SSC MTS 2023 Official Paper (Held On: 12 Sept, 2023 Shift 2) (Previous Year Paper)

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

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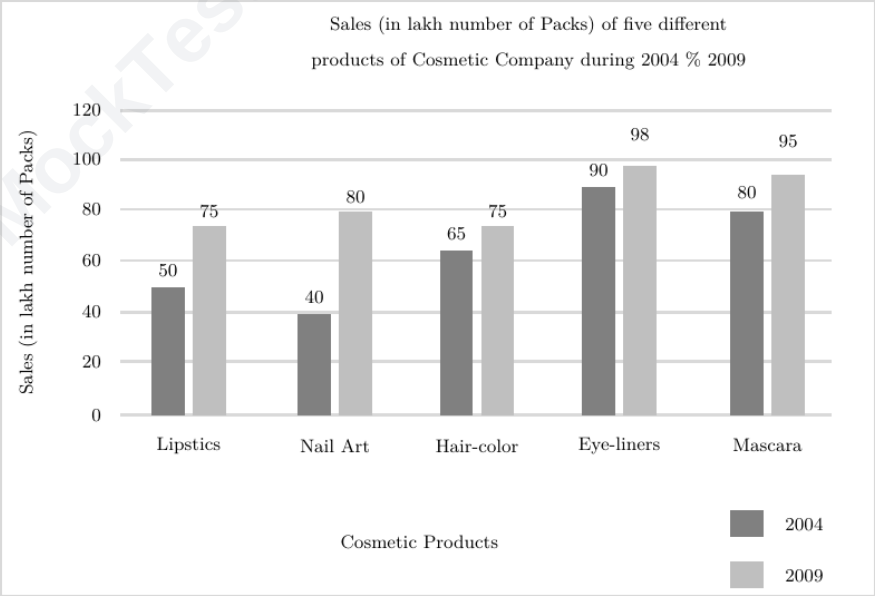
Practise under exam conditions, then review your answers after you submit.

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SESSION 1

Q1. The following bar graph shows the sales (in lakh numbers of packs) of five cosmetic products by a company between 2004 and 2009. Study the bar graph and answer the question based on it.



Reference: Sales (in lakh number of packs) of following five different products of Cosmetic company during 2004 and 2009, Sales (in lakh number of packs), Cosmetic products, Lipstics, Nail Art, Hair color, Eyeliners, Mascara

What is the percentage increase (rounded off to the nearest integer) in the average sales of all cosmetic products together in 2009 as compared to 2004?

(a) 36%
(b) 30%
(c) 28%
(d) 33%

Q2. What is the value of ([1/5÷ 1/5× 1/5]× 1/5)/([1/9+1/9× 1/9]× 1/10)+(1-6/25)=?

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

Q3. The average score of 22 players in an IPL match is 72. Out of these 22 players, the average score of 10 players is 80. the next 5 players got an average score of 75 and the rest 5 players got an average of 55. Then the average score of the remaining two players is:

(a) 65
(b) 67

(c) 72
(d) 80

Q4. The product of two numbers is 4107. If the HCF of these numbers is 37, then the greater number is:
(a) 111
(b) 74
(c) 185
(d) 37

Q5. If the diameter of a solid sphere is 42 cm, then the surface area of the sphere is: (use π = 22/7)
(a) 5854 cm^2
(b) 3256 cm^2
(c) 5544 cm^2
(d) 6897 cm^2

Q6. A and B can do a piece of work in 18 and 36 days. respectively. They start working together but A leaves after 3 days. How much time will B tale to complete the remaining work?
(a) 22 days
(b) 24 days
(c) 30 days
(d) 27 days

Q7. When x = 1 and y = 8, y is directly proportional to x + 3. When z = 6 and x = 2, x is inversely proportional to z. Find the relation between y and z.
(a) (y - 6)/z = 24
(b) (y - 6)/z = 12
(c) z(y - 6) = 12
(d) z(y - 6) = 24

Q8. Sandeep drives a distance of 500 metres to a store in 175 seconds. Then he drives 400 metres to another store in 125 seconds. What is his average speed (in m/s)?
(a) 3.5
(b) 3
(c) 2
(d) 2.5

