SSC MTS 2024 Official Paper (Held On: 17 Oct, 2024 Shift 2) (Previous Year Paper)

SSC Multi-Tasking Staff (MTS) • 2024 • 90 questions • 90 minutes • Answer key

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SESSION 1

Q1. Find the simple interest (in Rs.) on Rs. 2000 as a sum borrowed at 7% per year rate of interest for 6 years.

(a) 880
(b) 780
(c) 800
(d) 840

Q2. Find the gain percentage, given that Aditi sold her scooter for Rs. 40675 gaining 1/5 of the selling price.

(a) 5%
(b) 25%
(c) 15%
(d) 35%

Q3. Find the simple interest (in Rs.) on Rs. 2500 as a sum borrowed at 5% per year rate of interest for 3 years.

(a) 415
(b) 375
(c) 315
(d) 335

Q4. Five athletes are weighed consecutively, and after each measurement, their average weight is calculated. If the average weight increases by 1.5 kg each time, then how much heavier is the last player than the first player?

(a) 18 kg
(b) 15.5 kg
(c) 10 kg
(d) 12 kg

Q5. In what proportion must a man mix milk worth Rs. 3.3/litre with milk worth Rs. 1.8/litre so that the mixture may be worth Rs. 2.4/litre?

(a) 2 : 3
(b) 4 : 5
(c) 3 : 2
(d) 1 : 3

Q6. The following table shows the number of students from five different schools who have participated in football and cricket.

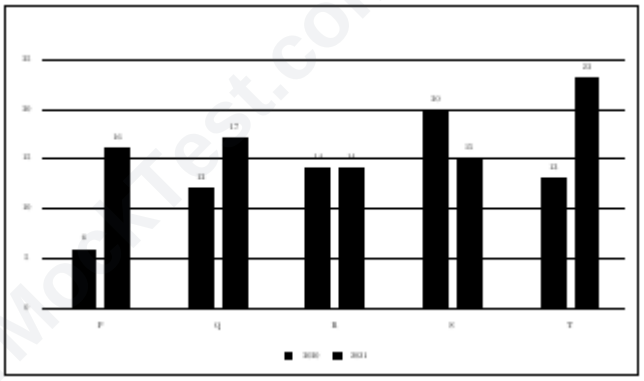
School	Total Students	Percentage of students participating in:	
Football	Cricket		
A	660	15%	35%

B	800	23%	37%
C	600	30%	50%
D	500	35%	35%
E	1000	25%	30%

From which two schools have an equal percentage of students participated in cricket?

(a) A and D
(b) B and C
(c) C and E
(d) B and D

Q7. The following graph represents the production of electric scooters (in thousands) for the years 2020 and 2021 from five manufacturers P, Q, R, S, and T.



The ratio of the average production by all manufacturers in 2021 to the average production by all manufacturers in 2020 is:

(a) 17:13
(b) 13:14
(c) 14:15
(d) 15:17

Q8. Ramesh purchased a piano, marked at Rs. 18,000 at successive discounts of 12% and 15%, respectively. Ramesh gave Rs. 536 as transportation charge and sold it at Rs. 21,000. What is his gain percentage?

(a) 35%
(b) 40%
(c) 48%
(d) 50%

Q9. Rakesh obtained a simple interest of Rs. 3,195 on a certain principal in 6 years at the rate of 15% per annum. What amount of simple interest would he get if he invested Rs. 1,250 more than the previous principal for 3 years at the same rate of interest?

(a) Rs. 2,255
(b) Rs. 2,160
(c) Rs. 2,050
(d) Rs. 2,400

Q10. It takes 15 seconds for a 375-m long train to pass a pole. How long will it take to pass a 975-m long platform?

(a) 90 seconds
(b) 72 seconds
(c) 54 seconds
(d) 60 seconds

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Q11. If the marked price of an article is 4/3 times the cost price and the selling price is 9/11 times the marked price, then what is the profit/loss percentage?

(a) 9 1/2% profit
(b) 9 1/2% loss
(c) 9 1/11% profit
(d) 9 1/11% loss

Q12. The average age of a class of 39 students is 20 years. If the age of the teacher is included, then the average increases by 6 months. Find the age of the teacher (in years).

