SSC MTS 2024 Official Paper (Held On: 28 Oct, 2024 Shift 2) (Previous Year Paper)

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

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SESSION 1

Q1. Find the simple interest (in Rs.) on Rs. 3000 as a sum borrowed at 8% per year rate of interest for 4 years.

(a) 920
(b) 1000
(c) 960
(d) 900

Q2. A shopkeeper sold the Refrigerator and the Geyser set together for Rs. 30,400, thereby making a profit of 25% on the Refrigerator and 10% on the Geyser. By selling them together for Rs. 30,700, he would have made a 10% profit on the Refrigerator and 25% on the Geyser. Now, if the Geyser is sold at 17% profit, then the selling price (in Rs.) of the Geyser is:

(a) 14,380
(b) 12,130
(c) 16,380
(d) 17,510

Q3. If 30% of P = 0.6 of Q = 1/3 of R, then P : Q : R is:

(a) 10 : 5 : 9
(b) 10 : 5 : 7
(c) 5 : 10 : 9
(d) 5 : 10 : 7

Q4. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 71 kg and 37 kg is:

(a) 51.6
(b) 50.6
(c) 52.6
(d) 49.6

Q5. A 735 m long train passes through a 225 m long tunnel in 48 sec. Find the speed of the train.

(a) 54 km/h
(b) 66 km/h
(c) 72 km/h
(d) 82 km/h

Q6. A hemispherical solid of radius 21 cm is melted and made into a cylinder whose height is 14 cm. The volume of the cylinder is given by (a x b^a x c^b)π where a, b and c are prime. Then the value of (a+b)c is

(a) 66
(b) 42
(c) 54
(d) 35

Q7. The ratio of the I class and II class AC train coach fares between two stations is 5 : 3, and that of the number of passengers travelling between the two stations by I class and II classes AC coach is 3 : 10. If on a particular day Rs. 37,080 is collected from passengers travelling between the two stations, then find the amount collected from second class AC coach passengers.

(a) Rs. 24,720
(b) Rs. 27,420
(c) Rs. 20,247
(d) Rs. 22,047

Q8. Find the ratio in which tomatoes worth Rs. 45/kg can be mixed with tomatoes worth Rs. 60/kg, so that the mixture will be worth Rs. 54/kg.

(a) 3 : 7
(b) 3 : 5
(c) 2 : 3
(d) 2 : 5

Q9. A batsman scores 152 runs in his 15^(th) inning, which increases his average score by 5 runs. Find the average score per inning of the batsman after the 15^(th) innings.

(a) 85
(b) 41
(c) 77
(d) 82

Q10. A shopkeeper offers 38% discount on a certain item. He announces an additional 15% discount to a customer for paying cash. A customer paid a cash amount of Rs. 2,108 for that item. What is the marked price (in Rs.) of the item?

(a) 3,560
(b) 3,800
(c) 4,200
(d) 4,000

Q11. In what ratio must a shopkeeper mix sugar at Rs. 30/kg and Rs. 32.5/kg so that by selling the mixture at Rs. 34.1/kg, he may get 10% profit?

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

Q12. The following table shows the marks obtained by five students in five different subjects. Study the table carefully and answer the question that follows

Subject/Student	A	B	C	D	E
Jacob	56	44	40	33	35
Arjun	90	94	62	86	74
Ashwin	66	72	64	84	92
Rashad	78	42	66	48	76
Neha	58	54	48	72	88

What is the difference between the total marks obtained by Ashwin in all subjects together and that of the total marks obtained by Neha in all subjects together?

