SSC MTS (2022) Official Paper (Held On: 15 Jun, 2023 Shift 1) (Previous Year Paper)

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

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Practise under exam conditions, then review your answers after you submit.

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SESSION 1

Q1. Find out the area of triangle of base 7 cm and corresponding height 12 cm.

(a) 42 cm2
(b) 54 cm2
(c) 43 cm2
(d) 44 cm2

Q2. If 3/5 of 80 percent of a number is 450, then what is the number?

(a) 810.8
(b) 925.5
(c) 937.5
(d) 945.8

Q3. 25 percent of marked price is equal to 40 percent of cost price. If no discount is given, then what will be the profit percentage?

(a) 66.66 percent
(b) 40 percent
(c) 60 percent
(d) 50 percent

Q4. A sum of Rs. 1500 amounts to Rs. 2175 in 3 years at simple interest. If rate of interest is increased by 3 percent, then what will be the new amount?

(a) Rs. 2310
(b) Rs. 2050
(c) Rs. 2460
(d) Rs. 2250

Q5. The ratio of salary of P, Q and R is 5 : 6 : 8. If R gets Rs. 2200 more than Q, then what is the salary of P?

(a) Rs. 6500
(b) Rs. 7000
(c) Rs. 7700
(d) Rs. 5500

Q6. Pipe P alone can fill a tank in 18 hours and Pipe Q alone can fill the same tank in 24 bours. If both the pipes are opened on alternate hours one at a time and pipe Q is opened for first hour, then in how much time the tank will be completely full?

(a) (64/5) hours
(b) (78/5) hours
(c) 20 hours
(d) (62/3) hours

Q7. The simple interest received on a sum for 20 years is 3/5 of the sum. What is the annual rate of interest?

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

Q8. One liquid contains 20% of acid the other liquid contain 30% of acid. A can is filled with 7 parts of the first liquid and 3 parts of the second liquid. The percentage of the acid in the new mixture is:

(a) 13%
(b) 30%
(c) 14%
(d) 23%

Q9. Selling price of an article is Rs. 817. If loss percentage is 14 percent, then what is the cost price of the article?

(a) Rs. 850
(b) Rs. 950
(c) Rs. 880
(d) Rs. 900

Q10. Mixture of milk and water in three bottles of equal capacity is in the ratio 4 : 1, 4 : 3 and 1 : 2 respectively. These three bottles are emptied into a large bottle. What will be the ratio of milk and water respectively in the large bottle?

(a) 179 : 136
(b) 152 : 165
(c) 198 : 175
(d) 133 : 145

Q11. The table given below shows the demand and production of five articles.

Articles	Demand	Production
A	175	225
B	200	300
C	100	250
D	50	400
E	400	500

J1 = The difference between total demand and total production of A, B and C.

J2 = The value of average of demand and production of E.

What is the value of (J1 - J2)?

(a) 100
(b) -150
(c) 150
(d) -100

Q12. A metallic solid sphere has radius 35 cm. If it is melted to form small spheres of radius 5 cm, then how many small spheres will be obtained?

(a) 343
(b) 289
(c) 429
(d) 369

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Q13. What is the least number of students in a class such that they can make rows of 10, 15 and 20 and also the total number of students is a perfect square?

(a) 6400
(b) 1600
(c) 900
(d) 1800

Q14. What is the value of (1.2 × 1.2+0.2 × 0.2+1.2 × 0.4)/(1.8 × 1.8+0.4 × 0.4-1.8 × 0.8) ?

(a) 0.1
(b) 0.25
(c) 0.2
(d) 1

Q15. Walking at the speed of 8 km/hr, a man covers certain distance in 2 hour 30 minutes. Running at a speed of 10 km/hr, the man will cover the same distance in:

(a) 2 hours 10 minutes
(b) 1 hour
(c) 1 hour 45 minutes
(d) 2 hours

Q16. Profit after selling a commodity for Rs. 400 is same as loss after selling it for Rs.300. The cost of the commodity is:

(a) Rs. 450
(b) Rs. 400
(c) Rs. 350
(d) Rs. 250

Q17. What is the value of (25 × 25-12 × 12+13 × 13)/(12 × 5+10 ÷ 2) ?

(a) 10
(b) 5
(c) 65
(d) 13

Q18. A person covers first 26 km in 60 minutes and next 34 km in 30 minutes. What is his average speed for the whole journey?