(a) 30
(b) 50
(c) 40
(d) 45

Q13. A conical cavity is drilled in a solid circular cylinder of 7 cm height and 48 cm base diameter. The height and base diameter of the cone are the same as those of the cylinder. What is the total surface area of the remaining solid?

(a) 1512 π cm^2
(b) 1076 π cm^2
(c) 1420 π cm^2
(d) 1654 π cm^2

Q14. Shankar comes to buy a T-shirt in a showroom. He purchases a shirt which costs Rs. 1,020 after a discount. He pays his bill in the form of 50 paise, 20 paise and 10 paise coins in the ratio 2 : 3 : 4 (assume for the sake of the problem). What is the number of 10 paise coins he used to pay his bill?

(a) 1530
(b) 510
(c) 1020
(d) 2040

Q15. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 71 kg and 38 kg is:

(a) 50.8
(b) 49.8
(c) 52.8
(d) 51.8

Q16. The greatest number of four digits which is divisible by each one of the numbers 15, 25, 40 and 75 is:

(a) 9500
(b) 9600
(c) 9400
(d) 9800

Q17. What is the cost of a tadpole required to make a conical tent with slant height 15 m and height 9 m, when one square meter tadpole costs Rs. 147?

(a) Rs.67,842
(b) Rs.83,160
(c) Rs.62,370
(d) Rs.49,896

Q18. When the price of a laptop was reduced by 15%, its sales increased by 10%. What was the net effect on the sale?

(a) 6.5% increase
(b) 6.5% decrease
(c) 3.5% decrease
(d) 3.5% increase

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Q19. A thief steels a bike at 10:30 am and drives it at 50 km/hr. But the thief is found after half an hour. The bike owner started to chase him by another bike at 60 km/hr. The time at which the thief is caught is:

(a) 1:30 pm
(b) 2:30 pm
(c) 12:30 pm
(d) 1:00 pm

Q20. The diameter of a right circular cone is 56 metres and its slant height is 35 metres. Find its volume (rounded off to the nearest integer). (Take $\pi = 22/7$)

(a) 17,248 m^3
(b) 12,936 m^3
(c) 25,872 m^3
(d) 28,747 m^3

Q21. 17 is related to 119 following a certain logic. Following the same logic, 31 is related to 217. To which of the following is 32 related, following the same logic?

(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.)

(a) 230
(b) 226
(c) 228
(d) 224

Q22. 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 their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(37, 58, 100)

(35, 70, 110)

(a) (8, 13, 26)
(b) (74, 33, 12)
(c) (43, 44, 132)
(d) (85, 75, 65)

Q23. A, B, C, D, E, F and G are sitting around a circular table facing the centre (but not necessarily in the same order).

Only one person sits between D and A when counted from the right of D. Only one person sits between A and B. Only one person sits between D and G. Only two people sit between E and B, when counted from the right of E. Only one person sits between F and G.

Who sits third to the right of C?

(a) F
(b) A
(c) D
(d) B

Q24. 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 boxes are glasses.

All glasses are cups.

Some cups are bottles.

Conclusions:

(I): All boxes are cups.

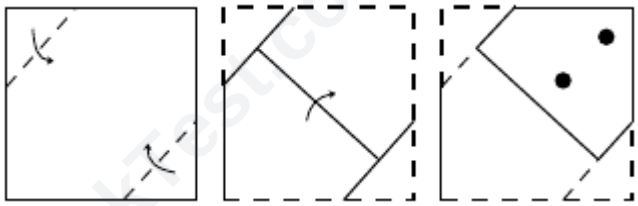
(II): Some glasses are bottles.

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

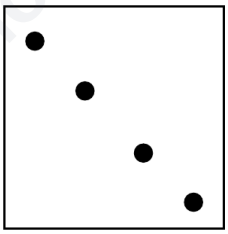
Q25. OT11 is related to PU15 in a certain way. In the same way, WB21 is related to XC25. To which of the following is DI31 related, following the same logic?

(a) EF53
(b) DJ35
(c) EJ35
(d) EJ53

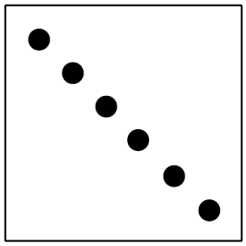
Q26. A square sheet of paper is folded along the dotted line successively along the directions shown and is then punched in the last. How would the paper look when unfolded?



