SSC MTS 2024 Official Paper (Held On: 28 Oct, 2024 Shift 3) (Previous Year Paper)

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

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SESSION 1

Q1. The given table shows the number of students studying Computer Science Engineering and Data Structures from six colleges. Study the table to answer the question that follows.

Collage	CSE	DS
A1	245	320
A2	325	435
A3	235	410
A4	251	290
A5	243	207
A6	280	315

What percentage of the students in college A5 study Data Structures out of the students studying CSE and DS?

(a) 42%
(b) 52%
(c) 46%
(d) 54%

Q2. In an election between two candidates, one person got 35% of the votes and lost by 6 votes. Assuming that there were no invalid votes, what was the total number of votes?

(a) 50
(b) 30
(c) 18
(d) 20

Q3. A chair was sold for Rs. 8,601 after giving two successive discounts of 8.5% and 6%. Find the marked price.

(a) Rs. 9,848
(b) Rs. 10,000
(c) Rs. 9,000
(d) Rs. 9,612

Q4. Find the simple interest (in Rs.) on Rs. 3500 as a sum borrowed at 4% per year rate of interest for 3 years.

(a) 360
(b) 460
(c) 380
(d) 420

Q5. Sunita borrows Rs. 5,500 for 3 years at 6.5% per annum simple interest. She immediately lends it to Vedanshi at 9.3% per annum simple interest for 3 years. Find her gain (in Rs.) in the transaction per year.

(a) 154
(b) 149
(c) 157
(d) 161

Q6. In a ration shop, there is a certain amount of cereals to distribute to 42 families for 15 days. If 48 kg of cereals can be distributed to 30 families for 7 days, then the quantity of cereals already in the shop was:

(a) 96 kg
(b) 112 kg
(c) 144 kg
(d) 84 kg

Q7. In a circular race of 1100 m, P and Q start from the same point, at the same time and at speeds of 36 km/h and 63 km/h, respectively. When will they meet again for the first time on the track if they are running in the opposite direction?

(a) 40 s
(b) 10 s
(c) 20 s
(d) 27 s

Q8. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 72 kg and 35 kg is:

(a) 51.4
(b) 50.4
(c) 52.4
(d) 49.4

Q9. How much water should be added to a 30 l mixture of milk and water, which currently has a ratio of 7 : 3, so that the resultant mixture contains 40% water?

(a) 6 l
(b) 3 l
(c) 425 l
(d) 5 l

Q10. Find the simple interest (in Rs.) on Rs. 3500 as a sum borrowed at 7% per year rate of interest for 5 years.

(a) 1165
(b) 1265
(c) 1225
(d) 1185

Q11. Reeta buys 90 kg potatoes and sells them at a profit equal to the cost price of 40 kg potatoes. Find her profit percentage.

(a) 44frac49%
(b) 44frac59%
(c) 34frac49%
(d) 34frac59%

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Q12. By selling an article for Rs. 19.5, a dealer makes a profit of 30%. By how much should he increase his selling price (in Rs.) so as to make a profit of 35%?

(a) 0.75
(b) 1.75
(c) 2.75
(d) 3.75

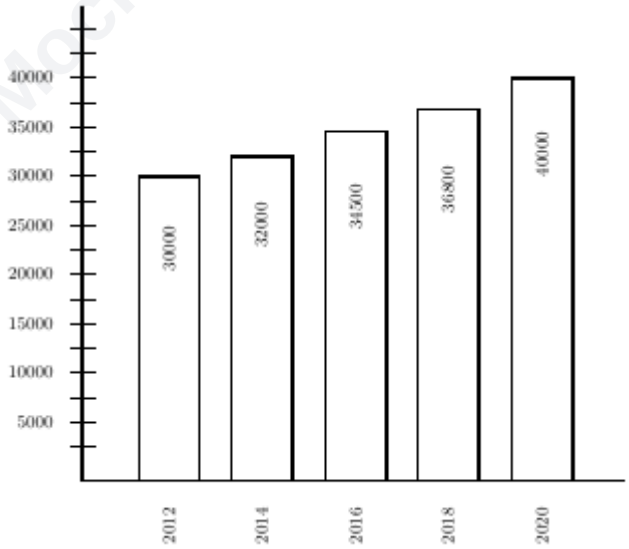
Q13. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 68 kg and 39 kg is:

(a) 51.4
(b) 52.4
(c) 49.4
(d) 50.4

Q14. The LCM of 3, 4 and 5 is:

(a) 20
(b) 60
(c) 30
(d) 48

Q15. The bar graph shows the number of books published by a company in different years. In which year(s) the number of books published is more than the average number of books published in the mentioned years?



