SSC MTS (2022) Official Paper (Held On: 08 May 2023 Shift 1) (Previous Year Paper)

SSC Multi-Tasking Staff (MTS) • 2022 • 90 questions • 90 minutes • Answer key

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SESSION 1

Q1. A person can walk at a speed of 0.5 meters/second. How far will he walk in 8 minutes?

(a) 250 m
(b) 200 m
(c) 120 m
(d) 240 m

Q2. The third proportional to 4 and 6 is:

(a) 36
(b) 9
(c) 16
(d) 6

Q3. The average runs of a cricket player of 10 innings were 40. How many runs must she make in her next inning so as to increase her average of runs by 3?

(a) 53
(b) 43
(c) 63
(d) 73

Q4. Anil is 12.5 percent more efficient than Sachin. If Sachin alone can finish a work in 10 days, then in how many days will Anil alone finish the same work?

(a) (80/9) days
(b) (70/9) days
(c) (80/7) days
(d) (70/11) days

Q5. A wire is in the form of square with side 44 cm. It is bent to form a circle. What is the radius of the circle?

(a) 16 cm
(b) 28 cm
(c) 21 cm
(d) 32 cm

Q6. A mixture contains milk and water in the ratio 5 : 2. If 4 liters of water is added to the mixture, the ratio becomes 5 : 4. What is the quantity of milk in the given mixture?

(a) 10 liters
(b) 2 litres
(c) 5 litres
(d) 8 litres

Q7. What is the single equivalent price increase for two successive price increase of 5% and 8% on an item?

(a) 15.5%
(b) 14.2%
(c) 12.5%
(d) 13.4%

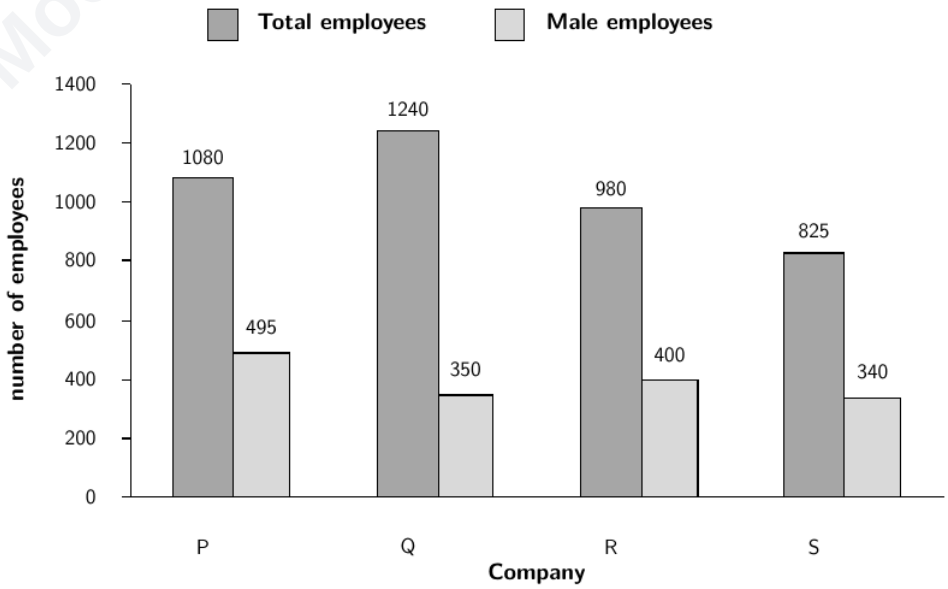
Q8. A person walks 10 km at a speed of 2.5 km per hour, then runs 10 km at a speed of 5 km per hour and then goes 30 km by bus at the speed of 30 km per hour. What is the average speed of the man?

(a) 9 kmph
(b) 7.14 kmph
(c) 7 kmph
(d) 8.25 kmph

Q9. A cuboid whose sides are 8 cm, 27 cm and 64 cm is melted to form a new cube. What is the respective ratio of the total surface area of the cuboid and cube?

(a) 329 : 237
(b) 291 : 203
(c) 349 : 248
(d) 307 : 216

Q10. The following bar graph shows the total number of employees in 4 different companies.
What is the sum of female employees of company Q and company S?



