPEN' is coded as '4582' and 'PORE' is coded as '2385'. What is the code for 'R' in the given code language?

(a) 8
(b) 2
(c) 3
(d) 5

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Q34. What should come in place of ?' in the given series?

6 25 82 253 766 ?

(a) 2569
(b) 2491
(c) 2485
(d) 2305

Q35. Six people, C, D, E, F, G and H are sitting in a straight line, facing north. Only three people sit to the right of G. Only two people sit between G and E. C sits to the immediate right of F and to the immediate left of G. H is not the immediate neighbour of E.

Who are sitting between G and E?

(a) F and C
(b) C and D
(c) H and E
(d) H and D

Q36. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. 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)

11, 110

19,190

(a) 31, 310
(b) 22, 440
(c) 91, 190
(d) 51, 150

Q37. Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

Statements: Some sofas are teapots. All teapots are printers. Some printers are vases.

Conclusion I: Some teapots are sofas.

Conclusion II: Some vases are printers.

(a) Neither conclusion (I) nor (II) is follow.
(b) Only conclusion (II) is follow.
(c) Both conclusions (I) and (II) are follow.
(d) Only conclusion (I) is follow.

Q38. The position of how many letters will remain unchanged if each of the letter in the word 'TIMES' is arranged in alphabetical order?

(a) Two
(b) None
(c) Four
(d) One

Q39. What should come in place of '?' in the given series?

5 8 17 44 125 ?

(a) 391
(b) 312
(c) 368
(d) 283

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Q40. Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion's logically follow/s from the given statements.

Statements: All blenders are microwaves. Some microwaves are toasters. All toasters are lamps.

Conclusion I: Some blenders are microwaves.

Conclusion II: All toasters are blenders.

(a) Only conclusion (II) is follow.
(b) Both conclusions (I) and (II) are follow.
(c) Neither conclusion (I) nor (II) is follow.
(d) Only conclusion (I) is follow.

SESSION 2

Q41. How many elements are listed in the modern periodic table?

(a) 107
(b) 81
(c) 91
(d) 118

Q42. In which of the following States was the third edition of Khelo India University Games held?

(a) Jharkhand
(b) Uttar Pradesh
(c) New Delhi
(d) Punjab

Q43. Which country did India beat in the final to win the 2023 Intercontinental Cup Football championship?

(a) Thailand
(b) Lebanon
(c) Mongolia
(d) Vanuatu

Q44. In which state of India is shifting cultivation known as Bringa?

(a) Andhra Pradesh
(b) Manipur
(c) Odisha
(d) Madhya Pradesh

Q45. What does the acronym ‘ATM’ stand for?

(a) Automated Teller Machine
(b) Automated Transaction Management
(c) Account Tracking Module
(d) All-Time Money

Q46. Who had founded the first Women’s University in India?

(a) Dhondo Keshav Karve
(b) Ashutosh Mukherjee
(c) William Hunter
(d) Sayed Ahmed Khan

Q47. Devendra Jhajharia won which medal/place in World Para Athletics Grand Prix?

(a) Bronze
(b) Gold
(c) Silver
(d) Fourth

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Q48. In the process of cell division, the formation of phragmoplast between the two daughter nuclei occurs during:

(a) the G0 phase
(b) the cytokinesis
(c) the S phase
(d) the karyokinesis

Q49. In which type of forests are Mahogany, Rosewood and Cinchona trees found in India?

(a) Tropical Evergreen forests
(b) Tropical Deciduous forests
(c) Mangrove forests
(d) Montane forests

Q50. Lebang Boomani dance is the harvest dance of _____.

(a) Mizoram
(b) Tripura
(c) Assam
(d) Meghalaya

Q51. Why is it important to distinguish between final and intermediate goods/services in national income accounting?

(a) It helps track changes in consumer preferences and market demand.
(b) This helps in more accurate measurement of economic growth and productivity.
(c) Provides insight into the distribution of income among different sectors.
(d) It helps to determine the overall quality of goods and services produced.

Q52. Which of the following is NOT a directive principle of state policy?

(a) Separation of the judiciary from executive
(b) Reside in any part of India
(c) Uniform civil code
(d) Protection of monuments

Q53. In which state is the Sanchi Stupa situated?

(a) Bihar
(b) Uttar Pradesh
(c) Gujarat
(d) Madhya Pradesh

Q54. Who is the nominal executive authority of India?