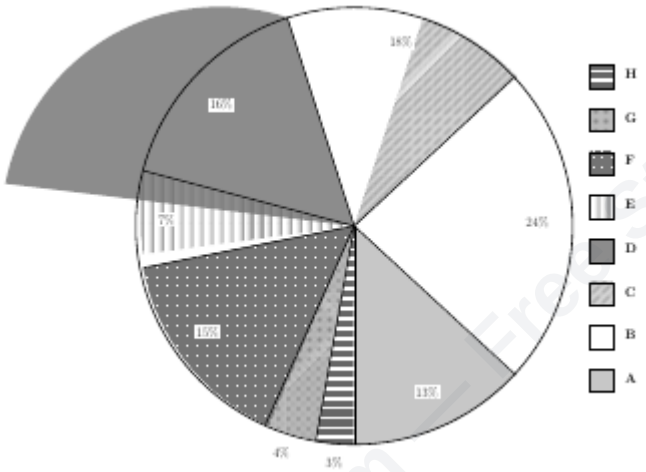
(a) 40 km/hr
(b) 46 km/hr
(c) 32 km/hr
(d) 38 km/hr

Q19. After working alone for 12 days, Reena finds that only 10 percent of the work is completed. She employs Priya who is 40 percent more efficient than Reena. How many more days will they together take to complete the remaining work?

(a) 30 days
(b) 50 days
(c) 45 days
(d) 40 days

Q20. The pie chart given below shows the number of cars sold by 8 different companies. The total number of cars sold by all these 8 companies are 1000. Number of cars sold by a particular company is shown as a percent of total number of cars sold by all these 8 companies.

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What is the difference between the central angle formed by sectors A, B and C together and the central angle formed by sectors E, F and G together?

(a) 72.8°
(b) 88.4°
(c) 104.4°
(d) 102.6°

Q21. In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:

I. Some boy are human.

II. All human are hard.

Conclusion:

I. Some hard are not boy.

II. Some human are not boy.

III. No hard is human.

(a) Both conclusions I and III follows
(b) Both conclusions II and III follows
(c) Only conclusion I follows
(d) Neither conclusion follows

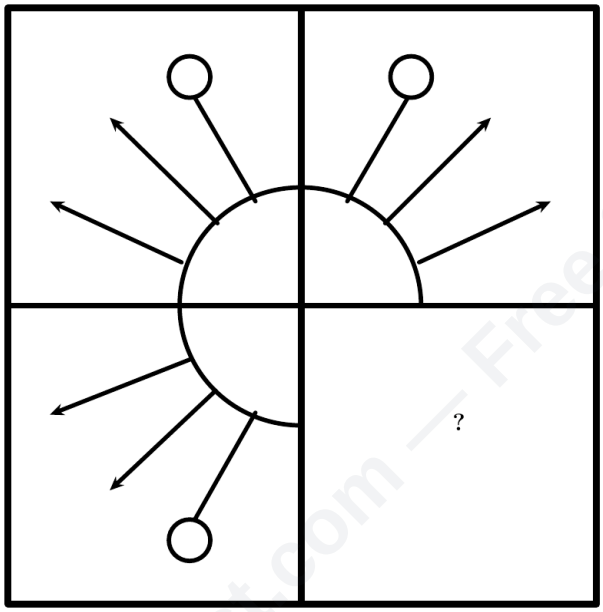
Q22. Select the option that is related to the third number in the same way as the second number is related to the first number.

57 : 286 :: 43 : ?

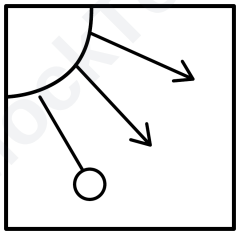
(a) 215
(b) 206
(c) 216
(d) 217

Q23. Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern. (Rotation is not allowed)

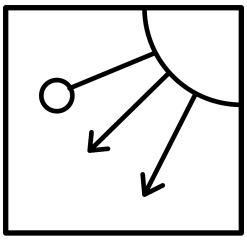
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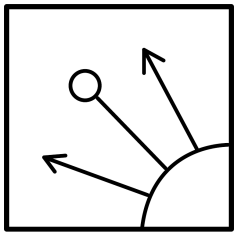
(a)