(a) Only 2020
(b) 2014, 2016, 2018 and 2020
(c) 2016, 2018 and 2020
(d) 2018 and 2020

Q16. The mean of five numbers is 55. If one of the numbers is excluded, the mean gets reduced by 5. Which of the following is the excluded number?

(a) 55
(b) 65
(c) 75
(d) 50

Q17. If the total surface area of a hemisphere is 192π cm^2, then the radius of the base of the hemisphere is:

(a) 64 cm
(b) 8 cm
(c) 16 cm
(d) 4 cm

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Q18. A famous basketball league team is planning to paint the entire basketball shaped dummy whose radius is 7 m. A painter is hired who tells that 5.4 liters of paint will be used to paint the area of 36 m². How much paint (in l) is required? (round of to one decimal place) Take π = frac227

(a) 92.4
(b) 616
(c) 4106.6
(d) 95.2

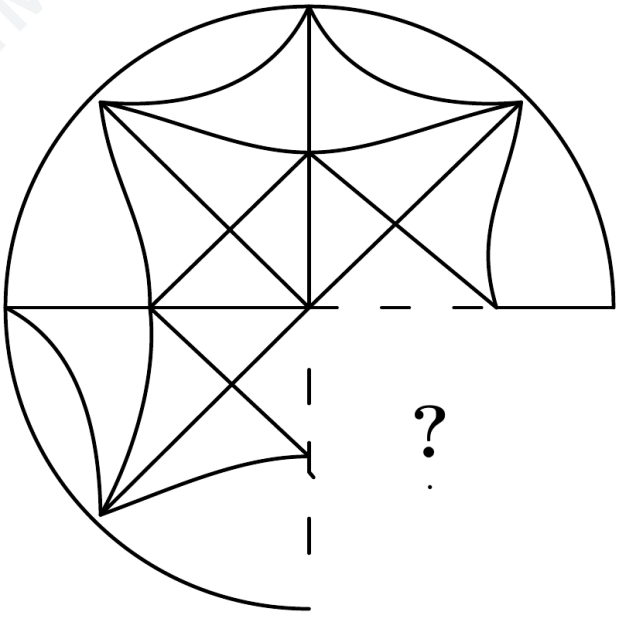
Q19. A cylindrical glass with a diameter of 20 cm is having the juice to a height of 9 cm. An ice cube of size 8 cm is amereced in it completely. How much will the juice level rise in the glass? (Use π = 3.142 and answer correctly up to the nearest mm)

(a) 63 mm
(b) 17 mm
(c) 16 mm
(d) 163 mm

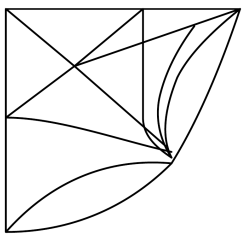
Q20. A motor car starts with a speed of 60 km/h and increases its speed after every two hours by 15 km/h. In how much time will it cover a distance of 450 km?

(a) 5 hours
(b) 9 hours
(c) 6 hours
(d) 2 hours

Q21. Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.

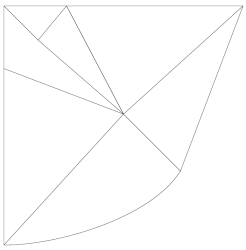


(a)

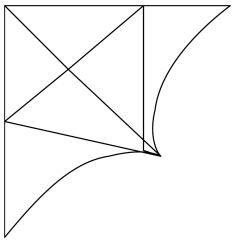


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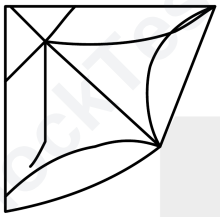
(b)



(c)



(d)



Q22. What will come in place of the question mark (?) in the following equation if '+' and '−' are interchanged and '×' and '÷' are interchanged?