(a) 1240
(b) 485
(c) 1375
(d) 890

Q11. The difference between the compound interest (compounding annually) and simple interest on a sum at the rate of 30 percent per annum for 2 years is Rs. 3600. What is the sum?

(a) Rs. 50000
(b) Rs. 60000
(c) Rs. 75000
(d) Rs. 40000

Q12. The value of 8000 ÷ 10 × {(8 - 4) + (36 - 24)} is:

(a) 6400
(b) 50
(c) 12800

(d) 800

Q13. What is the value of 0.8 × 0.8 × 0.8 + 0.7 × 0.7 × 0.7 + 2.52?

(a) 3.375
(b) 5.165
(c) 4.275
(d) 2.125

Q14. Rohan alone can do a work in 10 days and Mohan alone can do the same work in 15 days. In how many days will they together complete the same work?

(a) 7 days
(b) 4 days
(c) 6 days
(d) 5 days

Q15. What is the effective annual rate of interest corresponding to a nominal rate of 10% per annum payable half-yearly?

(a) 12.75%
(b) 9.25%
(c) 10.25%
(d) 11.50%

Q16. A person bought some pens at the rate of 30 for a rupee and sold them at the rate of 20 for a rupee. What is the profit percentage?

(a) 50 percent
(b) 75 percent
(c) 66.66 percent
(d) 33.33 percent

Q17. X, Y and Z enter into a partnership. X invests some money at the beginning. Y Invests thrice the amount of X after 4 months and Z invest double the amount of Y after 9 months from the beginning. If the annual gain be Rs. 450000, then what is the share of Y?

(a) Rs. 150000
(b) Rs. 100000
(c) Rs. 300000
(d) Rs. 200000

Q18. A water purifier is on sale for 10% discount on the original price. A store- wide sale results in an additional discount of 15%. What is the total discount on the original price?

(a) 22.50%
(b) 23.50%
(c) 18.50%
(d) 19.50%

Q19. What is the value of (66-55+44-33+22)/(13 × 3+2 × 3-1) ?

(a) 1
(b) 4
(c) 44
(d) 11

Q20. The table given below shows the expenditure on six articles by two families A and B.

Articles	A	B
P	40	120
Q	60	70
R	80	90

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S	100	50
T	110	40
U	90	80

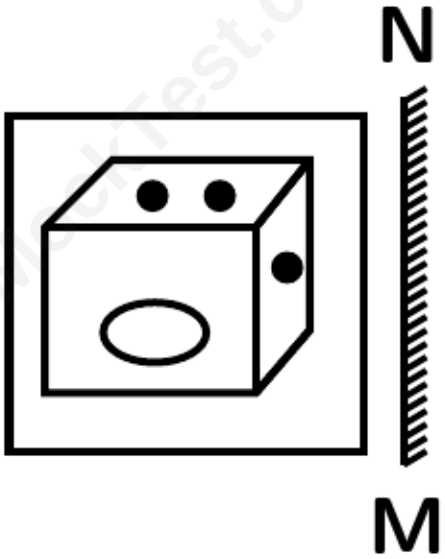
Which of the following statement is NOT correct?

I. The expenditure on article R by A is 28.56 percent more than the expenditure on Q by B.

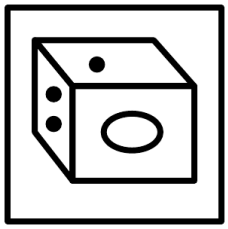
II. The difference between average expenditure on article P and Q by A and the average expenditure on R and S by B is 20.

(a) Both I and II
(b) Only I
(c) Only II
(d) Neither I nor II

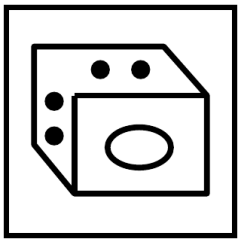
Q21. Select the correct mirror image of the given figure when the mirror MN is placed to the right side of the figure.



(a)

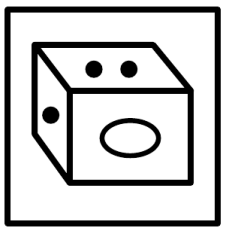


(b)

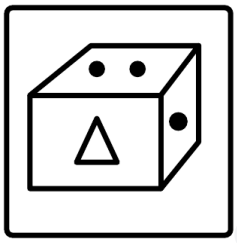


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(c)



(d)



Q22. Five brothers Drake, David, Dany, Derk, and Dim are sitting on a bench facing north. Derk is sitting to the immediate right of Dany. Dim is sitting exactly in between Drake and David. No one sits to the left of Drake. Who sits to the immediate left of Dany?