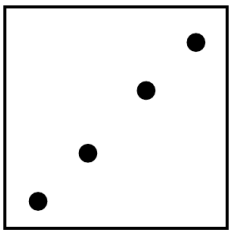
(a)



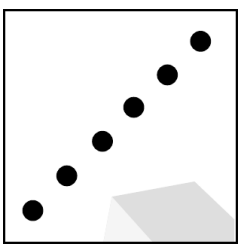
(b)



(c)

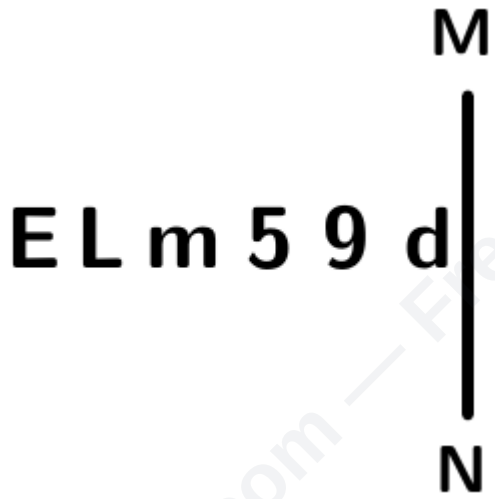


(d)



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



(a)



(b)



(c)



(d)

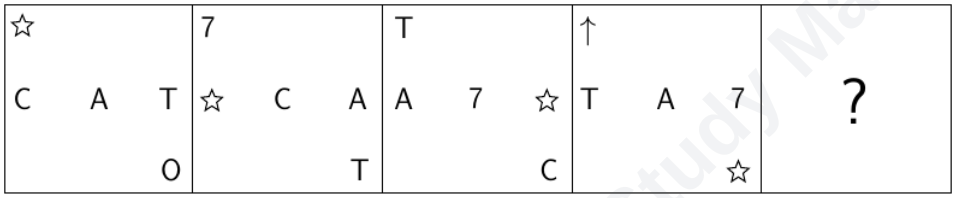


Q28. What should come in place of the question mark (?) in the given series?

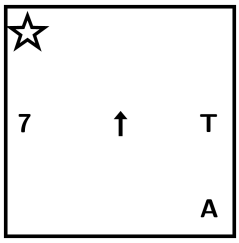
219 222 227 234 ? 254

(a) 243
(b) 244
(c) 241
(d) 242

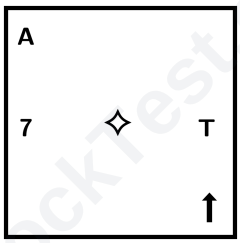
Q29. Select the figure from among the given options that can replace the question mark (?) in the following series and complete the pattern.



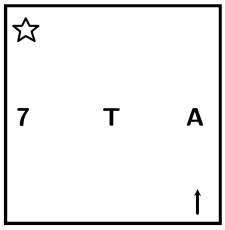
(a)



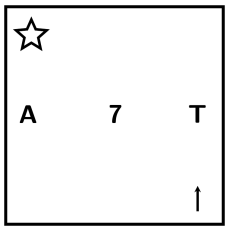
(b)



(c)



(d)



Q30. What will come in the place of '?' in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged?

14 ÷ 6 + 9 × 3 − 2 = ?

(a) 81
(b) 75
(c) 83
(d) 76

Q31. IOZU is related to HNYT in a certain way based on the English alphabetical order. In the same way, PDYC is related to OCXB. To which of the following is EJSW related, following the same logic?

(a) DIRV
(b) EIRV
(c) DIRW
(d) DJSV

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Q32. Read the given statements 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 statements.

Statements:

Some books are wood.

All wood is fire.

Conclusions:

(I) Some fire is wood.

(II) All books are fire.

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

Q33. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

GJD, IHH, KFL, MDP, ?

(a) PAT
(b) OBS
(c) PBT
(d) OBT

Q34. In a certain code language, 'this is book' is written as 'lo mo ro' and 'this is me' is written as 'mo lo po'. How is 'me' written in the given code language?