62 − 36 + 18 ÷ 6 × 3 = ?

(a) 27
(b) 17
(c) 62
(d) 107

Q23. In a certain code language, 'VOLT' is coded as '5731' and 'LEAD' is coded as '4186'.

What is the code for 'L' in the given code language?

(a) 8
(b) 3
(c) 4
(d) 1

Q24. Seven friends - Asha, Sreeja, Mamata, Ramya, Hema, Jaya, and Mohini - are sitting around a circular table, facing the centre (but not necessarily in the same order). Ramya is sitting fourth to the right of Asha. Mamata sits third to the left of Ramya. Jaya has Sreeja and Mamata as immediate neighbours. Hema is sitting to the immediate right of Ramya.

Who is sitting second to the left of Mohini?

(a) Hema
(b) Sreeja
(c) Asha
(d) Ramya

Q25. What should come in place of the question mark (?) in the following series based on the English alphabetical order?

RJX, PNV, NRT, LVR, ?

(a) JZQ
(b) KAP

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(c) JZP
(d) KZP

Q26. What will come in the place of '?' in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged?

110 + 54 × 9 − 13 ÷ 2 = ?

(a) 130
(b) 144
(c) 114
(d) 136

Q27. Select the number from among the given options that can replace the question mark (?) in the following series.

9, 45, 225, 1125, 5625, ?

(a) 4679
(b) 2799
(c) 7689
(d) 28125

Q28. 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:

All Excels are Words.

All Words are PowerPoints.

Conclusions:

(I) All PowerPoints are Excels.

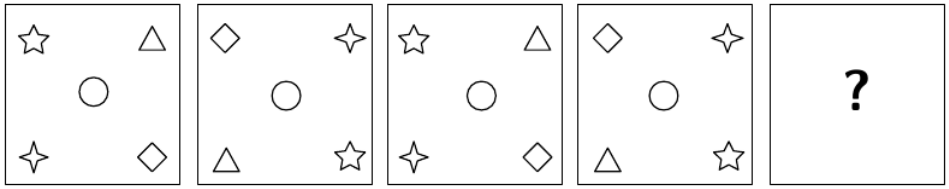
(II) At least some Words are Excels.

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

Q29. In a code language, 'PRETTY' is written as 'BIVGGK' and 'JOYFUL' is written as 'OLBUFQ'. How will 'EXOTIC' be written in the same language?

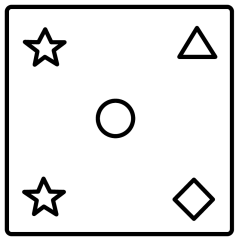
(a) XBLGRV
(b) SCLGRV
(c) SBLGRV
(d) XCLGRV

Q30. Identify the figure given in the options that when put in place of the question mark (?) will logically complete the series?

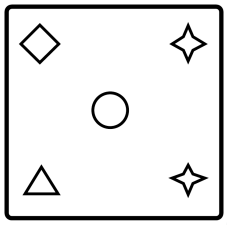


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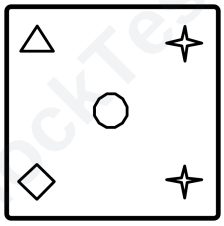
(a)



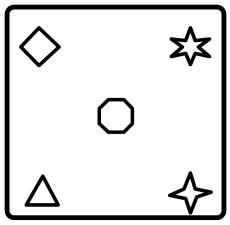
(b)



(c)



(d)



Q31. 35 is related to 105 following a certain logic. Following the same logic, 51 is related to 153. To which of the following is 72 related, following the same logic?

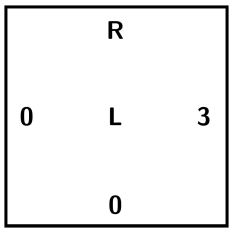
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying, etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(a) 210
(b) 212
(c) 214
(d) 216

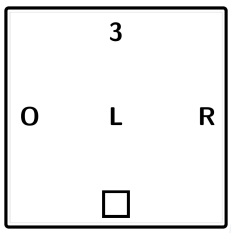
Q32. Select the figure from among the given options that can replace the question mark (?) in the following series and complete the pattern.