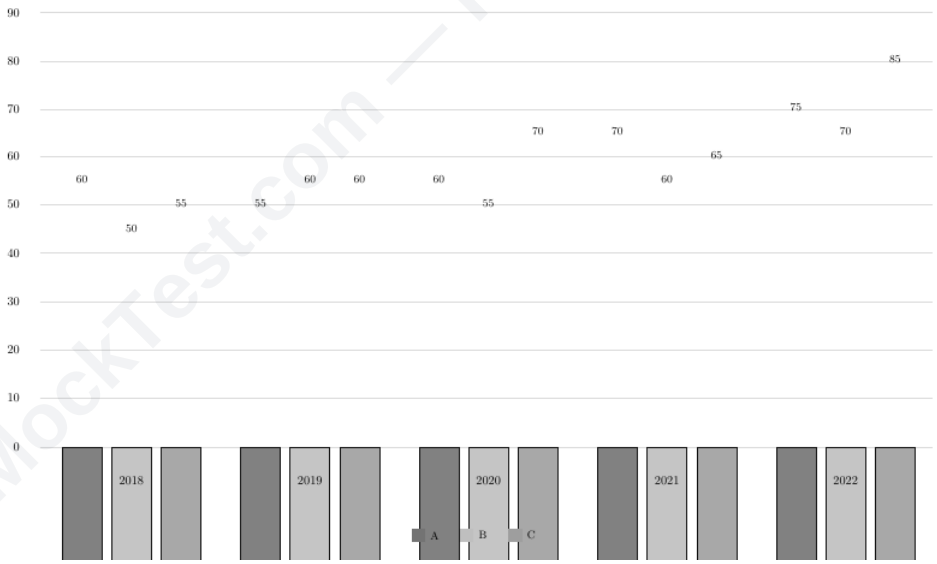
(a) 78
(b) 52
(c) 58
(d) 62

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Q13. A well with an internal diameter of 8 m is dug to a depth of 12 m. The earth taken out of it is spread all around the well to a width of 8 m to form an embankment. What is the height (in m) of the embankment?

(a) 1.0
(b) 2.2
(c) 1.5
(d) 1.3

Q14. The bar graph given below shows the earnings of three LIC agents (in rupees lakh) from LIC commission during the year 2018 to 2022. The total earnings of agent A is what per cent of the total earnings of agent C during the year 2020 to 2022? (Rounded off to 2 decimal places)



(a) 96.98%
(b) 91.38%
(c) 93.18%
(d) 98.13%

Q15. Simplify the following expression.

$(5 \times 5 + 5 - 5 \times 5 + 5 - 5 \times 5) + (5 \times 5) \div 5\ (2 + 3)$

(a) 25
(b) 10
(c) 20
(d) 5

Q16. What sum (in Rs.) will earn a simple interest of Rs. 360 in 2 years at 4% per year rate of interest?

(a) 2250
(b) 2600
(c) 4500
(d) 9000

Q17. What is the height of a solid cylinder whose radius is 7 cm and the total surface area is 704 cm^2? (Use π = frac227)

(a) 12 cm
(b) 9 cm
(c) 8 cm
(d) 7 cm

Q18. Arun has taken some money as loan on simple interest for 6 years. The money lender levied interest at 4% per annum for the first 2 years, at 8% per annum for the next 3 years and at 12% per annum for the period beyond 5 years. If Arun clears his loan by paying Rs. 5,472, then what was the sum (in Rs.) he had taken as loan?

(a) 3,800

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(b) 2,640
(c) 3,040
(d) 12,436

Q19. A shopkeeper sells an item at a profit of 25% and dishonestly uses a weight that is 30% less than the actual weight. Find his total profit percentage.
(a) 23%
(b) 42%
(c) 78.57%
(d) 65.75%

Q20. A car covers the first 12 km distance at a speed of 30 km per hour, the next 15 km distance at a speed of 45 km/h and the next 20 km distance at a speed of 60 km/h. Find the average speed of the car.
(a) 331/17 km/h
(b) 473/26 km/h
(c) 441/16 km/h
(d) 392/19 km/h

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:
No bat is a wicket.
No wicket is a glove.
Conclusions:
(I) No bat is a glove.
(II) No wicket is a bat.
(a) Only conclusion II follows.
(b) Neither conclusion I nor II follows.
(c) Both conclusions I and II follow.
(d) Only conclusion I follows.

