SSC MTS 2023 Official Paper (Held On: 12 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. A seller marked the price of a sofa 25% more than its cost price. If he allows 12% discount on the marked price to the customer, then what is his gain percentage? If the cost price of the sofa is Rs. 15,000, then what is his gain money?

(a) 9%; Rs. 1,480
(b) 8%; Rs. 1,350
(c) 10%; Rs. 1,500
(d) 9.5%; Rs. 1,600

Q2. Lucknow Shatabdi Express leaves Varanasi at 3:30 p.m. and reaches Lucknow at 8:30 p.m. on the same day. The average speed of the train is 140 km/h. What is the distance (in km) from Varanasi to Lucknow?

(a) 725
(b) 675
(c) 750
(d) 700

Q3. The time taken by a boat to cover a distance of x km upstream is double the time taken by the boat to cover the same distance downstream. The sum of the speeds of the boat and the stream is 90 km/h. The speed of the stream is _____ km/h.

(a) 22.5
(b) 37.5
(c) 27.5
(d) 33.5

Q4. Find the volume of a cuboid whose dimensions are 34 m, 7 m and 4 m.

(a) 952 m3
(b) 476 m3
(c) 238 m3
(d) 1904 m3

Q5. What is the HCF of the polynomials $(x^3 - 8)$, $(x^3 - 6x^2 + 12x - 8)$ and $(x^3 - 4x^2 + 4x)$?

(a) (x -1)
(b) (x - 2)
(c) (x - 8)
(d) (x - 4)

Q6. Aditya sold two bags for Rs. 630 each. On one bag he gains 33% and on the other he losses 33%. Find his gain or loss per cent on the whole transaction.

(a) 12.37% gain
(b) 10.89% gain
(c) 10.89% loss
(d) 12.37% loss

Q7. In a subject, there are 40 marks for practical and 110 marks for theory. In another subject, the practical marks are 60 and the theory marks are 40. If R gets an average mark of 40 in practical and an average mark of 60 in theory, then his average marks per subject are _____.

(a) 80
(b) 60
(c) 100
(d) 40

Q8. If the average of 7, x, 13, 16 and 9 is 10, then the value of x is:

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

Q9. The simple interest on a certain sum at 10% per annum for two years and three years differ by Rs. 500. Find the sum.

(a) Rs. 5,500
(b) Rs. 5,000
(c) Rs. 6,000
(d) Rs. 4,500

Q10. Find a single discount equivalent to a discount series of 10%, 15% and 20%.

(a) 39.20%.
(b) 42.20%
(c) 38.80%
(d) 40.80%

Q11. A steel sphere of radius 1 cm is melted and cast into a wire of diameter 4 mm, then the length of the wire is:

(a) 301/3 cm
(b) 351/7 cm
(c) 371/7 cm
(d) 331/3 cm

Q12. A and B can complete a work in 10 days. B and C can complete the same work in 15 days. If A is twice as efficient a workman as C, then find in how much time (in days) B alone can do the work.

(a) 10
(b) 25
(c) 20
(d) 30

Q13. Study the given table and answer the question that follows.

The tables shows the number of pages printed by four printers in three days.

Days	**Printers**			
M	N	O	P	
Friday	880	885	877	898
Saturday	972	989	990	786
Sunday	980	790	782	690

If the total number of pages printed by all the given printers together on Monday was 15% more than the total number of pages printed by all the given printers together on Friday, then what was the total number of pages printed by all the given printers together on Monday?

(a) 4071
(b) 4026
(c) 4580

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(d) 4128

Q14. A sum of Rs. 15,000 was lent for 3 years at the rate of 4%, 5%, 6% per annum, respectively, at compound interest for the first year. second year and third year compounded annually. Find the compound interest for 3 years.