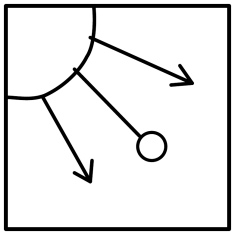
(b)



(c)



(d)



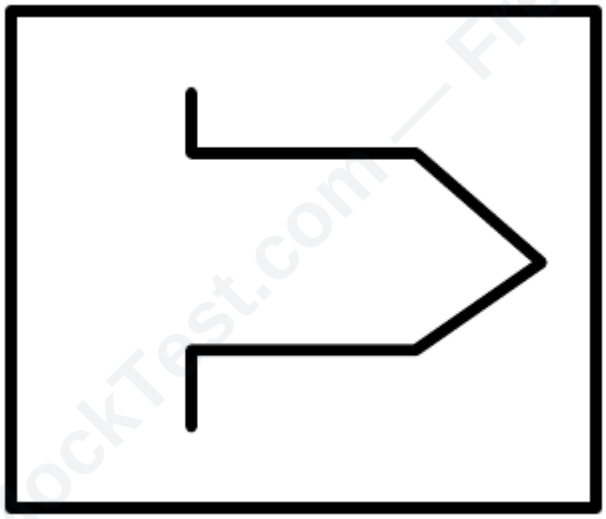
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Q24. After interchanging the given two signs and two numbers, what will be the value of the given equation?

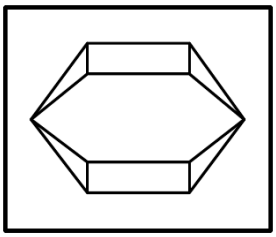
÷ and ×, 7 and 4 ; 7 ÷ 6 + 4 - 3 × 1

(a) 50
(b) 28
(c) 35
(d) 20

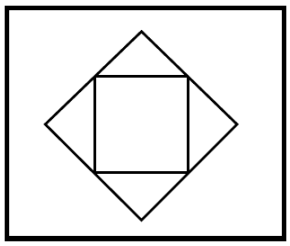
Q25. Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).



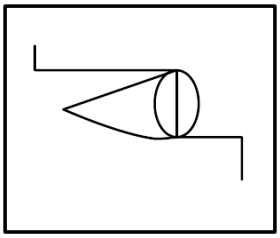
(a)



(b)

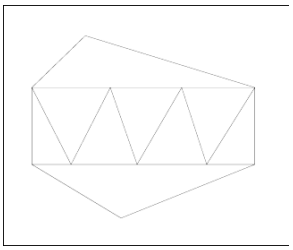


(c)



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(d)



Q26. Eight friends Anil, Kamal, Ram, Sanjay, Aakash, Vivek, Rahul and Ramu are sitting around a circular table facing towards the centre (not necessarily in the same order). Vivek is second to the right of Anil. Kamal is third to the left of Anil. Ramu is second to the right of Vivek. Ram is second to the right of Ramu. Aakash is second to the right of Rahul. Rahul is not the immediate neighbour of Vivek. Who is third to the right of Aakash?

(a) Kamal
(b) Ram
(c) Vivek
(d) Ramu

Q27. Among five friends Parineeta, Naira, Rinky, Shristi and Tina, Tina is taller than only three other friends. Rinky is tallest among all friends. Naira is taller than only one person. Only two persons are taller than Parineeta. Who is the shortest among all the friends?

(a) Tina
(b) Naira
(c) Parineeta
(d) Shristi

Q28. Which of the following numbers will replace the question mark (?) in the given series?

63, 64, 60, 69, 53, ?

(a) 77
(b) 76
(c) 88
(d) 78

Q29. Which of the following numbers will replace the question mark (?) in the given series?

8, 24, 40, 56, 72, 88, 104, ?

(a) 220
(b) 320
(c) 420
(d) 120

Q30. Select the option that is related to the third word in the same way as the second word is related to the first word.

Admit : Deny :: Hate : ?

(a) Loathe
(b) Abhor
(c) Adore
(d) Despise

Q31. Which two numbers should be interchanged to make the given equation correct?

$108 \div 6 - 18 + 8 \times 9 = 42$

(a) 108 and 18
(b) 9 and 6
(c) 18 and 9
(d) 6 and 8

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Q32. Words given on the left side of (::) are related with each other by some Logic/Rule/Relation. Select the missing word/word pair on the right side of (::) from the given alternatives based on the same Logic/Rule/Relation.