Q9. A taxi goes from city P to city Q at an average speed of 60 km/h. On the return journey, due to traffic, the average speed of the taxi falls by 20 km/h. Find the average speed of a taxi (in km/h) for the entire journey.
(a) 46
(b) 40
(c) 42
(d) 48

Q10. Two places A and B are 60 km apart from each other on a highway. A car starts from A and another car from B at the same time. If they move in the same direction, they meet each other in 6 hours, If they move in the opposite direction towards each other, they meet in 1 hour 30 minutes. Find the speeds of the cars (in km/h).
(a) 15, 18
(b) 15, 20
(c) 25, 15
(d) 25, 20

Q11. A conical tent is set to accommodate 15 persons. Each person must have 5 square metres of space on the ground and 30 cubic metres of air to breathe. What is the height of the cone?
(a) 15 m
(b) 22 m
(c) 13 m

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(d) 18 m

Q12. A thief is spotted by a policeman from a distance of 249 m. When the policeman starts the chase, the thief also starts running. Assuming the speed of the thief is 4 m/s and that of the policeman is 7 m/s, how far the thief would have run before he is overtaken by the policeman?

(a) 521 m
(b) 332 m
(c) 747 m
(d) 249 m

Q13. Find the simple interest on Rs. 8,000 at the rate of 10% per annum in 6 years.

(a) Rs. 4,200
(b) Rs. 4,400
(c) Rs. 4,800
(d) Rs. 4,600

Q14. By selling at a loss of 12% instead of a loss of 18% an article sells for Rs. 120 more. Find its CP.

(a) Rs. 2,100
(b) Rs. 2,000
(c) Rs. 1,500
(d) Rs. 1,800

Q15. If due to a 12% decrease in the price of sugar, Akshar can buy 7 kg more sugar for Rs. 1,200, then find the actual price (in Rs.) of sugar. (Rounded off to 2 decimal places)

(a) 23.38
(b) 28.25
(c) 25.79
(d) 26.35

Q16. The ratio of number of students in schools A and B is 5 : 8. If the number of students in schools A and B is increased by 20% and 15%, respectively, find the new ratio of students in schools A and B. respectively.

(a) 15 : 23
(b) 15 : 13
(c) 13 : 15
(d) 12 : 13

Q17. Study the following table carefully and answer the question that follows.

The table shows the total production (in thousands) of Company 1, Company 2, Company 3 and Company 4 in four different years.

Year	Total Production company 1	Total Production Company 2	Total Production Company 3	Total Production Company 4
2019	65	76	64	76
2020	88	85	72	68
2021	84	75	68	96
2022	71	84	76	72

Which company has the maximum average of production from the year 2019 to 2022?

(a) Company 2
(b) Company 4
(c) Company 1
(d) Company 3

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Q18. Working 6 hours a day, 15 persons can complete a certain work in 26 days. In how many days would 13 persons complete the same work, working 10 hours a day?

(a) 17
(b) 15
(c) 20
(d) 18

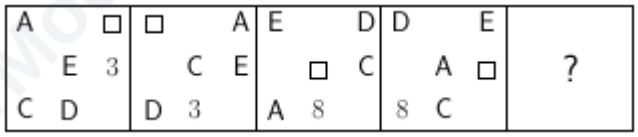
Q19. Raman buys an article for Rs. 1,00,000 and sells it to Mohit for Rs. 1,20,000. Mohit again sells the same article to Rashmi for Rs. 1,00,000. What is the percentage loss faced by Mohit?

(a) 162/3%
(b) 181/3%
(c) 20%
(d) 15%

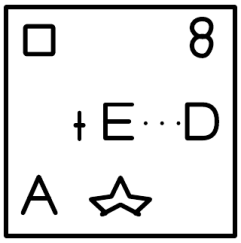
Q20. A bank offers compound interest at the rate 5% per annum calculated half yearly on its deposits. A customer deposits Rs. 2,400 each on 1st January and 1st July of a year. Find the amount be received at the end of the year.