(a) Rs. 2,380.60
(b) Rs. 2,382.60
(c) Rs. 2,362.80
(d) Rs. 2,380.80

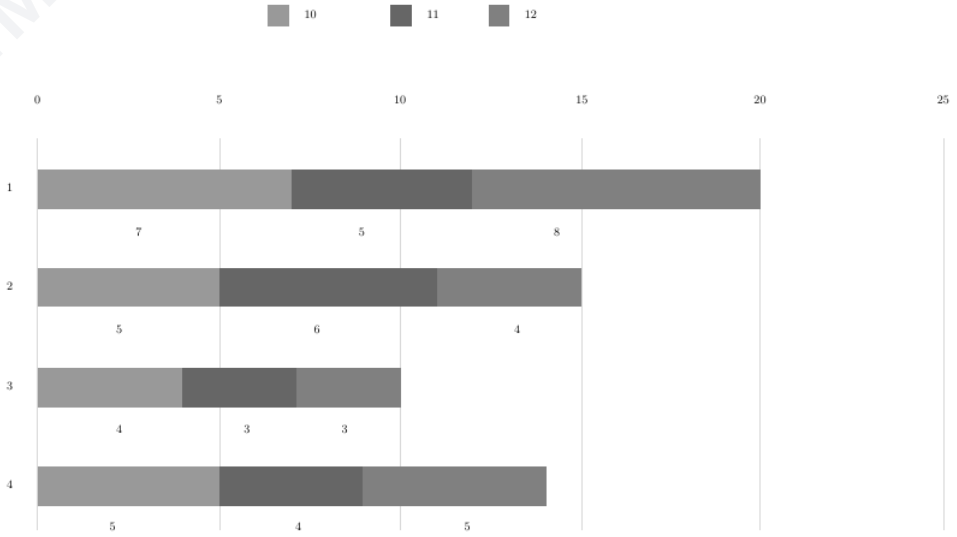
Q15. In a class of 50 students, there are 30 girls who scored an average of 88 marks. If the class average is 78, what are the average marks of boys?

(a) 72
(b) 63
(c) 80
(d) 83

Q16. The mean proportion between 17 and some unknown number is 51. What is the unknown number?

(a) 17
(b) 153
(c) 51
(d) 151

Q17. Consider the percentage of failed students in class 10, class 11 and class 12 in four different schools: 1, 2, 3 and 4 given in the bar graph.



The difference in the average percentage of failed students per class in school 1 and school 3 is _____.

(a) 11/3
(b) 8/3
(c) 13/3
(d) 10/3

Q18. The weight of a circular disc varies directly as the product of the square of the radius and its thickness. Two identical/similar discs have their thickness in the ratio of 16 : 9. What is the ratio of their radii if the weight of the first is four times that of the second?

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

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Q19. Simplify the following expression.

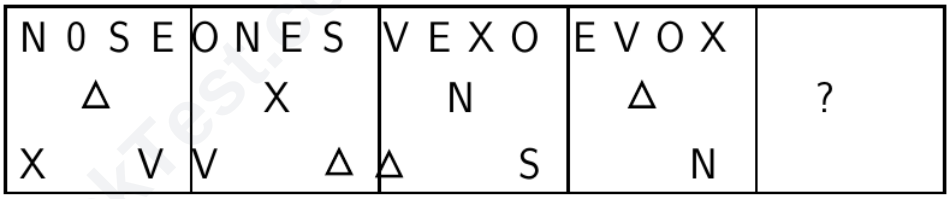
12 × 6 ÷[{18 ÷(6-3)}-3]+6

(a) 96
(b) 84
(c) 20
(d) 30

Q20. A certain number of men complete a piece of work in 60 days. If there were 8 more men called, then the work can be finished in 10 days less than usual. The number of men originally was:

(a) 40
(b) 30
(c) 60
(d) 50

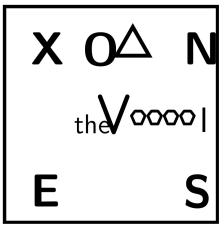
Q21. Which figure should replace the question mark (?) in the following series were to be continued?



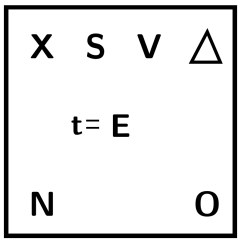
(a)



(b)



(c)



(d)



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Q22. What should come in place of ? in the given series?

92 91 87 78 62 ?

(a) 37
(b) 38
(c) 35
(d) 36

Q23. 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 clay is metal. Some metal are bricks. All bricks are tablets.

Conclusion I: Some clay are bricks.