□ L O 3 R	R 3 L O □	L R □ 3 O	O 3 R □ L	?

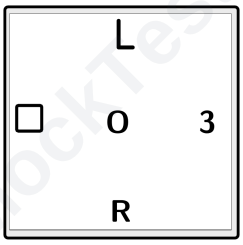
(a)



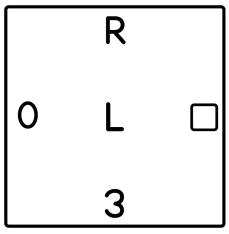
(b)



(c)



(d)



Q33. In a certain code language, 'mahima scored high' is written as 'su hu gu' and 'adi swings high' is written as 'lu gu nu'. How is 'high' written in the given language?

(a) nu
(b) lu
(c) gu
(d) su

Q34. In a certain code language, 'LINK' is coded as '4175' and 'NICK' is coded as '7419'. What is the code for 'C' in the given language?

(a) 7
(b) 1
(c) 4
(d) 9

Q35. 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 conclusion(s) logically follow(s) from the statement(s).

Statements:

All bats are mammals.

No mammal is a fish.

Conclusions:

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(I) No bat is a fish.

(II) Some fishes are mammals.

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

Q36. EJIA is related to FKJB in a certain way based on the English alphabetical order. In the same way, ZDCU is related to AEDV. To which of the following is OTSK related, following the same logic?

(a) LTPU
(b) PULT
(c) PUTL
(d) PTLU

Q37. D, E, F, L, R, S and T are sitting around a circular table facing the centre (but not necessarily in the same order). R sits second to the right of D. L sits to the immediate left of D. T sits third to the left of L. F sits third to the left of S. Neither E nor S is an immediate neighbour of R. What is the position of S with respect to R?

(a) Fourth to the left
(b) Third to the right
(c) Fifth to the right
(d) Second to the right

Q38. 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 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.)

25, 77

28, 86

(a) 34, 104
(b) 35, 103
(c) 35, 104
(d) 34, 103

Q39. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



(b)



(c)



(d)



Q40. MIPL is related to OKRN in a certain way based on the English alphabetical order. In the same way, PLSO is related to RNUQ. To which of the following is HDKG related, following the same logic?

(a) FJIM
(b) JFIM
(c) FIJM
(d) JFMI

SESSION 2

Q41. The official journey of 'Azadi Ka Amrit Mahotsav' commenced on:

(a) 15th August 2022
(b) 14th April 2021
(c) 12th March 2021
(d) 14th August 2022

Q42. Rank the following states in ascending order, based on their population density, as per Census 2011.
Tripura, Meghalaya, Manipur, Nagaland

(a) Meghalaya-Tripura-Nagaland-Manipur
(b) Nagaland-Manipur-Meghalaya-Tripura
(c) Meghalaya-Tripura-Manipur-Nagaland

(d) Nagaland-Tripura-Manipur-Meghalaya

Q43. In which of the following states can the 'Loo' phenomenon be observed?

(a) Rajasthan
(b) Goa
(c) Tamil Nadu
(d) Manipur

Q44. Who is literate according to the Census of India?

(a) A person above 14 years of age, who can read and write with understanding in any language.
(b) A person above 5 years of age, who can read and write with understanding in any language.
(c) A person above 7 years of age, who can read and write with understanding in any language.
(d) A person above 18 years of age, who can read and write with understanding in any language.

Q45. Which of the following awards and recognitions was NOT received by Vempati Chinna Satyam?

(a) Kalidas Samman
(b) Honorary doctorate
(c) Sangeet Natak Akademi Award
(d) Padma Shri

Q46. The East India Company lost all its administrative powers with the enforcement of _____.

(a) The Regulating Act, 1773
(b) The Charter Act of 1853
(c) The Government of India Act, 1858
(d) The Indian Councils Act, 1892

Q47. A three-time Olympian, PT Usha broke the Asian Games record in four events (200 m, 400 m, 400 m hurdles and 4 × 400 m relay) in _____.

(a) New Delhi, 1982
(b) Beijing, 1990
(c) Seoul, 1986
(d) Hiroshima, 1994

Q48. In which state of India is the Telaiya dam located?