Crop : Farmer :: Book : ?

(a) Author
(b) Paper
(c) Dramatist
(d) Read

Q33. 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 blues are yellows.

All yellows are red.

Conclusions:

I. Some blues are red.

II. All red are yellow.

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

Q34. Select the option in which the numbers shares the same relationship in set as that shared by the numbers in the given set.

(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)

(4, 1, 25)

(8, 5, 169)

(a) (10, 8, 361)
(b) (4, 9, 144)
(c) (5, 9, 196)
(d) (2, 7, 100)

Q35. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

CAB, DDG, EGL, FJQ, ?

(a) GNV
(b) GMV
(c) GMU
(d) GNU

Q36. In a certain code language, 'LUCK' is coded as 'HQYG'. What is the code for 'MATH' in that code language?

(a) IWPC
(b) IWQD
(c) IWPE
(d) IWPD

Q37. In a certain code language, 'APPALL' is coded as 'JLYPNA'. What is the code for 'APPEND' in that code language?

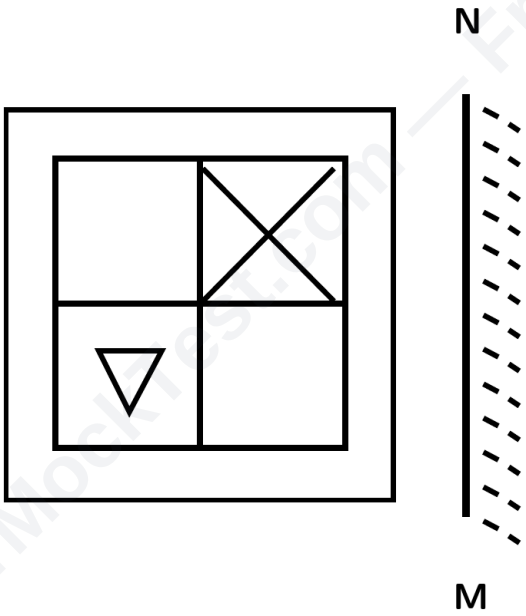
(a) BNCPNA
(b) BCNPNA
(c) BNCPAN
(d) BCNNPA

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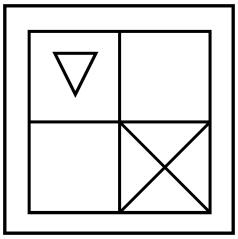
Q38. Seven girls A, B, C, D, E, F and G are sitting around a circular table facing opposite to the centre (not necessarily in the same order). D is second to the right of G. G is third to the right of C. F is third to the right of B. A is not the immediate neighbour of C. E is the immediate neighbour of C. Who is second to the right of A?

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

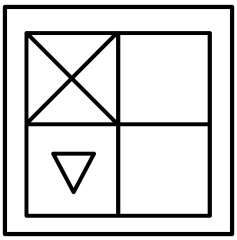
Q39. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.



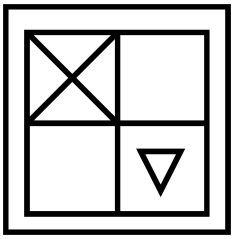
(a)



(b)

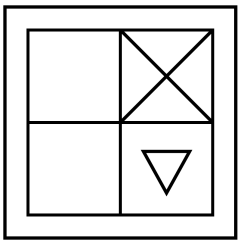


(c)



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(d)



Q40. In a certain code language, 'FUNNY' is written as 'LATTE' and DRIVE' is written as 'JXOBK'. How will 'CLASS' be written in that language?

(a) IRGZZ
(b) IRGXX
(c) IRGYY
(d) IRHYY

SESSION 2

Q41. Who was the founder of a non-violent movement named as "Khudai Khidmatgars"?

(a) C. Rajagopalachari
(b) Khan Abdul Ghaffar Khan
(c) Mohammad Ali Jinnah
(d) Mahatma Gandhi

Q42. Which of the following metal is always a component in an amalgam?

(a) Strontium
(b) Mercury
(c) Zinc
(d) Aluminium

Q43. Bhimbetka caves are situated in which of the following states?

(a) Madhya Pradesh
(b) Rajasthan
(c) Haryana
(d) Gujarat

Q44. Treasury bills are issued by the _____.