Q22. In a certain code language, 'YOUR' is coded as '1245' and 'OURS' is coded as '4216'. What is the code for 'Y' in that language?
(a) 4
(b) 6
(c) 1
(d) 5

Q23. What should come in place of the question mark (?) in the following series based on the English alphabetical order?
RSP, TQN, VOL, XML, ?
(a) YKH
(b) AKH
(c) ZKH
(d) YLH

Q24. 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.)
(2, 70, 82)
(26, 17, 53)
(a) (36, 42, 90)
(b) (79, 12, 141)

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(c) (71, 78, 122)
(d) (54, 88, 152)

Q25. In a certain code language, 'PORK' is written as '7358' and 'CREW' is written as '1693'. How is 'R' written in that code language?
(a) 5
(b) 6
(c) 3
(d) 9

Q26. Which numbers should come in place of the question marks (?) in the same sequence to make the series logically complete?
19, 33, 21, 30, 23, 27, ?, 24, ?
(a) 23, 25
(b) 28, 25
(c) 25, 27
(d) 25, 26

Q27. QBON is related to UFSR in a certain way based on the English alphabetical order. In the same way, FCLT is related to JGPX. To which of the following is AOGS related, following the same logic?
(a) BQJW
(b) CQIU
(c) ERJV
(d) ESKW

Q28. P, Q, R, S, T and U are sitting around a round table facing the centre (but not necessarily in the same order). P is sitting to the immediate right of U and immediate left of S. S is sitting to the immediate left of T. Q is sitting to the immediate right of T and immediate left of R. Who is sitting to the immediate right of R?
(a) T
(b) U
(c) P
(d) S

Q29. 5 is related to 120 following a certain logic. Following the same logic, 3 is related to 24. To which of the following is 2 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) 13
(b) 7
(c) 6
(d) 11

Q30. GI23 is related to SU31 in a certain way. In the same way, MO56 is related to YA64. To which of the following is SU78 related, following the same logic?
(a) GE68
(b) EG68
(c) EG86
(d) GE66

Q31. Which two signs should be interchanged to make the given equation correct?
60 × 10 + 12 ÷ 4 − 16 = 74
(a) − and +
(b) ÷ and ×
(c) • and ×

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(d) • and ×

Q32. What will come in place of the question mark (?) in the following equation if '+' and '−' are interchanged and '×' and '÷' are interchanged?

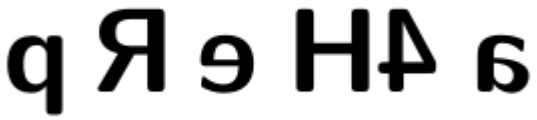
84 – 112 × 8 + 15 ÷ 3 = ?

(a) 45
(b) 63
(c) 57
(d) 53

Q33. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



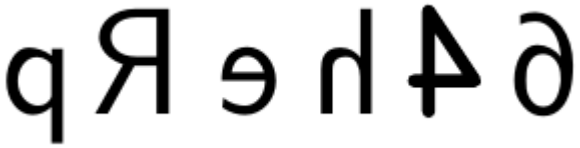
(a)



(b)



(c)



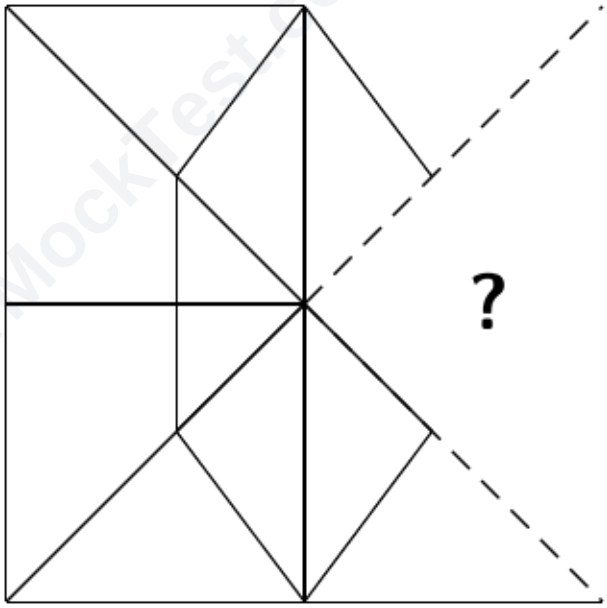
(d)