(a) Bihar
(b) Jharkhand
(c) Madhya Pradesh
(d) Karnataka

Q49. Which of the following is NOT a feature of the contingency fund of India?

(a) It is established under Article 267.
(b) It is issued on behalf of the President of India.
(c) It is for emergencies.
(d) Allowances and emoluments of the President are charged under it.

Q50. The autobiography of which of the following famous Indian musicians is titled 'My Life, My Music'?

(a) Shivkumar Sharma
(b) Zakir Hussain
(c) Bismillah Khan
(d) Ravi Shankar

Q51. As of February 2023, who is the Union Minister of Road Transport and Highways?

(a) Dharmendra Pradhan
(b) Mansukh Mandaviya
(c) Nitin Gadkari

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(d) Ashwini Vaishnav

Q52. Who does NOT fall under the executive of the Indian Union?

(a) Council of Ministers
(b) President
(c) Chief Justice of India
(d) Prime Minister

Q53. Which of the following dances is performed in Goa during the festival Ganesh Chaturthi?

(a) Tarangmel
(b) Dhalo
(c) Fugdi
(d) Dhangar

Q54. Moseley observed that the plot of √v against atomic number (Z) gave a straight line. What does v indicate here?

(a) Frequency of β-rays emitted
(b) Frequency of X-rays emitted
(c) Frequency of γ-rays emitted
(d) Frequency of α-rays emitted

Q55. At which Olympic games did India receive its first Gold medal in a shooting event?

(a) London 2012
(b) Beijing 2008
(c) Athens 2004
(d) Tokyo 2022

Q56. When a river reaches a low lying plain, it continues erosion of soil as well as deposition and as a result of both these factors another river channel develops and later it is detached from the main river forming a U-shaped lake; this is called:

(a) a canal
(b) an estuary
(c) a gulf
(d) an oxbow lake

Q57. Fa-Hsien, a Chinese Buddhist Pilgrim, began his journey back home (China) from _____.

(a) Bengal
(b) Prayag
(c) Taxila
(d) Arikamedu

Q58. When was the first-round table Conference started by the British Government in London?

(a) November 1932
(b) December 1931
(c) November 1930
(d) December 1929

Q59. Which of the following is the role of fibre in the diet?

(a) Promoting digestion and bowel regularity
(b) Regulating body temperature
(c) Enhancing taste of food
(d) Providing quick energy

Q60. Lalita J Rao is associated with which of the following gharanas?

(a) Kirana gharana
(b) Jaipur gharana
(c) Agra gharana

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(d) Benaras gharana

Q61. Which of the following is a unitary feature of the Indian Constitution?

(a) Division of Powers
(b) single citizenship
(c) Written Constitution
(d) Bicameralism

Q62. 'Rajatarangini', a vivid account of the kings of Kashmir, was composed by Kalhana in the _____ language.

(a) Arabic
(b) Urdu
(c) Sanskrit
(d) Persian

Q63. Which of the following options correctly matches column-A with column-B?

Column-A (Common name)	Column-B (Scientific name)
i. Cuttle Fish	c. Sepia
ii. Silver fish	d. Lepisma
iii. Devil fish	b. Mobula
iv. Cat fish	a. Siluriformes

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

Q64. Sultan Ghari tomb is situated to west of the Qutub in Delhi is like a fortress within a walled enclosure with bastions on the corners, with its _____ grave chamber underground.

(a) squarish
(b) pentagonal
(c) rectangular
(d) octagonal

Q65. 'The Climate Smart Cities Assessment Framework 2.0' is to evaluate how many cities across India?

(a) 120
(b) 32
(c) 70
(d) 100

Q66. Select the sentence that has a grammatical error.

(a) Alka bought new pair of shoes for the party.
(b) He was an honest engineer by profession.
(c) Suhas has a younger brother and an elder sister.
(d) It was a huge zoo with an elephant enclosure.

Q67. Select the correct idiom to substitute the underlined segment in the following sentence.

His remarks made the matter worse.

(a) Added fuel to the fire
(b) Spilled the bean
(c) Made a splash
(d) Killed two birds with one stone

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Q68. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The athletes / trained tirelessness / to prepare for / the upcoming competition.