(a) Vice President
(b) Attorney General
(c) President
(d) Prime Minister

Q55. Who among the following is the author of the book, ‘Unfinished: A Memoir’?

(a) Alia Bhatt
(b) Priyanka Chopra
(c) Deepika Padukone
(d) Kareena Kapoor

Q56. The South China Sea is a part of which of the following oceans?

(a) Arctic Ocean
(b) Pacific Ocean
(c) Southern Ocean
(d) Indian Ocean

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Q57. The official language of which neighbouring country of India is 'Dhivehi'?

(a) Maldives
(b) Sri Lanka
(c) Bhutan
(d) China

Q58. Under which scheme of Airport Authority of India did the Jammu and Kashmir Lieutenant Governor inaugurate UMEED Market Place at Srinagar international airport for supporting local art and artisans of Self Help Groups of J&K Rural Livelihood Mission?

(a) AVSAR Scheme
(b) AKASH Scheme
(c) AAKAR Scheme
(d) ASAR Scheme

Q59. Who was the Iranian ruler who attacked the city of Delhi and took away an immense amount of wealth in 1739?

(a) Ahmad Shah Qajar
(b) Nadir Shah
(c) Ahmad Shah Abdali
(d) Abbas I

Q60. Pandit Bhimsen Joshi belonged to the _____ Gharana.

(a) Banaras
(b) Kirana
(c) Agra
(d) Dilli

Q61. Mahari Dance and Gotipua Dance belongs to which of the following states?

(a) Odisha
(b) Haryana
(c) Uttar Pradesh
(d) Bihar

Q62. Identify the WRONG pair of dancer and the related dance form from the following.

(a) Meenakshi Chitharanjan - Bharatanatyam
(b) Kumkum Dhar - Kuchipudi
(c) Sruti Bandopadhay - Manipuri
(d) Trilochan Mohanta - Chhau

Q63. Which of the following musicians is popularly known as 'Panchamda'?

(a) Ravi
(b) Khayam
(c) Naushad
(d) RD Burman

Q64. The 'Mukteshwar' dance festival is held from 14th to 16th January at the Mukteshwar temple in the state of _____.

(a) Uttarakhand
(b) Odisha
(c) Madhya Pradesh
(d) Himachal Pradesh

Q65. Select from among the given options the autobiography of Milkha Singh.

(a) A Shot at History
(b) The Race of My Life
(c) The Test of My Life

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(d) One Life Is Not Enough

Q66. Parts of the following sentence have been underlined and given as options. Select the option that contains an error.

For an all-too-brief period between the late 1980s and the late 2000s, a world was characterised by convergence.

(a) between the late
(b) For an all-too-brief
(c) characterised by
(d) a world was

Q67. The sentence given below has spelling errors. Select the sentence without spelling errors.

Let us appriciate, support and contribute our might to the promotional efforts of the community in this direction.

(a) Let us appriciate, support and contribute our might to the promotional efforts of the comunity in this direction.
(b) Let us appreciate, suport and contribute our might to the promotional efforts of the community in this direction.
(c) Let us appriciate, support and contribute our might to the promotion all efforts of the community in this direction.
(d) Let us appreciate, support and contribute our might to the promotional efforts of the community in this direction.

Q68. Select the most appropriate option to fill in the blank.

The team had a _____ with respect to the proposal given by Mr. Albert.

(a) descussion
(b) discusion
(c) disckassion
(d) discussion

Q69. Select the option that can be used as a one-word substitute for the given group of words.

A thing which happens every two years

(a) Century
(b) Annual
(c) Biennial
(d) Bi-monthly

Q70. Select the most appropriate option that can substitute the underlined words in the following sentence.

Ramya’s shoes are polish by her granddaughter.

(a) polishes
(b) had polished
(c) are polished
(d) is polish

Q71. Select the most appropriate idiom to fill in the blank.

I don’t think you should go out in the rain, it's _____.

(a) rain on cats and dogs
(b) storming cats and dogs
(c) raining cats and dogs
(d) raining dogs and puppies

Q72. Select the most appropriate meaning of the given idiom.

To keep one’s temper

(a) To meet with disaster
(b) To become impatient
(c) To become angry
(d) To remain calm

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Q73. Select the correct spelling of the underlined word in the following sentence.

Today's lecture had a profond impact on my friend.

