SSC MTS 2024 Official Paper (Held On: 21 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. A total of 24 men working 7 hours a day can complete a task in 10 days. In how many days will 21 men working 9 hours a day complete the same task?

(a) 77/8 days
(b) 99/10 days
(c) 66/7 days
(d) 88/9 days

Q2. The total surface area of a right circular cylinder is 628frac47 cm². If its radius is 4 cm, then the height (rounded off to the nearest whole number) of cylinder is equal to:

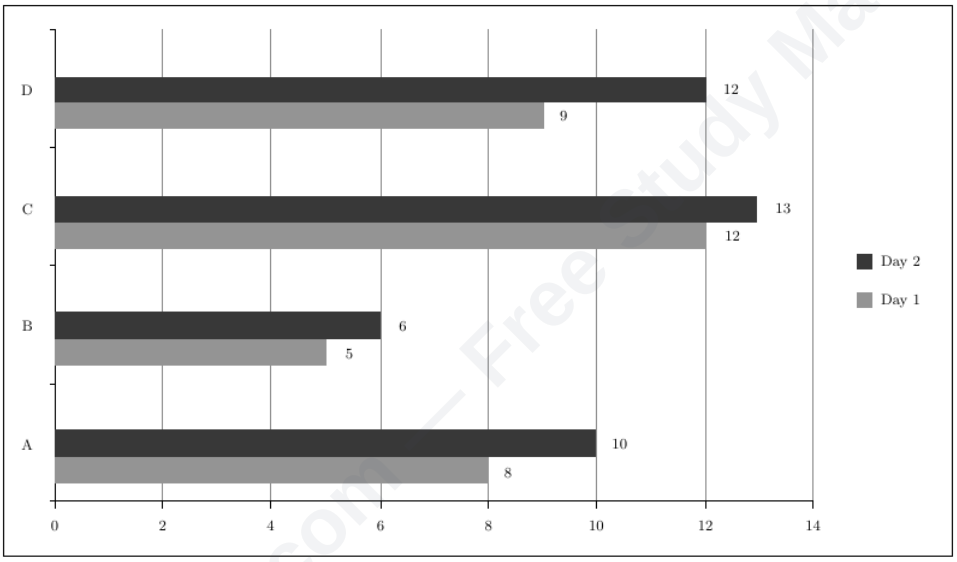
(Take π = 22/7)

(a) 12 cm
(b) 15 cm
(c) 21 cm
(d) 18 cm

Q3. The following table indicates the distances (in km) travelled by 4 vehicles (A, B, C and D) in 2 days and the bar graph indicates the time (in hours) taken by the vehicles to travel the distances, respectively. The x - axis indicates the time (in hours) and the y - axis indicates the vehicles. Study the bar graph carefully and answer the question that follows.

Vehicles	Day 1	Day 2
A	480	600
B	360	420
C	720	780
D	630	720

Time taken by 4 vehicles to travel the distances.



Which of the following vehicles travelled at the same speed on both the days?

(a) Only A and D
(b) A, C and D
(c) Only C and D
(d) Only A and C

Q4. Find the simple interest (in Rs.) on Rs. 3500 as a sum borrowed at 3% per year rate of interest for 6 years.

(a) 670
(b) 630
(c) 590
(d) 570

Q5. Find the area of a parallelogram with a base of 12 m and a height of 20 m.

(a) 120 m²
(b) 144 m2
(c) 240 m2
(d) 210 m2

Q6. The average of nine consecutive numbers is 45. The largest number among these numbers is:

(a) 50
(b) 49
(c) 48
(d) 41

Q7. The table shows the production of different types of cars (in thousands).

Years / Cars	2019	2020	2021	2022
P	57	94	71	91
Q	23	25	46	26
R	15	67	13	39
S	69	34	62	24

What is the ratio of the total production of cars of type Q in 2020 and type R in 2022 taken together to the total production of cars of type S in 2019 and type P in 2021 taken together?