(a) Dim
(b) Drake
(c) David
(d) Derk

Q23. Select the option that is related to the third word in the same way as the second word is related to the first word.

Butterfly : Caterpillar :: Sheep : ?

(a) Pigeon
(b) Cat
(c) Kitty
(d) Lamb

Q24. In a certain code language, 'WORLD' is coded as '5', 'UPDATE' is coded as '6'. What is the code for 'GLOBALLY' in that code language?

(a) 19
(b) 9
(c) 7
(d) 8

Q25. Which of the following letter will replace the question mark (?) in the given series?

D, H, L, P, T, ?

(a) X
(b) R
(c) M
(d) P

Q26. Six sisters Anu, Ankita, Asha, Amy, Anveshi and Aisha are sitting around a circular table facing each other. Anu sits to the immediate left of Ankita. Amy sits exactly between Asha and Aisha. Aisha does not sit adjacent to Anveshi who sits second to the right of Anu. Who sits to the immediate right of Ankita?

(a) Asha
(b) Anveshi
(c) Aisha
(d) Amy

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Q27. Select the option that is related to the third number in the same way as the second number is related to the first number.

13 : 182 :: 17 : ?

(a) 280
(b) 306
(c) 360
(d) 440

Q28. If A denotes 'addition', B denotes 'multiplication', C denotes 'subtraction', and D denotes 'division', then what will be the value of the following equation?

6 A (9 D 3) C 4 = ?

(a) 5
(b) 12
(c) 8
(d) 7

Q29. Select the option that is related to the third letter cluster in the same way as the second letter cluster is related to the first letter cluster.

DMK : ENJ :: QOC : ?

(a) PRM
(b) BRP
(c) RBP
(d) RPB

Q30. Which two numbers should be interchanged to make the given equation correct?

4 × 8 - 12 + 5 = 16

(a) 8 and 5
(b) 12 and 16
(c) 16 and 8
(d) 4 and 5

Q31. Which of the following numbers will replace the question mark (?) in the given series?

75, 76, 78, 79, 81, 82, 84, 85, 87, ?

(a) 96
(b) 88
(c) 80
(d) 90

Q32. Seven friends M, N, O, P, Q, R, and S having different heights are standing in ascending order of their heights. The tallest person stands on the right and the shortest on the left. Only three friends are taller than O. R is shorter than only Q. N is taller than both P and M but shorter than S. Who is the third tallest?

(a) O
(b) P
(c) N
(d) S

Q33. Three statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All birds are crows.

Some crows are parrots.

No crow is a pigeon.

Conclusions:

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I. No parrot is a pigeon.

II. Some birds are parrots.

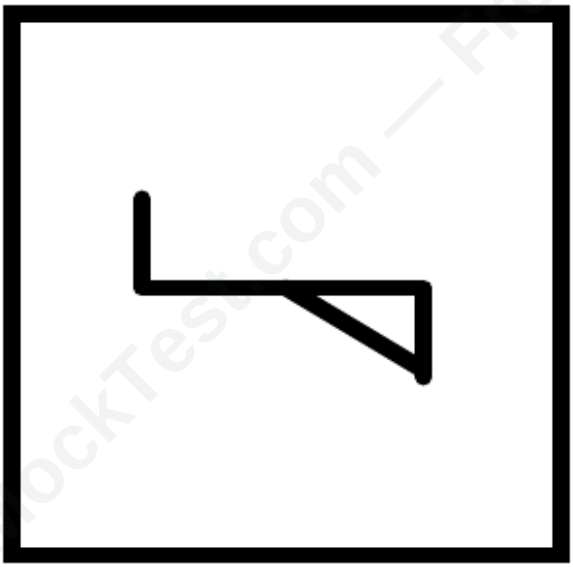
(a) Only conclusion I follows

(b) Only conclusion II follows

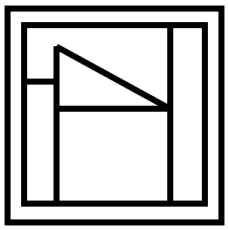
(c) Neither conclusion I nor II follows

(d) Both conclusions I and II follow

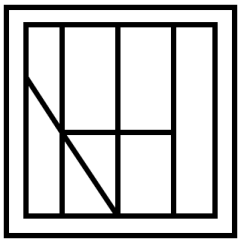
Q34. Select the option figure in which the given figure is embedded. (rotation is NOT allowed)