(a) Rs. 180.50
(b) Rs. 4,981.50
(c) Rs. 181.50
(d) Rs. 4,081.50

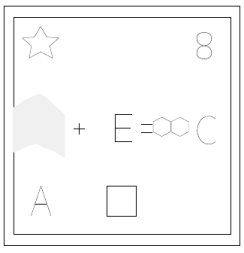
Q21. Which figure should replace the question mark (?) if the following figure series were to be continued?



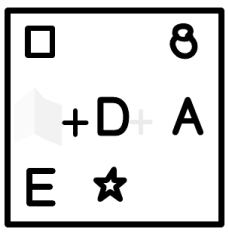
(a)



(b)

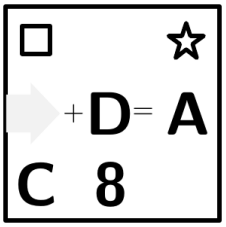


(c)

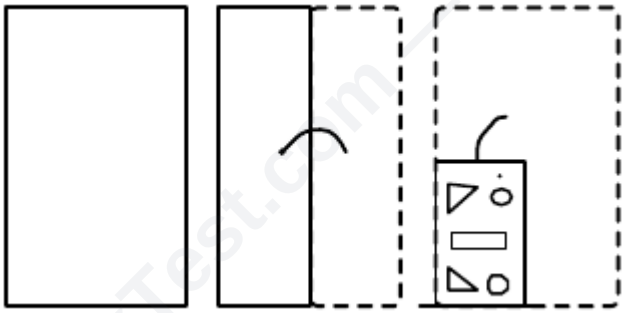


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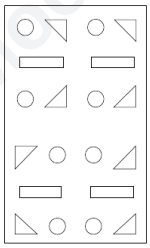
(d)



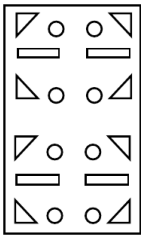
Q22. The sequence of folding a piece of paper and the manner in which the folded paper is cut is shown in the following figures. How would this paper look when unfolded?



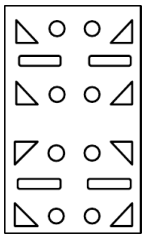
(a)



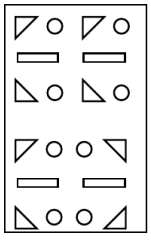
(b)



(c)



(d)



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Q23. In a certain code language, 'DROP' is coded as '9375' and 'POND' is coded as '7839'. What is the code for 'N' in the given code language?

(a) 3
(b) 7
(c) 8
(d) 9

Q24. 2 is related to 5 following a certain logic. Following the same logic, 6 is related to 37. To which of the following is 9 related to, following the same logic?

(a) 81
(b) 83
(c) 82
(d) 84

Q25. If 4 December 1987 is a Friday, then what will be the day of the week on 12 December 2009?

(a) Sunday
(b) Friday
(c) Wednesday
(d) Saturday

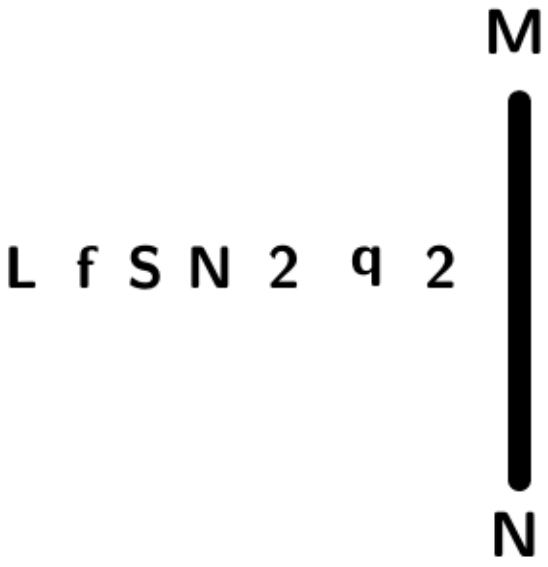
Q26. Ranjan, Pari, Yash, Charu, Reetu and Gunjan are sitting around a circular table facing the centre.

Ranjan sits 3rd to the left of Pari. Yash sits 2nd to the left of Ranjan. Charu sits 2nd to the right of Ranjan. Reetu is an immediate neighbour of Charu.

Who sits 2nd to the right of Pari?