qReh4a

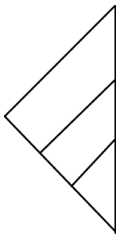
Q34. In a certain code language, 'car struck in traffic' is written as 'ku cu nu nu' and 'truck struck on road' is written as 'pu du ku tu'. How is 'struck' written in the given language?

(a) tu
(b) du
(c) ku
(d) pu

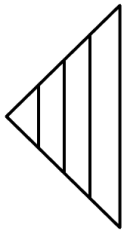
Q35. Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.



(a)

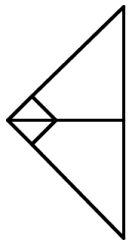


(b)

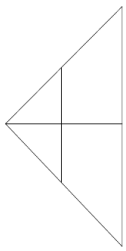


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(c)



(d)



Q36. 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 watches are belts.

Some belts are ties.

Conclusions:

(I) Some watches are ties.

(II) Some belts are watches.

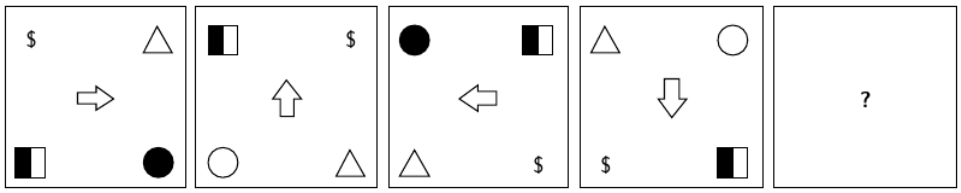
(a) Only conclusion I follows

(b) Only conclusion II follows

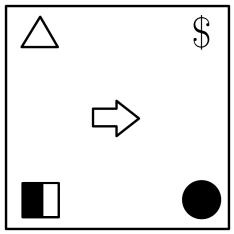
(c) Neither conclusion I nor II follows

(d) Both conclusion I and II follow

Q37. Identify the figure given in the options that when put in place of the question mark (?) will logically complete the series.

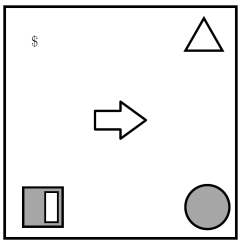


(a)

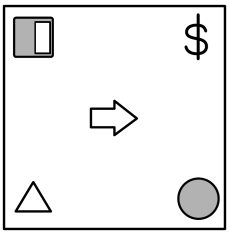


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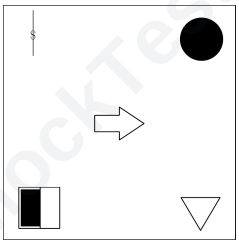
(b)



(c)



(d)



Q38. U, V, W, X, Y, K and A are sitting around a circular table facing the centre (but not necessarily in the same order).

Only two people live between W and X when counted from the left of X.U sits third to the left of K.V sits to the immediate right of K.V sits second to the left of W.Y is not an immediate neighbour of U.

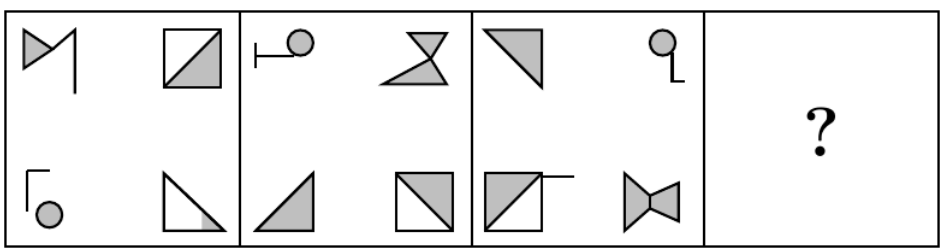
Who sits third to the right of A?