Conclusion II: All metal are tablets.

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

Q24. In a certain code language, just do it is coded as 'ct ns kw' and 'do your best' is coded as 'mb kw du. How is 'do' coded in the given language?

(a) ns
(b) ct
(c) kw
(d) mb

Q25. 78 is related to 69 following a certain logic. Following the same logic, 57 is related to 48. To which of the following is 94 related to, following the same logic?

(a) 83
(b) 85
(c) 82
(d) 84

Q26. What should come in place of ? in the given series?

124 114 104 94 84 ?

(a) 72
(b) 73
(c) 71
(d) 74

Q27. What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

105 × 7 + 43 - 37 ÷ 3 = ?

(a) 53
(b) 83
(c) 73
(d) 63

Q28. 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: All cars are cats. All fans are cats.

Conclusions:

(I) All cars are fans.

(II) Some fans are cars.

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

Q29. 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 /deleting /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)

12 : 44

8 : 28

(a) 9 : 32
(b) 7 : 28
(c) 15 : 35
(d) 10 : 38

Q30. What should come in place of ? in the given series based on the English alphabetical order?

EVO, HSR, KPU, NMX, ?

(a) RIC
(b) PHB
(c) QJA
(d) PIB

Q31. What should come in place of ? in the given series based on the English alphabetical order?

MCT, JEU, GGV, DIW, ?

(a) CJY
(b) BKZ
(c) BIY
(d) AKX

Q32. DTGB is related to FVID in a certain way based on the English alphabetical order. In the same way, VRCK is related to XTEM. To which of the following is JAHM related to, following the same logic?

(a) KBJP
(b) LDKO
(c) MCKP
(d) LCJO

Q33. What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' and are interchanged?

29 ÷ 6 + 5 - 98 × 2 = ?

(a) 217
(b) 219
(c) 218
(d) 220

Q34. A, B, C, D, E, F, G and H are sitting around a square table facing the center of the table. Some of them are sitting at the corners while some are sitting at the exact center of the sides. H sits third to the left of B. H does not sit in any of the corners. C sits third to the right of F. C sits in one of the corners. H is the immediate neighbour of D and E. A is not the neighbour of B. E sits immediate next to A.

How many people sit between A and H, when counted from the left of A?

(a) Three
(b) Six
(c) Four

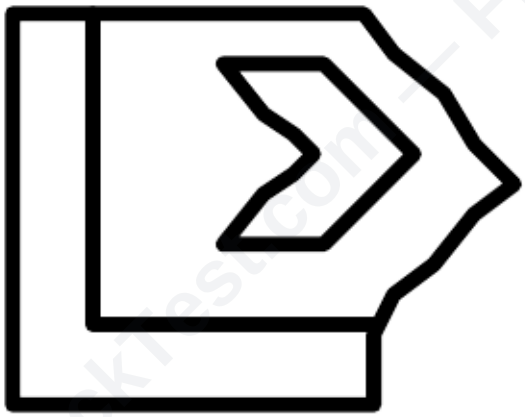
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(d) Five

Q35. In a certain code language, 'TOP' is coded as '22-17-18' and 'BIZ' is coded as '4-11-28'. What is the code for 'MAR' in the given code language?

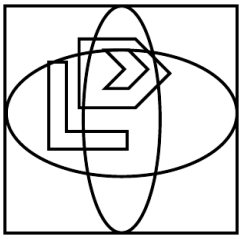
(a) 15-5-21
(b) 16-5-20
(c) 14-4-21
(d) 15-3-20

Q36. Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).

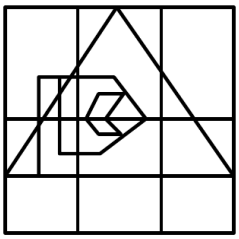


(K)

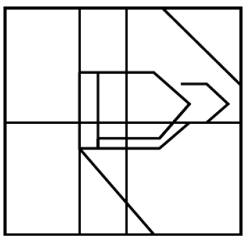
(a)



(b)

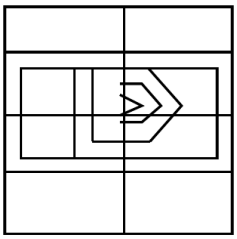


(c)



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(d)



Q37. What should come in place of ? in the given series?