(a) Yash
(b) Reetu
(c) Gunjan
(d) Charu

Q27. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



(b)



(c)



(d)

S p Z N e f J

Q28. What should come in place of '?' in the given series?

8 27 84 255 768 ?

(a) 2235
(b) 2297
(c) 2307
(d) 2271

Q29. Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).

Statements:

Some cows are crows.

Some crows are elephants.

Conclusions:

(I) Some cows are elephants.

(II) All crows are elephants.

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

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

108 103 98 93 88 ?

(a) 82
(b) 83
(c) 84
(d) 81

Q31. If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

27 B 3 C (54 A 2) B 5 D 55 = ?

(a) 161
(b) 167
(c) 153
(d) 159

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Q32. What should come in place of ? in the given series?

227 226 218 191 127 ?

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

Q33. PD 17 is related to TH 19 in a certain way. In the same way, HK 23 is related to LO 29. Following the same logic, FJ 11 is related to which of the following?

(a) IM 13
(b) HL 17
(c) IN 15
(d) JN 13

Q34. What should come in place of? in the given series based on the English alphabetical order?

BPR, FRV, JTZ, NVD, ?

(a) QYG
(b) SXI
(c) QXG
(d) RXH

Q35. What should come in place of ? in the given series based on the English alphabetical order?

ZKP, DHR, HET, LBV, ?

(a) PYX
(b) QZY
(c) RYX
(d) QYZ

Q36. 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)

(32, 99, 67)

(22, 77, 55)

(a) 53, 98, 33
(b) 23, 87, 64
(c) 35, 87, 12
(d) 12, 45, 14

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 alphabets are chairs.

Some chairs are high.

All high are buildings

Conclusion I: Some alphabets are buildings.

Conclusion II: Some high are buildings.

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

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Q38. What should come in place of ? in the given series based on the English alphabetical order?

JVC, LXD, NZE, PBF, ?

(a) QCF
(b) RDG
(c) SCH
(d) QDH

Q39. In a certain code language, 'CRAFT' is coded as 'DSBGU' and ‘FRIDAY' is coded as 'GSJEBZ’. What is the code for 'MANGO' in the given code language?

(a) NBOHP
(b) MBPGQ
(c) NCOGQ
(d) MCOGP

Q40. What will come in the place of '?' in the following equation, if '+' and ‘-' are interchanged and '×' and '÷' are interchanged?

83 + 17 ÷ 4 - 64 × 16 = ?

(a) 29
(b) 9
(c) 19
(d) 18

SESSION 2

Q41. How many countries participated in the FIFA U-17 Women's World Cup 2022?

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

Q42. ‘Wings of Fire’ is the autobiography of a former president of India. Who is he?

(a) Shankar Dayal Sharma
(b) APJ Abdul Kalam
(c) Zakir Hussain
(d) VV Giri

Q43. In which of the following states is the Statue of Unity situated?

(a) Gujarat
(b) Rajasthan
(c) Maharashtra
(d) Punjab

Q44. When was the Defence of India Act enacted?

(a) 1920
(b) 1918
(c) 1915
(d) 1921

Q45. Which festival brings out the fusion rich culture of Chhattisgarh and Odisha?

(a) Rath Yatra
(b) Bastar Goncha
(c) Shoolini fair
(d) Madhavpur fair

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Q46. Which flag of the Indian National Congress was adopted in 1931?

(a) A two colour flag with charkha made by cloth
(b) A tricolour flag made by Khadi with a Charkha symbol
(c) One colour flag with charkha symbol
(d) A blue colour flag made by cloth

Q47. Among the following pairs, which ones denote two scalar quantities?

(a) Momentum and Angular velocity
(b) Distance and Speed
(c) Linear momentum and Acceleration
(d) Electric field and Force

Q48. Which of the following music directors won the Oscar award in the year 2009?

(a) Bappi Lahiri
(b) AR Rahman
(c) Vishal Bhardwaj
(d) Rajesh Roshan

Q49. Which of the following vitamins prevents major birth defects of the brain and spine of a newborn baby?

(a) Vitamin E
(b) Vitamin A
(c) Vitamin C
(d) Folic acid

Q50. In India, the National Sports Day is celebrated on which date?