(a) U
(b) V
(c) W
(d) K

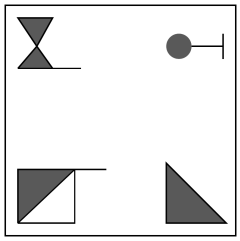
Q39. In a certain code language, ‘WOLF’ is coded as ‘4729’ and ‘FLEW’ is coded as ‘9254’. What is the code for ‘E’ in that language?

(a) 4
(b) 9
(c) 2
(d) 5

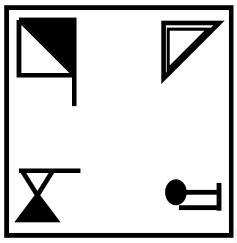
Q40. Select the figure from among the given options that can replace the question mark (?) in the following series.



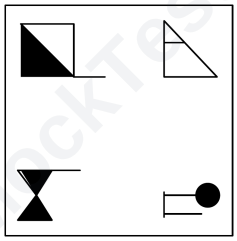
(a)



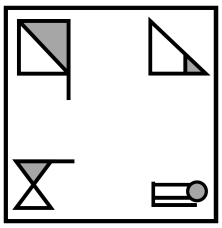
(b)



(c)



(d)



SESSION 2

Q41. Which Article states that it shall be the duty of every citizen of India to abide by the constitution and respect its ideals and institutions, the National Flag and the National Anthem?

(a) 51A (a)
(b) 52
(c) 14
(d) 54 (b)

Q42. Which of the following statements about phylum Arthropoda are correct?

A. Animals of Arthropoda have joint appendages.
B. They have compounds eyes.
C. These make up the majority of all animals on earth.
D. The mode of reproduction in all Arthropods is vegetative.

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

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Q43. Which of the following is the principal strategy adopted by National Literacy Mission for the eradication of illiteracy?

(a) Total Literacy Campaign
(b) Sarva Shiksha Abhiyan
(c) Education Guarantee Scheme
(d) Alternative and Innovative Education

Q44. The construction of Humayun's tomb was completed by:

(a) Zeenat Mahal
(b) Mah Chuchak Begum
(c) Rahmat Banu Begum
(d) Biga Begum

Q45. The Patli Dun is associated with which physiographic division of India?

(a) The Coastal Plains
(b) The Peninsular Plateau
(c) The Indian Desert
(d) The Himalayan Mountains

Q46. Consider the following statements in the context of the Mughal Rule.

1. The Mansabdari System was introduced by Akbar in 1571.
2. The Second Battle of Panipat was fought in 1556.
3. Maharana Pratap Singh of Mewar was a contemporary of Babur.

Which of the statements given above is/are correct?

(a) Only 2
(b) Both 1 and 2
(c) Both 2 and 3
(d) 1, 2 and 3

Q47. Who built Sudarshan lake in Junagarh?

(a) Skandgupta
(b) Chandra Gupta
(c) Pushyagupta
(d) Bhanugupta

Q48. Which of the following dance categories is NOT considered for an award of the Sangeet Natak Akademi?

(a) Manipuri
(b) Vilasini Natyam
(c) Kuchipudi
(d) Kathak

Q49. Which of the following personalities had the key role in fighting against the British East India Company in the Battle of Porto Novo?

(a) Hyder Ali
(b) Maharaja Ranjit Singh
(c) Alamgir-II
(d) Gopala Nayaker

Q50. What is the primary function of the notochord in chordates?

(a) Locomotion
(b) Support
(c) Digestion
(d) Respiration

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Q51. Manipuri Raas Leela, a renowned form of classical dance, was created by:

(a) Birju Maharaj
(b) Siddhendra Yogi
(c) Sage Bharata
(d) Maharaja Bhagyachandra

Q52. In February 2023, UNICEF India announced the appointment of which celebrated Bollywood star as a National Ambassador for Child Rights?