(a) mo
(b) ro
(c) po
(d) lo

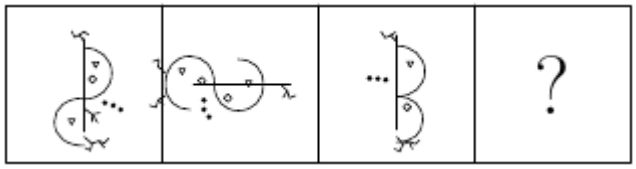
Q35. In a certain code language, 'FITCH' is coded as '47601' and 'DITCH' is coded as '70619'. What is the code for 'D' in the given code language?

(a) 7
(b) 0
(c) 9
(d) 1

Q36. In a certain code, ‘curtain door window’ is coded as ‘la ph ba’,‘lock window key’ is coded as ‘ep zm la’, ‘key curtain handle’ is coded as ‘fd ba zm’. What is the code for ‘curtain’ in that language?(Note: All the codes are two-letter coded only.)

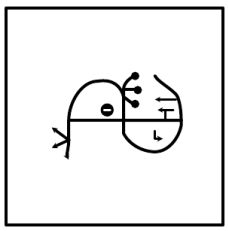
(a) zm
(b) la
(c) ep
(d) ba

Q37. Identify the figure given in the options which when put in place of ? will logically complete the series.

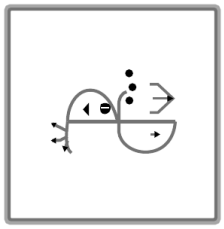


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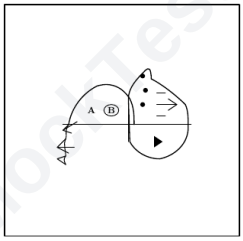
(a)



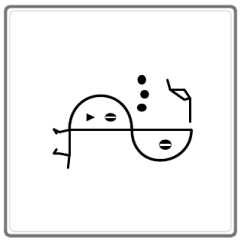
(b)



(c)



(d)



Q38. A, D, K, N, Y and Z are sitting around a circular table facing the centre (but not necessarily in the same order). Z is sitting third to the right of D. K is not the immediate neighbour of Z. A is sitting second to the left of Z. N is not the immediate neighbour of A.

Who is the immediate neighbour of both between A and K?

(a) D
(b) Y
(c) Z
(d) N

Q39. In a certain code language, 'complete the task' is written as 'je tc xo' and 'work is complete' is coded as 'xo ig lx'. How is 'complete' coded in the given language?

(a) xo
(b) je
(c) tc
(d) lx

Q40. What will come in place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?

66 × 6 − 15 ÷ 3 + 9 = ?

(a) 46
(b) 48

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(c) 47
(d) 49

SESSION 2

Q41. The transportation mechanism in cells by which food or other useful molecules from the outside are carried inside the cell is known as _____.
(a) Osmosis
(b) Fusion
(c) Endocytosis
(d) Exocytosis

Q42. 'Unbreakable' is an autobiography of _____ published in 2013.
(a) Abhinav Bindra
(b) MC Mary Kom
(c) Milkha Singh
(d) Geeta Phogat

Q43. In a laterite soil profile, which of the following elements is present in an excessive amount?
(a) Iron
(b) feldspar
(c) Nitrogen
(d) Lime

Q44. The Hathigumpha Inscription was inscribed in which of the following historical regions of India?
(a) Suvarnagiri
(b) Kalinga
(c) Taxila
(d) Vaishali

Q45. When was 'Nai Chetna-Pahal Badlav Ki' campaign launched?
(a) December 2022
(b) March 2023
(c) January 2023
(d) November 2022

Q46. Which of the following events took place in the year 1928?
(a) Kakori Incident
(b) Bardoli Satyagraha
(c) Dandi March
(d) Kheda Satyagraha

Q47. Sachin Tendulkar scored his 100^(th) international century against which country?
(a) Australia
(b) England
(c) Pakistan
(d) Bangladesh

Q48. In which of the following months is the Konark Dance festival organised in Odisha?
(a) January
(b) March
(c) December
(d) June

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Q49. The Fundamental Rights Sub-Committee of the Constituent Assembly was headed by _____.