(a) 6th December
(b) 29th August
(c) 1st September
(d) 14th November

Q51. Who among the following was the founding member of Sri Sai Nataraja Academy of Kuchipudi that offers training and higher studies in Kuchipudi?

(a) P Ramadevi
(b) Kaushalya Reddy
(c) Yamini Krishnamurthy
(d) Aparna Satheesan

Q52. Which of the following playback singers of India received the Padma Shri in 2009 and Padma Bhushan in 2016?

(a) Sonu Nigam
(b) Abhijit Bhattacharya
(c) Kumar Sanu Bhattacharjee
(d) Udit Narayan Jha

Q53. When the 'trans-boundary economic activities' of an economy and depreciation are included into account, the aggregate measure is known as _____.

(a) GNP
(b) NNP
(c) PCI
(d) GDP

Q54. Tamil Nadu's _____ marked a national record in men's long jump in the second AFI National Jumps Competition in March 2023.

(a) Suresh Babu
(b) Anees Yahiya
(c) Murali Sreeshankar

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(d) Jeswin Aldrin

Q55. On the arrival of spring, the village of _____ resounds with the sweet singing of Bagurumba.

(a) Bodo
(b) Khasi
(c) Garo
(d) Karbi

Q56. Which mountain range from the following is associated with Rajasthan state?

(a) Satpura Range
(b) Sahyadri Range
(c) Aravalli Range
(d) Vindhya Range

Q57. According to the National Multidimensional Poverty Index 2021, which state has the lowest percentage of population being multidimensionally poor

(a) Kerala
(b) Uttar Pradesh
(c) Madhya Pradesh
(d) Rajasthan

Q58. Which of the following represents disposable income?

(a) The income earned by individuals and households after taxes and other deductions
(b) The total income earned by businesses and corporations in an economy
(c) The income earned by individuals through their own business or self-employment
(d) The total income earned by individuals and households before taxes and other deductions

Q59. Which of the following states receives rainfall during the winter season?

(a) Tamil Nadu
(b) Jharkhand
(c) Maharashtra
(d) Rajasthan

Q60. Who among the following is the author of the book ‘Revolution 2020°?

(a) Chetan Bhagat
(b) Omair Ahmad
(c) Siddhartha Sarma
(d) Joy Goswami

Q61. Who was our first Prime Minister?

(a) Rajendra Prasad
(b) Indira Gandhi
(c) Jawaharlal Nehru
(d) Gulzarilal Nanda

Q62. Which state is ranked fourth in India according to the first Multidimensional Poverty Index (MPI) 2021 report of the NITI Aayog?

(a) Meghalaya
(b) Madhya Pradesh
(c) Assam
(d) Himachal Pradesh

Q63. Which Schedule of the Indian Constitution deals with the division of powers between the Union and the states?

(a) 9^(th)
(b) 7^(th)
(c) 5^(th)

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(d) 2^(nd)

Q64. What is the name of the scheme launched by the Government of India for the financial inclusion of path or street vendors, whose anniversary was celebrated from July 9 to July 31, 2022?

(a) PM AVASNidhi Scheme
(b) PM SVAdhin Scheme
(c) PM SVANidhi Scheme
(d) PM SVAdhar Scheme

Q65. Renowned _____ folk dance artist Domar Singh Kunwar, who has dedicated his life to preserving the tradition of the dance for over five decades, was awarded the Padma Shri 2023.

(a) Pandwani
(b) Raut Nacha
(c) Natya Nacha
(d) Soowa

Q66. Select the most appropriate meaning of the given idiom.

Beat around the bush

(a) To avoid talking about what is important
(b) To talk about important things
(c) To have patience
(d) To avoid people

Q67. Select the option that can be used as a one-word substitute for the given group of words.

A person who is kept captive for fulfilment of demands of money or conditions.

(a) Doyen
(b) Bait
(c) Hostage
(d) Scion

Q68. Select the most appropriate synonym of the given word.

Peril

(a) Danger
(b) Entertainment
(c) Joke
(d) Ignorance

Q69. There is a spelling error in the given sentence. Select the option that contains the INCORRECTLY spelt word.

As per manager’s opinion, the laser sprinkler malfuntioned.