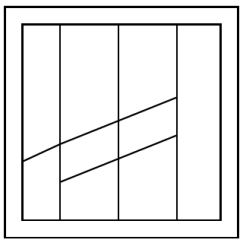
(a)



(b)

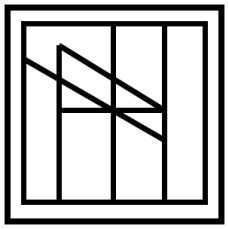


(c)

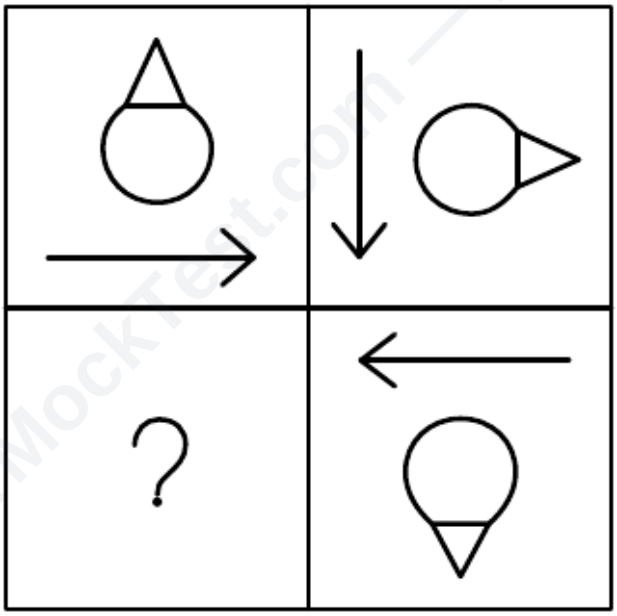


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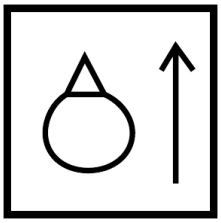
(d)



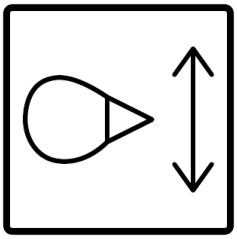
Q35. Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern. (rotation is not allowed)



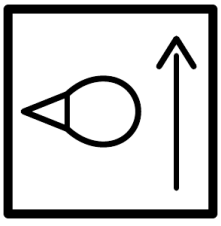
(a)



(b)

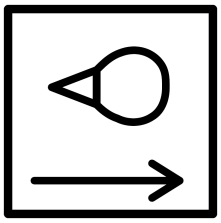


(c)



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(d)



Q36. In a certain code language, 'BONE' is written as 'F15R5'. How will 'NOSE' be written in that language?

(a) R51W5
(b) R61W5
(c) R15W5
(d) R5W51

Q37. Which of the following numbers will replace the question mark (?) in the given series?

13, 9, 5, 1, -3, -7, -11, ?

(a) -14
(b) -16
(c) -15
(d) -13

Q38. In a certain code language, 'WODMF' is written as 'ZRDKD'. How will 'EIDMC' be written in that language?

(a) HDLAK
(b) HDLKA
(c) HLDKA
(d) HALDA

Q39. Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some milk are curd.

Some curd are butter.

Conclusions:

I. Some milk are butter.

II. Some butter are curd.

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

Q40. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row- 64, 69, 74

Second row- 26, 31, 36

Third row- 49, 54, ?

(a) 65
(b) 37
(c) 53
(d) 59

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SESSION 2

Q41. Raut Nacha is a famous folk dance form of _____ state of India.

(a) Sikkim
(b) Karnataka
(c) Chhattisgarh
(d) Punjab

Q42. As per Schedule 8 of the Indian Constitution, how many official languages are there in India?