(a) Securities and Exchange Board of India
(b) Government of India
(c) Reserve Bank of India
(d) Insurance Regulatory Authority of India

Q45. National Tribal Dance Festival 2022 was held in which place?

(a) Jaipur
(b) Raipur
(c) Pune
(d) Puri

Q46. According to the Competition Amendment Bill, 2022, the penalty for gun-jumping is proposed to be ____ of the deal value.

(a) 0.5%
(b) 1.5%
(c) 1%
(d) 2%

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Q47. The Chief Minister of which of the following states launched the second phase of Ladli Laxmi Scheme 2.0 in November 2022?

(a) Uttar Pradesh
(b) Andhra Pradesh
(c) Bihar
(d) Madhya Pradesh

Q48. 'Golden Girl' is the autobiography of _____.

(a) P.T. Usha
(b) Divya Dutta
(c) Saina Nehwal
(d) Neena Gupta

Q49. In the Indian subcontinent, how many country/countries share its land frontiers with every member country of the subcontinent?

(a) Two
(b) Three
(c) Four
(d) One

Q50. How many Fundamental Duties were added in the Constitution of India by the 42nd Amendment?

(a) 12
(b) 11
(c) 9
(d) 10

Q51. Which among the following books was written by Dr. Raghuram Rajan?

(a) The Third Pillar
(b) We are Displaced
(c) The India Story
(d) My Life in Full

Q52. Dilwara Temple is one of the finest and architecturally renowned _____ temples in India.

(a) Buddhist
(b) Hindu
(c) Jain
(d) Sikh

Q53. Which Indian music composer received his second Grammy award in 2022 for the album 'Divine Tides'?

(a) P. A. Deepak
(b) Ricky Kej
(c) Manoj George
(d) Tanvi Shah

Q54. Which freedom fighter was involved in the Kakori Train Action in 1925, for which the British government condemned him to death?

(a) Ram Prasad Bismil
(b) Lala Hardayal
(c) Vinayak Damodar Savarkar
(d) Mahatma Gandhi

Q55. As of 2022, which among the following countries is the largest importer of Indian iron ore?

(a) Russia
(b) China
(c) France

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(d) United States of America

Q56. When was the first non-synchronous census conducted in India?

(a) 1872
(b) 1772
(c) 1792
(d) 1972

Q57. Yamini Krishnamurthy is a famous exponent of which form of dance?

(a) Bharatnatyam
(b) Odissi
(c) Bihu
(d) Mohiniattam

Q58. Akbar's revenue system "Zabt" was developed by _____.

(a) Todar Mal
(b) Bairam Khan
(c) Raja Bharmal
(d) Raja Man singh

Q59. The number of live births per thousand persons in a year is called _____.

(a) Death rate
(b) Fertility rate
(c) Crude rate
(d) Birth rate

Q60. In June 2022, the "Cabinet Committee on Economic Affairs" has approved deregulation of _____.

(a) Sale of Defence Equipment
(b) Sale of Nuclear Weapons
(c) Sale of Domestically Produced Crude Oil
(d) Sale of Chemical Weapons

Q61. Which among the following is the structural and fundamental unit of life?

(a) Tissue
(b) Enzyme
(c) Cell
(d) Hormone

Q62. _____ are the vessels which carry blood away from the heart to various organs of the body.

(a) Veins
(b) Tracheas
(c) Arteries
(d) Plasma

Q63. The satellites orbit the earth in which of the following layers of the atmosphere?

(a) Stratosphere
(b) Exosphere
(c) Troposphere
(d) Mesosphere

Q64. Ryder Cup is associated with _____ sport.

(a) Cycling
(b) Cricket
(c) Swimming
(d) Golf

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Q65. Who become Wisden's Leading Cricketer in the world 2018?

(a) Rohit Sharma
(b) Kane Williamson
(c) Virat Kohli
(d) Ben Stokes

Q66. 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.

He gritted his teeth and tried to act as though he (either noticed nor cared).

(a) neither noticed nor cared
(b) No correction required
(c) either noticed or cared
(d) neither noticed cared

Q67. Select the most appropriate option to fill in the blank.

Her ribs were _____ but no longer painful.

(a) soar
(b) sore
(c) sour
(d) sure

Q68. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

Harry's eyes watered in / the chill as they soar upwards; he / could see nothing below now.