(a) 22 : 17
(b) 35 : 16
(c) 17 : 22
(d) 16 : 35

Q8. A can contains a mixture of two liquids, grape juice and pineapple juice in the ratio 13 : 11. When 8 litres of the mixture is drawn off, and the can is filled with pineapple juice, the ratio becomes 13 : 14. How many litres of pineapple juice was initially contained in the can?

(a) 14 litres
(b) 28 litres
(c) 11 litres
(d) 33 litres

Q9. A dishonest dealer claims to sell groceries at cost price and still makes a profit of 222/39%. For a kg, he uses a weight of:

(a) 985 g
(b) 978 g
(c) 975 g
(d) 981 g

Q10. Find the HCF of 576,324 and 360.

(a) 72
(b) 108
(c) 144
(d) 36

Q11. Find the arithmetic mean of 5, 15, 25, 26, and 27.

(a) 19.6
(b) 18.6
(c) 20.6
(d) 17.6

Q12. A shopkeeper buys 15 mobiles and sells 12 mobiles at the cost price of 15 mobiles. If the shopkeeper sells all the mobiles at the same price at which he sold the 12 mobiles in the first case, what is the profit percentage?

(a) 22.5%
(b) 27.5%
(c) 20%
(d) 25%

Q13. A sum of money amounts to Rs. 7,436 after 6 years and Rs. 9,460 after 10 years at the same rate of simple interest. Find the rate of interest per annum.

(a) 12.5%
(b) 13%
(c) 11.5%
(d) 12%

Q14. A tradesman marks his goods at 40% above the cost price and then allows customers a discount of 15%. What is the profit percentage for the tradesman?

(a) 25%
(b) 21%
(c) 19%
(d) 15%

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Q15. Find the volume of the largest right circular cone which is inscribed in a hollow cube of length 6 units and is standing on its base.

(a) 18π units³
(b) 9π units³
(c) 21π units³
(d) 10π units³

Q16. If the average of 53 consecutive even numbers is 1280. Find the difference between the smallest and the largest number.

(a) 24
(b) 34
(c) 124
(d) 104

Q17. Distance between A and B is 1200 km. If they start moving towards each other at same time, they will meet in 24 hrs. If A starts 10 hrs after B, then they will meet after another 20 hrs. What are their respective speeds?

(a) 30 km/h, 20 km/h
(b) 25 km/h, 35 km/h
(c) 35 km/h, 25 km/h
(d) 40 km/h, 25 km/h

Q18. Raghav covers a distance of 45 km in 1 hour 40 minutes. Assuming he maintains a constant speed throughout his journey, what is Raghav's speed (in m/s)?

(a) 9
(b) 6
(c) 7.5
(d) 7.2

Q19. The price of a commodity is increased by 20% and then again by 25%. By what per cent should the increased price be reduced to get back to the initial price?

(a) 331/3%
(b) 45%
(c) 221/2%
(d) 25%

Q20. Find the simple interest (in Rs.) on Rs. 2500 as a sum borrowed at 5% per year rate of interest for 6 years.

(a) 710
(b) 690
(c) 790
(d) 750

Q21. 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 kites are eagles.

All eagles are birds.

Conclusions:

(I) All birds are kites.

(II) Some birds are eagles.

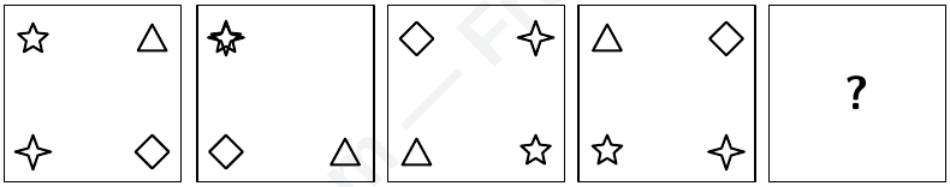
(a) Only conclusion (I) follows
(b) Neither conclusion (I) nor (II) follows
(c) Both conclusion (I) and (II) follow
(d) Only conclusion (II) follows