(a) to prepare for
(b) trained tirelessness
(c) The athletes
(d) the upcoming competition

Q69. Select the option that rectifies the INCORRECT spelling in the given sentence.

Pleasee allow me to start.

(a) Pleaasse
(b) Pleesae
(c) Please
(d) Pleasse

Q70. Select the most appropriate option to fill in the blank.

The storm caused extensive damage to homes, _____ many families homeless.

(a) to leave
(b) leave
(c) is left
(d) leaving

Q71. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

He is / an expert / in / an English literature.

(a) He is
(b) in
(c) an English literature
(d) an expert

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

Grease someone's palm

(a) To flatter someone
(b) To beat someone
(c) To abuse someone
(d) To bribe someone

Q73. Select the most appropriate option that can substitute the underlined segment in the given sentence.

The elusive moon peeked from behind the clouds, illuminating the earth with its gentle glow.

(a) glowing up the earth for
(b) empowering the earth via
(c) lighting up the earth with
(d) encouraging the earth with

Q74. Select the INCORRECTLY spelt word.

(a) Admittance
(b) Admissible
(c) Admission
(d) Admited

Q75. Select the correct spelling of the incorrectly spelt word in the given sentence.

He was suspended from the party due to his suspicicous activities.

(a) Suspicius
(b) Suspisious
(c) Suspeceous
(d) Suspicious

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

Ambrosial

(a) Faithful
(b) Pleasing
(c) Vengeful
(d) Malodorous

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

Frugal

(a) Cheap
(b) Profligate
(c) Thrifty
(d) Happy

Q78. Select the most appropriate meaning of the underlined phrase.

Those who have died cannot be brought back to life.

(a) Resurrect
(b) Retract
(c) Abstract
(d) Extract

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

Hermetic

(a) Intelligible
(b) Obnoxious
(c) Lucid
(d) Esoteric

Q80. Select the most appropriate ANTONYM of the underlined word.

she had garnered the information from various books.

(a) Criticised
(b) Implemented
(c) Dispersed
(d) Liberated

Q81. The following sentence has been split into four segments. Identify the segment that contains a grammatical/spelling error.

He was lying at / his bed when he / saw the snake entering / through the window.

(a) through the window
(b) his bed when he
(c) He way lying at
(d) saw the snake entering

Q82. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

She is learning / to play the guitar / to pursue her passion / for the music.

(a) for the music.
(b) to play the guitar
(c) to pursue her passion
(d) She is learning

Q83. Select the most appropriate option that can substitute the underlined segment in the given sentence.

A raven, which you know is black as coal, was envious of the swan, because her feathers are as white as the purest snow.

(a) feathers is a white as

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(b) feathers were as white as
(c) feathers is as white as
(d) feathers was a white as

Q84. Select the most appropriate synonym of the given word.

Vivid

(a) Varied
(b) Soothing
(c) Bright
(d) Dull

Q85. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Do you know the purpose of a fire extinguisher? It helps to put up with an engulfing fire, in case of an emergency.

(a) run away with
(b) turn over
(c) stand out
(d) put out

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.

Khashaba Jadhav was the independent India's first individual olympic medallist. There (1) _____ some firsts that stay in history forever. The one held by Khashaba Jadhav is one such first. He might have been referred to as the Pocket Dynamo, but his deeds dwarfed those of far (2) _____ athletes in his sport. Just a couple of years after India had become a Republic, Jadhav took part in the 1952 Olympics at Helsinki, Finland. As funding sportspersons weren't really a (3) _____ for a country just finding its feet, Jadhav's trip to Helsinki was actually funded by the public. Jadhav however, (4) _____ his way to fame, becoming independent India's first individual Olympic medal winner. He (5) _____ bronze in the bantamweight category.

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

(a) is
(b) was
(c) were
(d) are

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

(a) smaller
(b) big
(c) small
(d) bigger

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

(a) priority
(b) posteriority
(c) supremacy
(d) subsequence

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

(a) buckled-under
(b) wrestled
(c) Lazed
(d) Surrendered

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

(a) lulled
(b) constructed
(c) claimed
(d) forgave

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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