(a) 42
(b) 12
(c) 32
(d) 22

Q43. The Board of Control for Cricket in India (BCCI) was established in _____.

(a) 1928
(b) 1926
(c) 1924
(d) 1922

Q44. Which device is used to either break electric circuit or to complete it?

(a) Switch
(b) Insulators
(c) Bulb
(d) Wires

Q45. Which article of the Indian constitution talks about Oath or affirmation by the President?

(a) Article 45
(b) Article 72
(c) Article 56
(d) Article 60

Q46. Rani - Ki - Vav (the Queen's stepwell) is situated on the banks of which river?

(a) Yamuna
(b) Saraswati
(c) Krishna
(d) Ganga

Q47. What is the official reason given by Britishers after partition of Bengal in 1905?

(a) To check on Extremist activities
(b) Easy Movement of army
(c) Economic Progress
(d) Administrative Convenience

Q48. Generally, in India population census is conducted after how many years?

(a) 10
(b) 20
(c) 15
(d) 5

Q49. Ustaad Allauddin Khan, a famous Indian musician is associated with _____ musical instrument.

(a) Surbahar
(b) Sarod
(c) Santoor
(d) Sitar

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Q50. The main minerals constituents of the continental mass are _____ and _____.

(a) oxygen, carbon
(b) silica, magnesium
(c) silica, alumina
(d) alumina, magnesium

Q51. Roger Federer is a famous player of _____ sport.

(a) Lawn Tennis
(b) Football
(c) Rugby
(d) Lawn Bowls

Q52. According to census 2011, which is the second largest religious minority of India?

(a) Christians
(b) Buddhist
(c) Sikhs
(d) Muslim

Q53. 'I2U2' initiative is also referred as _____.

(a) East Asian Quad
(b) West European Quad
(c) East European Quad
(d) West Asian Quad

Q54. During the reign of which of the following Pallavas, Hiuen Tsang visited the Pallava capital Kanchi?

(a) Mahendravarman I
(b) Mahendravarman II
(c) Narasimhavarman II
(d) Narasimhavarman I

Q55. Cultivation of wheat thrives best in which type of soil?

(a) Red soil
(b) Black soil
(c) Well drained loamy soil
(d) Yellow soil

Q56. Which component of the cell organelles principally performs the function of packaging materials, to be delivered either to the intra-cellular targets or secreted outside the cell?

(a) Mitochondria
(b) Chloroplast
(c) Golgi Apparatus
(d) Chromosomes

Q57. Which of the following will NOT participate in the election of president?

(a) Elected members of state legislative assemblies
(b) Elected Rajya Sabha Members
(c) Elected members of state legislative council
(d) Elected Lok Sabha Members

Q58. The result of English Education Act of 1835 was to make __ as a medium of instruction for ___ education.

(a) vernacular, primary
(b) English, primary
(c) English, higher
(d) vernacular, higher

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Q59. What is the jelly like substance between the nucleus and the cell membrane called?

(a) cytoplasm
(b) cell wall
(c) plasma membrane
(d) plasma

Q60. Which organization is associated with the estimation of the poverty line in India?

(a) Reserve Bank of India
(b) NITI Aayog
(c) Indian Council of Agricultural Research
(d) National Sample Survey Organisation

Q61. When was the Tattvabodhini Sabha founded by Debendra Nath Tagore?

(a) 1839
(b) 1845
(c) 1832
(d) 1854

Q62. Andaman Islands and Nicobar islands are separated by a water body which is called the _____.

(a) Palk Strait
(b) Conolly Canal
(c) Ten Degree Channel
(d) Gulf of Mannar

Q63. In November 2022, Pradhan Mantri National Apprenticeship Mela held in _____.

(a) 197 districts
(b) 120 districts
(c) 152 districts
(d) 182 districts

Q64. In the early 18^(th) century, Rajput Ruler Sawai Raja Jai Singh founded his new capital at _____.

(a) Jodhpur
(b) Udaipur
(c) Ajmer
(d) Jaipur

Q65. Navreh is the lunar new year that is celebrated in which of the following states/union territories?

(a) Assam
(b) Manipur
(c) Sikkim
(d) Jammu and Kashmir

Q66. Choose the word that is opposite in meaning to the given word.

Absence

(a) Vanity
(b) Privation
(c) Dearth
(d) Surfeit

Q67. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

The political economy of reforms teaches us one major lesson loud and clearer.