(a) malfuntioned
(b) sprinkle
(c) laser
(d) opinion

Q70. Select the most appropriate ANTONYM of the given word.

Amiable

(a) Restless
(b) Unfriendly
(c) Sad
(d) Joyful

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

Rahul speaks easily in front of a small group, but he seems _____ before a large audience.

(a) ill at ease
(b) think ill of

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(c) man of ill repute
(d) ill-disposed to

Q72. Select the most appropriate idiom for the following sentence.

He made the business profitable from unprofitable in about a year of joining.

(a) Easy come, easy go
(b) Throw up
(c) Where there is a will, there is a way
(d) Still waters run deep

Q73. Parts of the following sentence have been underlined and given as options. Select the option that contains a misspelt word.

Obesity is rapidly becoming the leading cause of prevantable deaths in the United States.

(a) rapidly
(b) leading
(c) obesity
(d) prevantable

Q74. Identify and correct the INCORRECTLY spelt word in the given sentence.

Sliding each bead from one side to the other, the student used the abacus to count out the nember of days in a week.

(a) beed
(b) number
(c) Slaiding
(d) abacuss

Q75. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement required'.

Very early in the morning, at the beginning of January, Opu was lying in bed waiting for the sun having rose.

(a) waited for the sun rising
(b) waited for the sun having rose
(c) No improvement required
(d) waiting for the sun to rise

Q76. Choose the sentence that contains an error.

(a) I love the taste of fresh strawberries in the summer.
(b) She is the winner of the Nobel Peace Prize.
(c) He is chef who specialises in Italian cuisine.
(d) The Earth revolves around the Sun.

Q77. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement required'.

Newton, after seeing the apple falling from a tree, began to wonder whether if it moved towards the earth and not upwards towards the sky.

(a) No improvement required
(b) began to wondering if
(c) began his wondering how
(d) began to wonder why

Q78. Select the most appropriate option that can substitute the underlined word in the following sentence.

They serve stuffed garlic bread and molten chocolate in the birthday party of their son, Parth, last week.

(a) served
(b) serves
(c) are serving
(d) be served

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Q79. Select the most appropriate synonym of the given word.

Barbed

(a) Passive
(b) Kind
(c) Gentle
(d) Spiteful

Q80. Select the most appropriate meaning of the underlined segment in the given sentence.

I can't believe you let the cat out of the bag about my surprise party!

(a) Ask a question
(b) Reveal a secret
(c) Keep a secret
(d) Make a joke

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

Endless period of time

(a) Eternity
(b) Longevity
(c) Impurity
(d) Frailty

Q82. Parts of the given sentence have been underlined. One of them contains an error. The underlined parts are given as options with some changes. Select the option that correctly rectifies the error.

Sohan is the older brother of my best friend.

(a) to my
(b) an
(c) elder
(d) good

Q83. Parts of the following sentence have been underlined and given as options. Select the option that contains an error.

We think of the history of the world as fixed but of the future as undecided and open to a wealth off possibilities.

(a) of the history
(b) as undecided
(c) as fixed
(d) wealth off

Q84. Parts of the following sentence have been given as options. Select the option that contains an error.

My teacher told me that / all that / glitters was not gold.

(a) My teacher told me that
(b) all that
(c) glitters was not gold
(d) No error

Q85. Parts of the following sentence have been underlined and given as options. Select the option that contains an error.

When I bought the book, I thought it will be interesting.

(a) When
(b) bought
(c) will
(d) thought

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.

Education should be free to all because it is a (1) human right. It is essential for the (2)_ of a fully functioning society and for the

advancement of humanity. While some argue that education should not be free because it has value or that free education would be a (3) on taxpayers, the reality is that education is a public good that (4) everyone in society. Not only does education provide individuals with the skills and knowledge they need to participate in the workforce, but it also improves social cohesion and creates more (5)__ citizens.

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

(a) lovely
(b) precious
(c) fundamental
(d) joyful

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

(a) celebration
(b) development
(c) enthusiasm
(d) distribution

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

(a) focus
(b) contentment
(c) burden
(d) blessing

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

(a) sections
(b) emphasizes
(c) burdens
(d) benefits

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

(a) easy going
(b) apprehensive
(c) productive
(d) authentic

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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