(a) profoun
(b) prufound
(c) prefound
(d) profound

Q74. Select the most appropriate meaning of the given idiom.

To get cold feet

(a) To be afraid
(b) To fall sick
(c) To be indifferent
(d) To run for life

Q75. Select the most appropriate ANTONYM of the underlined word.

His amazing performance made him famous.

(a) Ordinary
(b) Colliery
(c) Adversary
(d) Binary

Q76. Select the most appropriate option that can substitute the underlined segment in the given sentence.

The food was too salty eat this morning.

(a) eating
(b) ate
(c) to ate
(d) to eat

Q77. Select the most appropriate synonym of the given word.

Elegant

(a) Mighty
(b) Graceful
(c) Ugly
(d) Tall

Q78. Parts of the following sentence have been underlined and given as options. Select the option that contains an error.

I will going on an official tour next week.

(a) on
(b) will going
(c) next week
(d) an official tour

Q79. Parts of the following sentence have been given as options. Select the option that contains an error.

Shelley and Keats are great writers, but I prefer the last.

(a) the last
(b) are great writers
(c) but I prefer
(d) Shelley and Keats

Q80. Select the most appropriate synonym of the given word.

Design

(a) Fabricate
(b) Destroy
(c) Inspect

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(d) Copy

Q81. Select the option that can be used as a one-word substitute for the given phrase.

A person who is known for his hatred towards the entire mankind.

(a) Insolvent
(b) Philogynist
(c) Mercenary
(d) Misanthrope

Q82. Parts of the following sentence have been given as options. Select the option that contains an error.

Jaya said that she will become topper in her class.

(a) in her class
(b) she will become topper
(c) that
(d) Jaya said

Q83. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Some / private banks / pay their employees / good.

(a) private banks
(b) Some
(c) pay their employees
(d) good

Q84. Select the most appropriate meaning of the given idiom.

Break the ice

(a) To say something that makes strangers uncomfortable
(b) To say something that makes people who are meeting for the first time more comfortable
(c) To say something that makes people excited for a group project
(d) To say something mean to people in a group

Q85. Select the option that can be used as a one-word substitute for the given phrase.

A poem of lamentation on the death of someone loved and admired.

(a) Soliloquy
(b) Elegy
(c) Tragedy
(d) Epitaph

Directions

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Language is (1)_____ of the most fundamental aspects of human communication and interaction. It allows people from different cultures to connect and (2) ___ ideas. While many individuals grow up learning just one language, there are a variety of reasons why learning a second language can be beneficial. (3) _____, it can improve cognitive abilities, enhance job prospects and facilitate travel and cultural immersion. (4)____ proficiency in a second language is an invaluable asset for personal growth as well as professional development. Audio-video mediums such as (5)_____ are among the best ways to learn a second language as they allow learners to engage with cultural content.

Q86. Select the most appropriate option to fill in blank number 1.

(a) three
(b) four
(c) two
(d) one

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Q87. Select the most appropriate option to fill in blank number 2.

(a) sharing
(b) share
(c) shares
(d) shared

Q88. Select the most appropriate option to fill in blank number 3.

(a) Therefore
(b) As it is
(c) However
(d) For example

Q89. Select the most appropriate option to fill in blank number 4.

(a) Acquiring
(b) Acquires
(c) Acquire
(d) Acquired

Q90. Select the most appropriate option to fill in blank number 5.

(a) podcasts
(b) images
(c) books
(d) films

ANSWER KEY

1	a	2	a	3	a	4	a	5	a	6	a	7	a	8	a	9	a	10	a
11	a	12	a	13	a	14	a	15	a	16	a	17	a	18	a	19	a	20	a
21	a	22	a	23	a	24	a	25	a	26	a	27	a	28	a	29	a	30	a
31	a	32	a	33	a	34	a	35	a	36	a	37	a	38	a	39	a	40	a
41	a	42	a	43	a	44	a	45	a	46	a	47	a	48	a	49	a	50	a
51	a	52	a	53	a	54	a	55	a	56	a	57	a	58	a	59	a	60	a
61	a	62	a	63	a	64	a	65	a	66	a	67	a	68	a	69	a	70	a
71	a	72	a	73	a	74	a	75	a	76	a	77	a	78	a	79	a	80	a
81	a	82	a	83	a	84	a	85	a	86	a	87	a	88	a	89	a	90	a

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