(a) teaches us one major
(b) lesson loud and clearer.
(c) The political economy of reforms
(d) No error

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Q68. Select the word from the options which is similar in meaning to the bracketed word given in the sentence below.

The sky was alight from (top) to horizon.

(a) base
(b) zenith
(c) start
(d) summit

Q69. Choose the word that can substitute the given group of words.

A person who leaves his native country to settle in another

(a) Emigrant
(b) Itinerant
(c) Domicile
(d) Nomad

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

Withdraw

(a) Engage
(b) Persevere
(c) Retreat
(d) Combine

Q71. Select the word from the options which is exactly opposite in meaning to the bracketed word given in the sentence below.

She must have an (affinity) for women with dark hair.

(a) Tendency
(b) Dislike
(c) Dodge
(d) Stand

Q72. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

Your ears are itching / because you are having an / allergic reaction.

(a) allergic reaction.
(b) No error
(c) because you are having an
(d) Your ears are itching

Q73. Fill in the blank with the most appropriate option.

Every story in this collection is unique, inspirational, and _____.

(a) sustainable
(b) apprehensive
(c) relatable
(d) culpable

Q74. The statement below has been given with bracketed text. Select the option with correct idiom for the bracketed text.

His mother and I (share the same opinion) about his decision to drop out of college.

(a) leave no stone unturned
(b) paint the town red
(c) see eye to eye
(d) feel blue

Q75. In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.

Born with silver spoon in one's mouth

(a) To accomplish two tasks in one attempt

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(b) Useful for one's purpose
(c) A work which needs tremendous energy
(d) Born in a very rich family

Q76. Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully. Select the option 'no correction required' if the sentence is correct as given.

There were creatures (stood between) the carriage shafts.

(a) stood among
(b) No correction required
(c) standing between
(d) stands among

Q77. Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word.

(a) SIEZE
(b) RECOMEND
(c) FLOWWER
(d) RHYTHM

Q78. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

'Don't you get / involve!' Sandhya / whispered urgently to him.

(a) NO error
(b) Don't you get
(c) whispered urgently to him.
(d) involve!' Sandhya

Q79. Select the most appropriate word for the given group of words.

Abundant garbage kept at one place.

(a) Heap of garbage
(b) Hill of garbage
(c) Lot of garbage
(d) Mound of garbage

Q80. Select the most appropriate option to fill in the blank.

And his _____ manner should not be mistaken for a lack of energy.

(a) deem
(b) diffident
(c) daunt
(d) debase

Q81. Select the wrongly spelt word.

(a) Adulation
(b) Anonyomus
(c) Perfidious
(d) Circuitous

Q82. Improve the underlined part of the sentence. Choose 'No improvement' as an answer if the sentence is grammatically correct.

Watch your step-the third stair have a broken tread.

(a) No improvement
(b) has a break
(c) has a broke
(d) has a broken

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Q83. Fill in the blank with the most appropriate option.

Towel off and _____ your moisturizer immediately.

(a) touch
(b) surrender
(c) refer
(d) apply

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

Very special care should be taken to proportion the sand so as to make a perfectly _____ mixture.

(a) devious
(b) impervious
(c) obvious
(d) envious

Q85. Select the most appropriate option to substitute the bracketed segment in the given sentence. If there is no need to substitute it, select 'no substitution required'.

When it comes to face masks, the (market are flooded with choices).

(a) market is flooded with choices
(b) markets is flooded with choices
(c) No substitution required
(d) market are flooded off choices

Directions

In the following passage some of the words have been deleted. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

The study, published today in a magazine, finds that kids (1)____ played only individual sports, like tennis or gymnastics, tended to (2)__ more mental health difficulties. As a researcher, Hoffmann has long been interested in how sports (3)__ the psychological health of young people, partly because studies have (4)___ both positive and negative associations between mental health and sports (5)____ in children and adolescents.

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

(a) that
(b) who
(c) which
(d) whose

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

(a) absorb
(b) breathe
(c) claim
(d) face

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

(a) impact
(b) torment
(c) request
(d) thrash

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

(a) founded
(b) founds
(c) find
(d) found

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

(a) establishment
(b) remuneration
(c) participation
(d) celebration

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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