15 26 48 81 125 ?

(a) 155
(b) 180
(c) 169
(d) 194

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

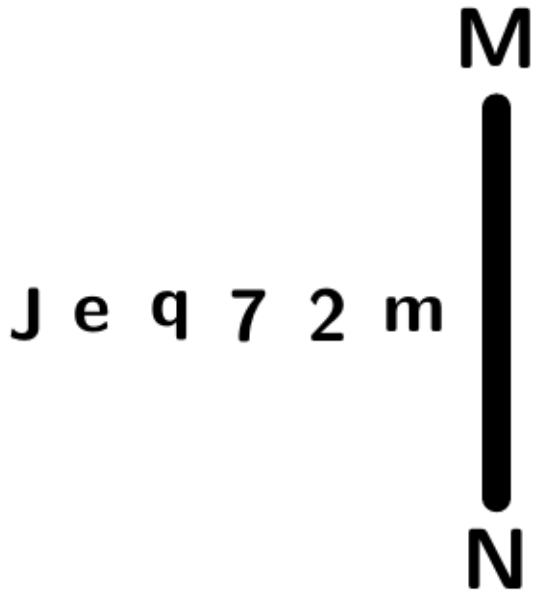
(a) two
(b) none
(c) one
(d) three

Q39. Select the combination of letters that when sequentially placed in the blanks of the given series, will complete the series.

BA_B_B_ _BB_B

(a) ABABB
(b) AABAB
(c) BABAA
(d) BAABB

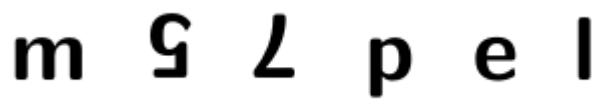
Q40. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



(b)



(c)



(d)



SESSION 2

Q41. Instituted in 1984, the National-level Lata Mangeshkar Award is given to promote excellence in the area of light music annually by the _____ government's culture department.

(a) Madhya Pradesh
(b) Rajasthan
(c) Karnataka
(d) Goa

Q42. The Sakraat festival is celebrated with the 'Budigali' or 'Kalasi' dance _____, in where women take part in this dance, carrying decorative pots on their heads.

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

Q43. The National Social Assistance Programme (NSAP) is a welfare programme being administered by which Ministry of Government of India?

(a) Ministry of Tribal Affairs
(b) Ministry of Home Affairs
(c) Ministry of Agriculture and Farmers Welfare
(d) Ministry of Rural Development

Q44. What is the main source of income for commercial banks?

(a) Donations from customers
(b) Profits from stock market investments
(c) Government grants
(d) Interest earned on loans and advances

Q45. The Taj Mahal was built by:

(a) Humayun
(b) Jahangir
(c) Akbar
(d) Shah Jahan

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Q46. Who among the following made Ganesh Chaturthi popular as a public celebration in Maharashtra?

(a) Lokmanya Bal Gangadhar Tilak
(b) Khudiram Bose
(c) Vinayak Damodar Savarkar
(d) Lala Lajpat Rai

Q47. Which country's Constitution was the inspiration behind the Directive Principles of the Indian Constitution?

(a) The Constitution of Australia
(b) The Constitution of the United States
(c) The Constitution of the United Kingdom
(d) The Constitution of Ireland

Q48. When one stone is thrown upwards, what type of energy conversion would occur?

(a) Kinetic energy would change to mechanical energy
(b) Potential energy would change to gravitational energy
(c) Mechanical energy would change to kinetic energy
(d) Kinetic energy would change to gravitational potential energy

Q49. Lack of functional small intestine can cause a malabsorption disorder leading to diarrhoea, malnutrition, weight loss etc. This particular condition is known as:

(a) Down syndrome
(b) short bowel syndrome
(c) hypoglycaemia
(d) hyperglycaemia

Q50. In December 2022, Government of India launched Grih Pravesh scheme. This scheme aims to provide benefits to the residents of ____ areas.

(a) only urban
(b) only rural
(c) only tribal
(d) both rural and urban

Q51. Indian Industrialists reacted against colonial policies that restricted business activities and formed an organisation in 1927. What was it called?