(a) could see nothing below now.
(b) the chill as they soar upwards; he
(c) Harry's eyes watered in
(d) No error

Q69. Improve the underlined part of the sentence. Choose 'No improvement' as an answer if the sentence is grammatically correct.

A health person may carry germs of typhoid, cholera, dysentery, etc. in his body.

(a) health persons might
(b) healthy person may
(c) No improvement
(d) healthy persons would

Q70. Choose the word that is opposite in meaning to the given word.

Similar

(a) Bizarre
(b) Resemblant
(c) Unlike
(d) Secretive

Q71. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

Hearing those words / from his mouth, was / hard than I thought.

(a) hard than I thought.
(b) No error
(c) Hearing those words
(d) from his mouth, was

Q72. Select the most appropriate meaning of the given idiom

To pull your weight

(a) To do your full share of work
(b) To help one's relatives

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(c) To buy something
(d) To give something

Q73. Identify the segment that contains a grammatical error. If there is no error, select No error'.
At night, lying sleepless, he considered/ sending messengers besides the country, / secretly, in search of his friend.
(a) secretly, in search of his friend.
(b) At night, lying sleepless, he considered
(c) sending messengers besides the country,
(d) No error

Q74. Four words are given, out of which three words are spelt correctly. Choose the incorrectly spelt word.
(a) Referred
(b) Recommend
(c) Separate
(d) Publically

Q75. Select the most appropriate word for the given group of words.
The art of careful public speaking, using clear pronunciation
(a) Elocution
(b) Incubation
(c) Abdication
(d) Obrution

Q76. Select the word from the options which is similar in meaning to the bracketed word given in the sentence below.
They are institutions built to hold and (continue) power for a political group.
(a) abandon
(b) waste
(c) maintain
(d) release

Q77. Select the most appropriate option to fill in the blank.
The _____ term "wasteland" is proposed to be replaced by the term "urban commons."
(a) derogatory
(b) lucrative
(c) imperative
(d) indicative

Q78. Select the word from the options which is exactly opposite in meaning to the bracketed word given in the sentence below.
The Prime Minister is making no (rash) promises.
(a) Considerate
(b) Immature
(c) Audacious
(d) Bold

Q79. Select the most appropriate synonym of the given word.
Liberty
(a) Statue
(b) Freedom
(c) Dependence
(d) Acclamation

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Q80. Four sentences are given, out of which three have spelling errors. Choose the sentence with all correctly spelt words.

(a) Thousands protested the election fraud.
(b) The teacher told him to watch his grammer.
(c) My friend happend by around dinnertime.
(d) That was an impressive and an irresistable necklace.

Q81. 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'.

The ban has landed the circus managements in a tricky (situation as they can neither use them for the shows or) abandon them.

(a) situation as they can neither use them for the shows nor
(b) situation as they cannot either use them for the shows nor
(c) No substitution required
(d) situation as them can either use them for the shows or

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

Some were very shaky and unstable, others were _____, and a few were both!

(a) voluted
(b) diluted
(c) convoluted
(d) involuted

Q83. The statement below has been given with bracketed text. Select the option with correct idiom for the bracketed text.

They were really (selecting from the last or worst of the resources left) when they picked you.

(a) scraping the bottom of the barrel
(b) rolling the stones
(c) pulling up snakes
(d) going haywire

Q84. Select the most appropriate word for the given group of words.

License granted to an individual or group to market a company's goods or services in a particular territory

(a) Branding
(b) Marketing
(c) Monopoly
(d) Franchise

Q85. Select the most appropriate option to fill in the blank.

A loud thud woke up everybody and nobody knew what all the _____ was about.

(a) exoneration
(b) commotion
(c) abomination
(d) culmination

Directions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The term Democracy (1)_____ from the Greek (2)__ dèmos (people) and Kratos (power). In its (3)_ meaning, democracy means the "rule of the people". In fact it is a form of government in which all eligible people have an (4)___ say in the decisions that affect their lives. Democracy (5)_____ a political systems existed in some Greek city-states, notably Athens following a popular uprising in 508 BC.

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

(a) came
(b) will come
(c) is coming
(d) comes

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

(a) letters
(b) symbols
(c) numbers
(d) words

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

(a) metaphorical
(b) hyperbole
(c) figurative
(d) literal

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

(a) irregular
(b) unequal
(c) equal
(d) unfair

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

(a) as
(b) of
(c) over
(d) in

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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