(a) Alladi Krushnaswami Ayyar
(b) Jawaharlal Nehru
(c) JB Kripalani
(d) Harnam Singh

Q50. Devendra Fadnavis became the _____ of the state of Maharashtra on 30^(th) June 2022.

(a) Governor
(b) Chief Justice of High Court
(c) Chief Minister
(d) Deputy Chief Minister

Q51. National Urban Livelihood Mission (NULM) was launched in which of the following Five Year plans?

(a) Sixth Five Year Plan
(b) Eighth Five Year Plan
(c) Tenth Five Year Plan
(d) Twelfth Five Year Plan

Q52. Who among the following is known as the 'Mozart of Madras'?

(a) Ilaiyaraaja
(b) MM Kreem
(c) Shankar Mahadevan
(d) AR Rahman

Q53. Which of the following para athletes is associated with the javelin throw event?

(a) Sharad Kumar
(b) Pramod Bhagat
(c) Karamjyoti Dalal
(d) Devendra Jhajharia

Q54. 'Bayalata' is a famous folk dance of which of the following Indian states?

(a) Punjab
(b) Karnataka
(c) Himachal Pradesh
(d) Bihar

Q55. Which of the following States/Union Territories is NOT a part of Indus River Basin?

(a) Himachal Pradesh
(b) Ladakh
(c) Jammu and Kashmir
(d) Sikkim

Q56. What is the chemical reaction that occurs when sugar is heated and turns into a caramel syrup?

(a) Maillard reaction
(b) Precipitation
(c) Caramelisation
(d) Neutralisation

Q57. The number of Rajya Sabha members to be elected from each State of India has been fixed by the _____ Schedule of the Constitution.

(a) Eighth
(b) Fourth
(c) Sixth
(d) Third

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Q58. According to Census 2011 of India, which Union Territory has the second highest percentage of urban population?

(a) Delhi
(b) Puducherry
(c) Chandigarh
(d) Daman and Diu

Q59. As per the treaty of Purandar, how many forts were surrendered by Chhatrapati Shivaji Maharaj to Mughals?

(a) 23
(b) 11
(c) 18
(d) 35

Q60. At what temperature do Celsius and Fahrenheit scales have the same value?

(a) 40°C
(b) 32°C
(c) -40°C
(d) -32°C

Q61. Where does the cash grants in aid from foreign countries are classified?

(a) Tax revenue
(b) Non-tax revenue
(c) Revenue expenditure
(d) Capital receipt

Q62. Match the awardees who received the Sangeet Natak Akademi Amrit Award, 2022 in column A with their corresponding dance forms in column B.

Column A (Name of the Awardee)	Column B (Dance form)
a. Padma Sharma	i. Chhau Dance
b. Siba Prasad Das	ii. Bharatanatyam
c. Thankamani Kutty	iii. Kathak
d. Smita Rajeshbhai Shastri	iv. Kuchipudi

(a) a-(iii), b-(i), c-(ii), d-(iv)
(b) a-(ii), b-(iv), c-(iii), d-(i)
(c) a-(iv), b-(iii), c-(i), d-(ii)
(d) a-(i), b-(ii), c-(iv), d-(iii)

Q63. What is the full form of INSAT?

(a) Indian Navigational Satellite System
(b) International Navigation Satellite System
(c) Indian National Standard System
(d) Indian National Satellite System

Q64. Under the influence of the Greeks, which of the following art styles flourished in India?

(a) Kandhar
(b) Gandhar
(c) Mathura
(d) Amravati

Q65. In which year was the first session of the Indian National Congress held?

(a) 1885
(b) 1886
(c) 1882

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(d) 1887

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

Beat around the bush

(a) To speak rashly
(b) To avoid getting to the point of an issue
(c) To speak abusively
(d) To speak convincingly

Q67. Select the most appropriate option to fill in the blank.

The inclusion of Durga Puja in the UNESCO's list of Intangible Cultural Heritage was only possible due to the arduous _____ of all stakeholders.

(a) efforts
(b) passivity
(c) affects
(d) ignorance

Q68. Select the option that will improve the underlined part of the given sentence.

The bishop sadly declared that the poor gentleman who was dead was quieter of the community.

(a) the quieter
(b) quiet
(c) the quietest
(d) most quiet

Q69. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

In addition with / the existing crisis in economy, / the rise of hunger index / is another cause of worry.