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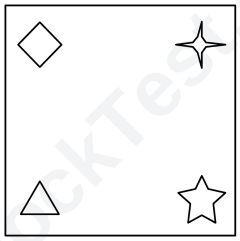
Q22. In a certain code language, ‘BIKE CAR SCOOTER’ is written as ‘SS RR PP’ and ‘CAR CYCLE TRUCK’ is written as ‘PP TT LL’ and ‘CYCLE BIKE TRAIN’ is written as ‘RR ZZ TT’. How is ‘SCOOTER’ written in the given language?

(a) SS
(b) PP
(c) RR
(d) ZZ

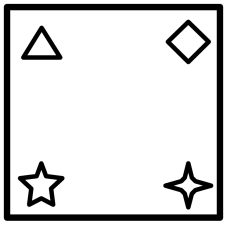
Q23. Identify the figure given in the options that when put in place of the question mark (?) will logically complete the series?



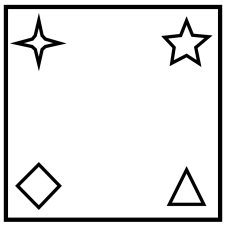
(a)



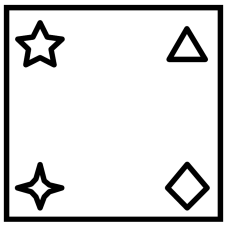
(b)



(c)



(d)



Q24. In a certain code language, 'BLUE' is coded as '5193' and 'CABS' is coded as '3246'. What is the code for 'B' in the given code language?

(a) 4
(b) 6
(c) 5
(d) 3

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Q25. 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 horses are goats.

All goats are jackals.

Conclusions:

(I): Some horses are jackals.

(II): All jackals are goats.

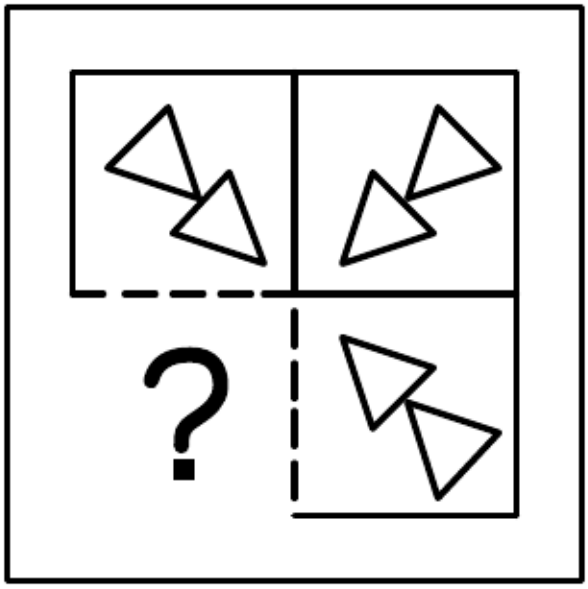
(a) Only conclusion (I) follows.
(b) Both conclusions (I) and (II) follow.
(c) Only conclusion (II) follows.
(d) Neither conclusion (I) nor (II) follows.

Q26. 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 three people sit between E and F when counted from the left of E. Only three people sit between G and D when counted from the right of D. A sits to the immediate right of G. C is an immediate neighbour of D as well as F.

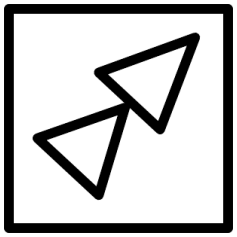
Who sits second to the left of B?

(a) G
(b) C
(c) A
(d) E

Q27. Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.