(a) Indian Industrial and Commercial Congress(IICC)
(b) Organization of Industries of India (OII)
(c) Federation of the Indian Chamber of Commerce and Industries (FICCI)
(d) Confederation of Indian Industries (CII)

Q52. Who founded the All-India Forward Bloc Party?

(a) Chandra Shekar Azad
(b) Bhagat Singh
(c) Rasbehari Bose
(d) Subhas Chandra Bose

Q53. The Constitution allows _____ maximum members in Lok Sabha as of June 2023.

(a) 546
(b) 550
(c) 545
(d) 543

Q54. Which of the following novels is based on the partition of India and was written by Khushwant Singh?

(a) The Great Indian Novel
(b) Untouchables
(c) Narcopolis

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(d) Train to Pakistan

Q55. Which institution mainly provides financial assistance and support to microfinance institutions in India?

(a) Department of Economic Affairs (DEA)
(b) Ministry of Corporate Affairs
(c) Indian Banks' Association (IBA)
(d) Small Industries Development Bank of India (SIDBI)

Q56. Mango showers are associated with which two states?

(a) Kerala and Karnataka
(b) Uttar Pradesh and Bihar
(c) Kerala and Andhra Pradesh
(d) Andhra Pradesh and Karnataka

Q57. The Padma Shri awardee (2016) Gulabo Sapera is known as the Queen of _____ dance.

(a) Chari
(b) Bhavai
(c) Kalbeliya
(d) Kacchi Ghodi

Q58. Who among the following is the author of the novel 'Untouchable'?

(a) Mulk Raj Anand
(b) Salman Rushdie
(c) Vikram Seth
(d) Amitav Ghosh

Q59. Lachhu Maharaj is a celebrated _____ dancer.

(a) Kuchipudi
(b) Bharatnatyam
(c) Odissi
(d) Kathak

Q60. What is the name of the mascot for the 37^(th) National Games?

(a) Jelly
(b) Pandi
(c) Olly
(d) Moga

Q61. Ustad Allah Rakha and Ustad Zakir Hussain are both famous _____ players of India.

(a) veena
(b) bansuri
(c) tabla
(d) sarangi

Q62. Manika Batra won bronze medal in Asian Cup tournament. She is related to which sport?

(a) Judo
(b) Chess
(c) Table Tennis
(d) Gymnastic

Q63. What is the name of the geographic feature that serves as a boundary between India and Sri Lanka?

(a) Strait of Gibraltar
(b) Dardanelles Strait
(c) Bosporus Strait
(d) Palk Strait

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Q64. FIFA U-17 Women's World Cup 2022 final was held in which city?

(a) Margo
(b) Navi Mumbai
(c) Bhubaneswar
(d) Ahmedabad

Q65. The Tata Iron and Steel Company Limited (TISCO) was started in the year _____ at Sakchi in Jharkhand state.

(a) 1989
(b) 1907
(c) 1951
(d) 1975

Q66. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

By the time I turn thirty / I would had visited every / continent in the world and have gained / a wealth of knowledge and experience.

(a) By the time I turn thirty
(b) a wealth of knowledge and experience
(c) I would had visited every
(d) continent in the world and have gained

Q67. The following sentence has been divided into four parts. Identify the part that contains an error.

(A) It is a / (B) state of chaos / (C) since the / (D) chairman resigned.

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

Q68. Select the most appropriate meaning of the given idiom.

The apple of one's eye

(a) Very cheerful
(b) Very dear
(c) Very nice
(d) Very pleasing

Q69. Select the most appropriate ANTONYM of the given word.

Harmony

(a) Adaptability
(b) Clarity
(c) Unity
(d) Conflict

Q70. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Pandemics have often been caused by a disease that spreads by physical touch or contact.

(a) are contagious
(b) are vigorous
(c) are robust
(d) are fastidious

Q71. Select the most appropriate meaning of the underlined idiom in the given sentence.

The two neighbours will probably stop fighting when pigs fly.

(a) When their families meet
(b) When there is magic
(c) Something that is impossible
(d) When it rains

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Q72. Select the most appropriate option to fill in the blank.