(a) Pankaj Tripathi
(b) Aamir Khan
(c) Pankaj Kapoor
(d) Ayushmann Khurrana

Q53. Fuels that are derived from fossils are preserved only in which kind of rocks?

(a) Metamorphic rocks
(b) Volcanic rocks
(c) Plutonic rocks
(d) Sedimentary rocks

Q54. Select the imbalanced chemical equation from the following.

(a) 10 KClO_³ + 3 P4 → 3 P4O10 + 10 KCl
(b) 6 HClO4 + P4O10 → 4 H3PO4 + 6 Cl2O7
(c) 3 CaCl2 + 2 Na3PO4 → Ca3(PO4)2 + 6 NaCl
(d) 3 Hg(OH)2 + 2 H3PO4 → Hg3(PO4)2 + 6 H2O

Q55. Yashodhara Dalmia is the author of which famous book?

(a) Paintings in the Kangra Valley
(b) Ajanta
(c) The Painted World of the Warlis
(d) Indian Art

Q56. Who among the following was appointed as the director-general in the Directorate General of Civil Aviation in February 2023?

(a) Ajay Kumar Bhalla
(b) Rajiv Gauba
(c) Vikram Dev Dutt
(d) Pramod Kumar Mishra

Q57. Which of the following does NOT figure among the themes of 'Azadi Ka Amrit Mahotsav'?

(a) Health@75
(b) Ideas@75
(c) Actions@75
(d) Resolve@75

Q58. Which country hosted the Football World Cup, 2022?

(a) UAE
(b) Argentina
(c) France
(d) Qatar

Q59. Who explained the system of classifying musical instruments into Tata, Sushira, Avanaddha and Ghana in his treatise 'Natya Shastra' in the early 2^(nd) century?

(a) Bharata Muni
(b) Bhairav
(c) Samgadeva

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(d) Swami Haridas

Q60. Which of the following statements is true about Micro Finance institutions?

(a) Type of banking service provided to employed
(b) Service provided to High income people only
(c) Majority of microfinancing operations occur in developing countries
(d) Can provide jumbo loan

Q61. What is the rank of India in the Global Hunger Index (GHI) 2023?

(a) 115
(b) 120
(c) 105
(d) 111

Q62. In which year did India first participate in the Paralympic Games?

(a) 1964
(b) 1972
(c) 1968
(d) 1980

Q63. Which Article of the Indian Constitution deals with the appointment and duties of the Attorney-General of India?

(a) Article 74
(b) Article 80
(c) Article 76
(d) Article 81

Q64. Which of following organisations sought to revive Vedic learning and combine it with modern education in the sciences?

(a) Arya Samaj
(b) Satyashodhak Samaj
(c) Brahmo Samaj
(d) Prarthana Samaj

Q65. In which state is the 'slash and burn' agriculture known as 'Dahiya'?

(a) Madhya Pradesh
(b) Himachal Pradesh
(c) Andhra Pradesh
(d) Arunachal Pradesh

Q66. Select the INCORRECTLY spelt word.

Nylon was among the first synhitic fibre made by man and is known for its toughness, strength and resistance to oil and grease.

(a) toughness
(b) strength
(c) resistance
(d) synhitic

Q67. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement'.

The name, Khajuraho, has probably been derived from the word 'Khajoor', meaning date palm.

(a) be derived into
(b) derive at
(c) derives into
(d) No improvement

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Q68. The following sentence contains an error. Select the option that correctly rectifies the error.

The robbers stabbed him by a sharp knife and he started bleeding profusely on the spot.

(a) The robbers stabbed her
(b) but he started bleeding
(c) profusely from the spot
(d) with a sharp knife

Q69. Select the most appropriate option to fill in the blank.

Tom will _____ the document to the office tomorrow.

(a) mall
(b) meal
(c) mail
(d) male

Q70. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

You have spoilt / the little chance you / had at succeeding.