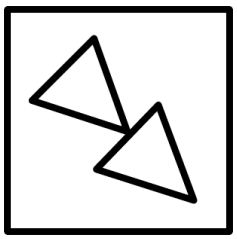


(a)

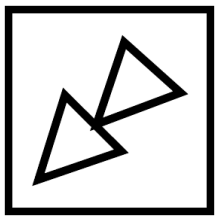


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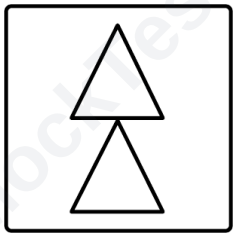
(b)



(c)



(d)



Q28. GNJF is related to IPLH in a certain way based on the English alphabetical order. In the same way, KRNJ is related to MTPL.To which of the following is OVRN related, following the same logic?

(a) QXTP
(b) XQPT
(c) QXPT
(d) XQTP

Q29. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

MSN, LRM, KQL, JPK, ?

(a) JOI
(b) JIO
(c) IOJ
(d) IJO

Q30. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

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(a)



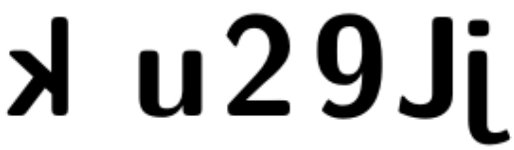
(b)



(c)

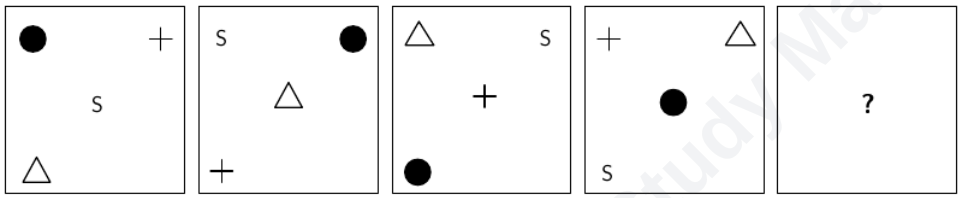


(d)

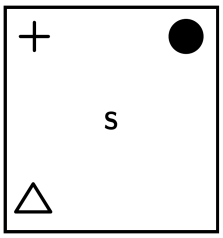


Q31. Select the figure from the given options, which when put in place of the question mark (?) will logically complete the series.

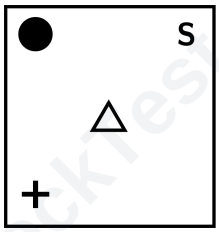
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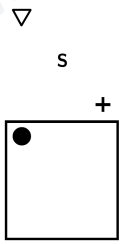
(a)



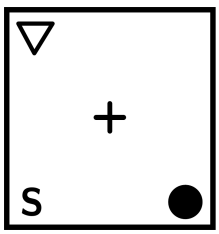
(b)



(c)



(d)



Q32. Which two signs should be interchanged to make the following equation correct?

33 × 19 – 24 ÷ 8 + 4 = 40

(a) • and +
(b) ÷ and ×
(c) • and ×
(d) • and ÷

Q33. What should come in place of the question mark (?) in the given series?

6, 12, ?, 144, 720, 4320, 30240

(a) 36
(b) 42
(c) 40
(d) 38

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Q34. In a certain code language, 'MILK' is coded as '5642' and 'LIKE' is coded as '8425'. What is the code for 'E' in that language?

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

Q35. In a certain code language, ‘SOAP’ is coded as ‘4729’ and ‘POSE’ is coded as ‘9257’. What is the code for ‘E’ in that language?

(a) 7
(b) 2
(c) 9
(d) 5

Q36. Which two numbers should be interchanged to make the following equation correct?

(8÷ 2)× 11 −9× 3 + (51÷ 17) × 6 = 30

(Note: Interchange should be done of the entire number and not individual digits of a given number.)

(a) 3 and 6
(b) 9 and 11
(c) 9 and 6
(d) 11 and 6

Q37. ZMJI is related to UIGG in a certain way based on the English alphabetical order. In the same way, TIMN is related to OEJL. To which of the following is PHJI related, following the same logic?