Her dedication to her work was _____ what anyone had expected.

(a) over
(b) beyond
(c) beside
(d) through

Q73. There is a spelling error in the given sentence. Select the option that contains the INCORRECTLY spelt word.

He was in despare because of the expiry of his licence.

(a) expiry
(b) because
(c) licence
(d) despare

Q74. Select the most appropriate ANTONYM of the given word.

Demolish

(a) Invite
(b) Criticise
(c) Construct
(d) Appreciate

Q75. Parts of the following sentence have been given as options. Select the option that contains an error.

Tushar is junior than all his colleagues.

(a) junior than all
(b) is
(c) Tushar
(d) his colleagues

Q76. Select the most appropriate synonym of the given word.

Enchanted

(a) Disgusted
(b) Cursed
(c) Appealing
(d) Repelling

Q77. Select the most appropriate meaning of the given idiom.

By the skin of your teeth

(a) By a very narrow margin
(b) To be less affected by criticisms and rebuffs
(c) Very protective
(d) Saved by others

Q78. The following sentence has been divided into four parts. Identify the part that contains an error.

(A) One of / (B) my brothers write / (C) novels for / (D) leisure.

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

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

Henry is known / as an excellent writer / and good communicator / in English.

(a) as an excellent writer
(b) in English
(c) Henry is known

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(d) and good communicator

Q80. Select the option that can be used as a one-word substitute for the given group of words.

The arrangement of events or dates in the order of their occurrence

(a) Chronology
(b) Theology
(c) Entomology
(d) Psychology

Q81. Choose the most appropriate meaning of the underlined idiom in the given sentence.

As soon as Rohan learned that he had topped the examination, he was on cloud nine.

(a) Very tense
(b) Very sad
(c) Very happy
(d) Very confused

Q82. Select the most appropriate option that can substitute the underlined segment in the following sentence.

His research on the migratory patterns of the birds is run-of-the-mill.

(a) absurd
(b) one in a million
(c) trash
(d) average

Q83. Select the option that rectifies the spelling of the underlined word in the given sentence.

The politician guaranted that he would create jobs if elected.

(a) gurranted
(b) gauaranteed
(c) guarranteed
(d) guaranteed

Q84. Select the most appropriate option to fill in the blank.

The old man distributed his property _____ his ten grandchildren equally.

(a) within
(b) among
(c) towards
(d) between

Q85. Select the INCORRECTLY spelt word.

(a) Paraphernalia
(b) Handkerchiefs
(c) Conjuror
(d) Indispensible

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.

Medical hand practices have been an integral part of healthcare for centuries, but with technological advancements, machines are (1)_____ taking over. Robotic surgeries, for instance, have become increasingly popular, allowing surgeons to perform complex (2)____ with minimal invasive techniques. Machine learning and artificial intelligence have transformed medical diagnosis by analysing large amounts of patient data and providing highly detailed medical images. However, there are still challenges to overcome in the use of these technologies in healthcare. For example, the cost of purchasing and maintaining medical machines can be high, and there are concerns around the ethical use of AI in medicine. Nonetheless, it is clear that medical hand practices are (3)____ to machines, and these developments have the potential to revolutionise the healthcare industry. Additionally, the use of telemedicine and remote monitoring devices allows patients to receive medical care from the (4)____ of their homes, particularly beneficial for those in rural or remote areas. Furthermore, medical machines provide

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healthcare professionals with real-time information, (5) _____ them to make informed decisions and adjust treatment plans accordingly.

Q86. Select the most appropriate option to fill in blank no. 1.

(a) sincerely
(b) partially
(c) gradually
(d) deliberately

Q87. Select the most appropriate option to fill in blank no. 2.

(a) therapies
(b) diagnosis
(c) analysis
(d) procedures

Q88. Select the most appropriate option to fill in blank no. 3.

(a) diminishing
(b) evolving
(c) depleting
(d) stagnating

Q89. Select the most appropriate option to fill in blank no. 4.

(a) locality
(b) comfort
(c) range
(d) inconvenience

Q90. Select the most appropriate option to fill in blank no. 5.

(a) reimagining
(b) adapting
(c) neglecting
(d) enabling

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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