(a) the little chance you
(b) had at succeeding.
(c) You have spoilt
(d) No error

Q71. Select the word that has the same meaning (SYNONYM) as the underlined word in the given sentence.

The vital role played by women at home and in the struggle for freedom, advanced the case for female emancipation soon after the war was over.

(a) freedom
(b) bondage
(c) utility
(d) objectivity

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

That question is / much difficult / but this one is / very easy.

(a) That question is
(b) very easy
(c) much difficult
(d) but this one is

Q73. Identify the most appropriate ANTONYM of the word in brackets.

The magician's performance was (captivating) and held the audience spellbound.

(a) Boring
(b) Fascinating
(c) Enchanting
(d) Gripping

Q74. Select the sentence that has a grammatical error.

(a) I went to watch a play with one of my friends.
(b) A famous poet wrote that poem.
(c) A dog likes sunlight.
(d) He resides near an university.

Q75. Select the INCORRECTLY spelt word.

(a) Thief
(b) Believe
(c) Recieve

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(d) Relief

Q76. Select the most appropriate option to fill in the blank.

I will not be able to _____ my assignment in time.

(a) complete
(b) completes
(c) completed
(d) completing

Q77. Select the most appropriate synonym of the underlined word.

His eloquent speech moved the audience to tears.

(a) Vernacular
(b) Inarticulate
(c) Angry
(d) Expressive

Q78. Select the appropriate option that can substitute the bracketed word in the following sentence to make it grammatically correct.

The grapes taste (sweetest)..

(a) more sweeter
(b) sweeter
(c) sweet
(d) most sweeter

Q79. Select the most appropriate option that can substitute the underlined segment in the given sentence.

The intersection of nature conservation and social justice is evident in efforts to ensure that marginalised communities and other backward classes should have equal access to natural reserves.

(a) Manifest in actions to redesign
(b) Unclear in initiatives to safeguard
(c) apparent in endeavours to guarantee
(d) obvious in attempts to recollect

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

Her amicable nature made it easy for her to forge positive relationships.

(a) Sad
(b) Aggressive
(c) Friendly
(d) Attentive

Q81. Select the correctly spelt word to fill in the blank.

The play was shortened by the _____ of two scenes.

(a) omission
(b) addition
(c) ommsion
(d) insirtion

Q82. Select the most appropriate option to fill in the blank.

As 'brutal' is synonymous to 'harsh', 'naive' is synonymous to _____.

(a) simple
(b) hospitable
(c) wise
(d) worldly

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Q83. Select the most appropriate meaning of the given idiom.

Hornet's nest

(a) A difficult task
(b) A bee's nest
(c) A troublesome or hazardous situation
(d) A house built with great difficulty

Q84. Select the most appropriate option that can substitute the underlined segment in the given sentence.

The manager complained that Sheetal's email was not up to the standard for the company.

(a) up to the mark
(b) an uphill task
(c) up and doing
(d) under the nose

Q85. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

Mutka requested Nikita to share the picture taken during the wedding.

(a) will requests Nikita to share
(b) requesting Nikita to share
(c) requested Nikita for share
(d) No improvement required

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.

Saltwater crocodiles are also known as estuarine crocodiles, as they (1)_____ to live in mangrove lined rivers. They’re the (2)_____ living reptile, reaching up to seven metres in length: far larger than Indonesia’s famous Komodo dragon, which tops out at three metres. (3)_____, crocodiles lived throughout the Indonesian archipelago. We have (4)_____ of attacks on humans in Bali from the early 20th century and across much of Java until the 1950s. Even Indonesia’s capital, Jakarta, had crocodile’s (5)_____in many rivers running through the city.

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

(a) defer
(b) refer
(c) differ
(d) prefer

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

(a) fattest
(b) largest
(c) broadest
(d) poorest

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

(a) Historically
(b) Abysmally
(c) Fanatically
(d) acrobatically

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

(a) recipes
(b) records
(c) regiments
(d) residues

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

(a) relevance
(b) resistance
(c) residence
(d) remembrance

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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