(a) KJED
(b) KDGG
(c) KGDF
(d) GKHF

Q38. 4 is related to 41 following a certain logic. Following the same logic, 9 is related to 91. To which of the following is 13 related,

(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) 131
(b) 129
(c) 130
(d) 127

Q39. Five friends, Ashish, Bipin, Chandu, Dinesh and Emmanuel, went on a trek. On the mountain top, they lit a campfire and sat around it in a circle facing the centre (but not necessarily in the same order).

It was recalled that there was only one person sitting between Ashish and Chandu, while Chandu himself was sitting second to the left of Bipin.

If Dinesh was an immediate neighbour of both Chandu and Bipin, who was sitting to the immediate right of Ashish?

(a) Chandu
(b) Dinesh
(c) Bipin
(d) Emmanuel

Q40. 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.)

18, 29

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49, 60

(a) 84, 95

(b) 88, 79

(c) 92, 123

(d) 86, 99

SESSION 2

Q41. Who among the following led the Indian delegation to attend the 56^(th) Annual General Meeting of the Board of Governors of Asian Development Bank (ADB) along with Investor/ Bilateral and other associated meetings, in Incheon, the Republic of Korea, from 2 to 5 May 2023?

(a) Meenakshi Lekhi

(b) Nirmala Sitharaman

(c) Smriti Irani

(d) Renuka Singh Saruta

Q42. According to Article 51A of the Indian Constitution, it is the fundamental duty of every person to uphold and protect the sovereignty, unity and _____.

(a) spirituality of India

(b) harmony of India

(c) diversity of India

(d) integrity of India

Q43. The process by which a water body gradually becomes enriched with nutrients and minerals, mainly phosphorus and nitrogen, leading to enormous growth of algae on the surface of the water, thus decreasing the amount of dissolved oxygen in the water is known as:

(a) Eutrophication

(b) Biomagnification

(c) Hypoxia

(d) Bioaccumulation

Q44. Who among the following freedom fighters was associated with the series of nine articles known as 'New Lamp for Old'?

(a) Aurobindo Ghose

(b) Sardar Ajit Singh

(c) Bhagat Singh

(d) Swami Vivekananda

Q45. The Buland Darwaza was the structure built by Akbar at which of the following places in India?

(a) Fatehpur Sikri

(b) Agra

(c) Lahore

(d) Delhi

Q46. Who introduced 'Objective Resolution' in the Constituent Assembly?

(a) Rajendra Prasad

(b) Jawaharlal Nehru

(c) Vallabhbhai Patel

(d) BR Ambedkar

Q47. Raja and Radha Reddy were awarded the Padma Bhushan in 2000 for giving a new dimension to which dance form?

(a) Sattriya

(b) Odissi

(c) Kuchipudi

(d) Manipuri

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Q48. 'The Best Mistakes of My Life' is an autobiography of which Indian Actor?

(a) Salman Khan
(b) Shahrukh Khan
(c) Dilip Kumar
(d) Sanjay Khan

Q49. Which of the following options contains groups of cropping seasons in India?

(a) Rabi, Kharif and Zaid
(b) Rabi, Podu and Zaid
(c) Rabi, Kharif and Jhum
(d) Ray, Kharif and Zaid

Q50. A tunnel that runs through the cell wall between two plant cells is known as:

(a) ribosome
(b) protoplasm
(c) peroxisome
(d) plasmodesmata

Q51. Which state topped the medal tally at the 37^(th) National Games event held in Goa?

(a) Punjab
(b) Kerala
(c) Haryana
(d) Maharashtra

Q52. Thetakudi Harihara Vinayakram, who became the first Carnatic musician to win a Grammy, is known for playing which musical instrument?