(a) the rise of hunger index
(b) the existing crisis in economy
(c) is another cause of worry
(d) In addition with

Q70. Select the INCORRECTLY spelt word.

(a) Hymn
(b) Machinary
(c) Idol
(d) Motto

Q71. Select the option that will improve the underlined part of the given sentence.

The moment James saw Regena, he fell head on to his heels in love with her.

(a) heels of the head
(b) head and heels
(c) heads in the heels
(d) head over heels

Q72. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Most probably, / he come / to office / next Tuesday.

(a) he come
(b) next Tuesday
(c) to office
(d) most probably

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Q73. Select the most appropriate ANTONYM of the given word.

Pacify

(a) Restore
(b) Negate
(c) Enrage
(d) Amuse

Q74. Read the following sentence and select its future tense form from the following options.

The food company promoted newly launched products at affordable prices.

(a) The food company will be promoting newly launched products at affordable prices.
(b) The food company promotes newly launched products at affordable prices.
(c) The food company had promoted newly launched products at affordable prices.
(d) The food company is promoting newly launched products at affordable prices.

Q75. Select the most appropriate option that can substitute the underlined word in the given sentence.

Reduced price of cooking gas brought happy to the face of every citizen.

(a) happier
(b) happiest
(c) happily
(d) happiness

Q76. 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 substitution required'.

Rishi Sunak, the Prime Minister of the United Kingdom and Leader of the Conservative Party, was born into Southampton to parents of Indian descent who immigrated to Britain from East Africa in the 1960s.

(a) was born on
(b) No substitution required
(c) was born in
(d) was born with

Q77. Select the most appropriate adverb to fill in the blank.

The explorers trekked _____ through the dense jungle.

(a) before
(b) rarely
(c) ever
(d) bravely

Q78. Select the most appropriate ANTONYM of the bracketed word to fill in the blank.

The rainbow arched gracefully across the sky, painting it in _____ (lifeless) hues.

(a) vibrant
(b) spiritual
(c) ashless
(d) muted

Q79. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

My sister Mona / never drinks coffee; / she prefer tea / in the morning.

(a) My sister Mona
(b) never drinks coffee;
(c) in the morning
(d) she prefer tea

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Q80. Select the most appropriate ANTONYM that can substitute the underlined segment in the given sentence.

The team was gradually realising that the social gatherings were draining.

(a) unfruitful
(b) flippant
(c) frivolous
(d) absorbing

Q81. Select the most appropriate ANTONYM of the highlighted word in the given sentence.

The author\'s writing style is characterised by a subtle and nuanced use of language.

(a) Elegant
(b) Sturdy
(c) Delicate
(d) Elaborate

Q82. Select the most appropriate ANTONYM of the given word.

Delay

(a) Wait
(b) Lag
(c) Intervene
(d) Hasten

Q83. Select the INCORRECTLY spelt word in the given sentence.

Many biologists have stated the fact that most of the herbs are perinnial and have healing qualities with added flavour.

(a) Healing
(b) Biologists
(c) Qualities
(d) Perinnial

Q84. Select the INCORRECTLY spelt word in the given sentence.

The neighbour came in disgoise and attacked her children.

(a) children
(b) attacked
(c) neighbour
(d) disgoise

Q85. Select the most appropriate option to fill in the blank.

In order to maintain good governance, every government servant must be held _____ for his/her decisions.

(a) accountable
(b) irresponsible
(c) flexible
(d) unaccountable

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.

We’re a society fixated on numbers. So, it’s no (1)_____ we use measurements and equations to score our weight. The most (2)___ is BMI, a measure of our body weight to height ratio. BMI (3)___ bodies as underweight, normal or healthy weight, overweight or obese and can be a useful tool for weight and health (4)___. But it shouldn’t be used as the single (5)_____ of what it means to be a healthy weight when we set our weight loss goals.

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

(a) resolution
(b) surprise
(c) vibrance
(d) persistence

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

(a) popular
(b) uncharted
(c) indistinct
(d) imprecise

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

(a) dissuades
(b) speculates
(c) classifies
(d) meanders

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

(a) planting
(b) screening
(c) landing
(d) hastening

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

(a) wobble
(b) serendipity
(c) measure
(d) evanesce

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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