(a) Kanjira
(b) Ghatam
(c) Shehnai
(d) Mridangam

Q53. During the Mauryan society, Megasthenes divided the Indian society into seven distinct groups. In which distinct group were the 'king's counsellors' placed?

(a) Seventh
(b) First
(c) Fifth
(d) Second

Q54. How many other members are there in the Finance Commission EXCEPT, Chairman?

(a) 6
(b) 4
(c) 3
(d) 5

Q55. Bhangra and Giddha dance forms are associated with which Indian state?

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

Q56. Which of the following banking institutions played an instrumental role in financial inclusion through microfinance loans and their expansion in India?

(a) State Bank of India
(b) Reserve Bank of India
(c) Central Bank of India

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(d) National Bank for Agriculture and Rural Development

Q57. Deodhar Trophy is given in _____.

(a) hockey
(b) football
(c) tennis
(d) cricket

Q58. The elements in Group 17 of the periodic table are known as:

(a) noble gases
(b) alkali metals
(c) halogens
(d) transition metals

Q59. Who among the following married the Mughal emperor Jahangir in 1611 and received the title 'Nur Jahan'?

(a) Jahanara Begum
(b) Hasina Begum Sahiba
(c) Mehrunnisa
(d) Mumtaz Mahal

Q60. What solution should be used to test for the presence of starch in food?

(a) Ethylene glycol – water solution
(b) Magnesium solution
(c) Talc solution
(d) Iodine solution

Q61. Which of the following ministries has launched the National Career Service Portal (www.ncs.gov.in) ?

(a) Ministry of Education
(b) Ministry of Personnel, Public Grievances and Pensions
(c) Ministry of Labour and Employment
(d) Ministry of Youth Affairs and Sports

Q62. As per Census 2011, which of the following union territories has the highest percentage of rural population?

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

Q63. On which of the following days is National Integration Day observed?

(a) 2 October
(b) 15 August
(c) 26 January
(d) 19 November

Q64. Which of the following is not a tributary of Godavari River?

(a) Indravati
(b) Pranhita
(c) Kameng
(d) Manjira

Q65. Who among the following are the target beneficiaries for the 'Vishwakarma Yojana' launched by Government of India on 17 September 2023?

(a) Individuals skilled in traditional folk dance
(b) Individuals skilled in traditional craftsmanship
(c) Individuals skilled in traditional folklore

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(d) Individuals skilled in traditional folk songs

Q66. Select the INCORRECTLY spelt word.

(a) perceive
(b) parliment
(c) pastime
(d) perseverance

Q67. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The dancer / performed weird / but the music was / highly enchanting.

(a) highly enchanting.
(b) performed weird
(c) The dancer
(d) but the music was

Q68. Select the grammatically correct sentence.

(a) An intricate dance of neurotransmitters in the synaptic cleft plays the crucial role in neural communication.
(b) An intricate dance of neurotransmitters in a synaptic cleft plays a crucial role in neural communication.
(c) The intricate dance of neurotransmitters in the synaptic cleft plays a crucial role in neural communication.
(d) The intricate dance of neurotransmitters in a synaptic cleft plays the crucial role in neural communication.

Q69. Select the grammatically correct sentence.

(a) If you want to have a sound working knowledge of Japanese, you must read this book.
(b) If you want to have an sound working knowledge of Japanese, you must read this book.
(c) If you want to have sound working knowledge of the Japanese, you must read this book.
(d) If you want to have a sound working knowledge of the Japanese, you must read this book.

Q70. Select the option that can be used as a one-word substitute for the highlighted group of words in the given sentence.

RK Laxman was well-known for his drawings of people in such a highly exaggerated manner as to cause laughter.

(a) articles
(b) sketches
(c) portraits
(d) caricatures

Q71. Select the correctly spelled sentence.

(a) The audience applauded the muzicians performance.
(b) The audiance applauded the musicians performance.
(c) The audience applauded the musician's performance.
(d) The audiance applauded the musician's performance.

Q72. Select the most appropriate synonym of 'clarify' in the sentence given below.

The last question of the examination paper confused me when it asked to illustrate the Pythagoras' theorem with the help of examples.

(a) Last
(b) Illustrate
(c) Help
(d) Confused

Q73. Select the most appropriate idiom for the underlined segment in the given sentence.

Sarvana failed in the examination last week and is in extreme depression these days.

(a) In the red
(b) In cold blood
(c) In the doldrums
(d) In the lurch

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Q74. Select the word that has the same meaning (SYNONYM) as the underlined word in the given sentence.

Shylock, the Jewish moneylender, and Antonio, the rich Merchant of Venice loathed each other.

(a) lathered
(b) admired
(c) abhorred
(d) latte

Q75. Select the most appropriate meaning of the given idiom.

Head in the clouds

(a) Being impractical
(b) Being punctual and sincere
(c) Working hard
(d) Thinking about the sky and clouds

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

Jurisdiction

(a) Governance
(b) Expression
(c) Violation
(d) Descent

Q77. Change the following sentence into positive degree.

Sushma is one of the smartest girls in the class.

(a) Few girls in the class are as smart as Sushma.
(b) Sushma is the smart girl of the class.
(c) Sushma is smarter than any other girls in the class.
(d) No other girl is as smart as Sushma.

Q78. The following sentence has been split into four segments. Identify the segment that contains an error in phrasal verb.

Bindu asked Arya to fill out for / her so that she could / take care of / her sick father.

(a) Bindu asked Arya to fill out for
(b) her so that she could
(c) her sick father
(d) take care of

Q79. Select the most appropriate option to fill in the blank.

The restaurant's menu featured a variety of _____ dishes.

(a) delecious
(b) delicous
(c) delicious
(d) delitious

Q80. In the following sentence the underlined part contains an error. Alternatives to the underlined part are given as options. Choose the correct alternative.

She is late than we expected.

(a) latter
(b) more late
(c) later
(d) latest

Q81. Select the most appropriate option to fill in the blank.

I always prefer a small, cosy cottage _____ a high-rise apartment.

(a) than
(b) for

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(c) from
(d) to

Q82. Select the most appropriate synonym of the underlined word in the following sentence.
Success demands hard work, diligence and perseverance.
(a) Indolence
(b) Coolness
(c) Trouble
(d) Effort

Q83. Select the option that can be used as a one-word substitute for the given group of words.
A person who travels from place to place, especially for work
(a) Vagrant
(b) Nomad
(c) Pilgrim
(d) Itinerant

Q84. Choose the correctly spelt word to fill in the blank meaningfully.
His _____ is a brilliant student.
(a) sune
(b) sun
(c) son
(d) sone

Q85. Select the most appropriate option to fill in the blank.
Woodcutting involves the removal of useless trees first. _____ by medium and finest quality timber trees.
(a) followed
(b) adjusted
(c) enacted
(d) compared

Directions

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate op on to fill in each blank.

We are familiar with the quote, " "If winter comes, can spring be far _1_?" Winters are depressing, but we bear because we know that it will not _2_ till perpetuity. Spring _3_ a new life in us. As the spring begins to set itself, the nights become shorter and the days get longer. Gardens and lawns become colourful, buds _4_ as flowers, birds chirp and butterflies fly from one flower to another to _5__ on the sweet nectar. The dullness is taken over by brightness.

Q86. Select the most appropriate option to fill in blank number 1.
(a) behind and far
(b) behind and below
(c) far behind
(d) behind

Q87. Select the most appropriate option to fill in blank number 2.
(a) hold
(b) last
(c) hold on
(d) rest

Q88. Select the most appropriate option to fill in blank number 3.
(a) imbue
(b) immerse
(c) inculcate

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(d) infuses

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

(a) take out
(b) come out
(c) fall over
(d) pull out

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

(a) gulp
(b) food
(c) gobble
(d) suck

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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