SSC MTS Previous Year Paper (Held on: 14 July 2022 Shift 1)

SSC Multi-Tasking Staff (MTS) • 2022 • 100 questions • 90 minutes • Answer key

Take this paper as a timed mock test

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

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Scan the QR code or click the link to open it.

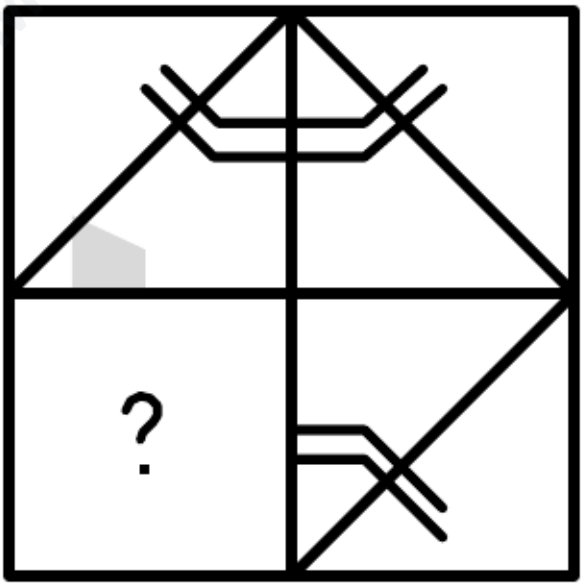
GENERAL INTELLIGENCE & REASONING

Q1. What will be the value of the following expression, if '×' and '-' are interchanged and '+' and '÷' are interchanged?

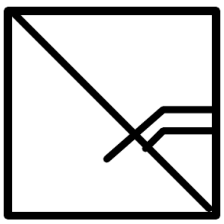
200 ÷ 100 × 300 ÷ 200 + 10 - 2 × 40 = ?

(a) 200
(b) 2
(c) 40
(d) 0

Q2. Select the figure from the options that can replace the question mark (?) and complete the given pattern. (Rotation is now allowed)

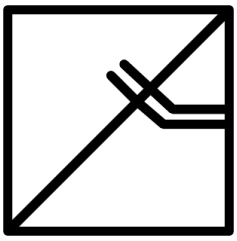


(a)

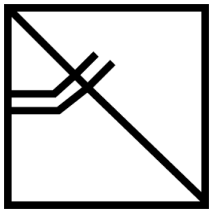


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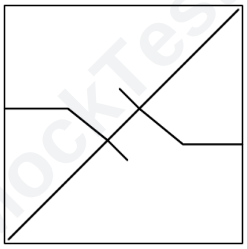
(b)



(c)



(d)



Q3. Which two numbers need to be interchanged to make the following equation correct?

27 - 8 × 4 - 3 ÷ 2 = 1

(a) 2 and 8
(b) 2 and 3
(c) 3 and 4
(d) 8 and 4

Q4. In a certain code language, ‘heart black blue’ is written as ‘8 # ab’, ‘grey are blue’ is written as ‘# pr kt’. How will ‘blue’ be written in that language?

(a) ab
(b) pr
(c) #
(d) 8

Q5. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.

TACKLE : TCCMLG :: JACKET : JCCMEV :: NEPTUNE : ?

(a) PEPTVOE
(b) PERTWNG
(c) NFGPVUP
(d) NGPVUPE

Q6. Select the option in which the numbers are related in the same way as are the numbers in the given set.

(7, 49, 343)

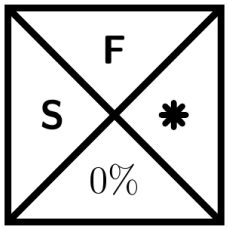
(a) (5, 25, 625)
(b) (11, 121, 1321)
(c) (13, 169, 2197)
(d) (3, 9, 29)

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Q7. Select the figure from among the given options that can replace the question mark (?) in the following series.



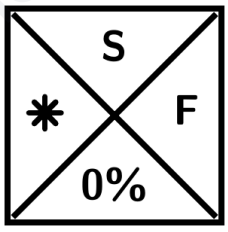
(a)



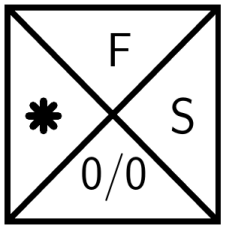
(b)



(c)



(d)

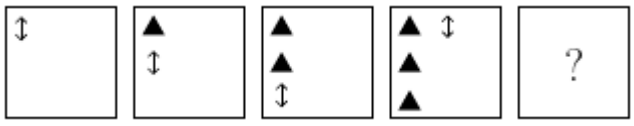


Q8. Select the option that is related to the fifth word in the same way as the second word is related to the first word and the fourth word is related to the third word.

Virat Kohli : Cricket :: Saina Nehwal : Badminton :: Viswanathan Anand : ?

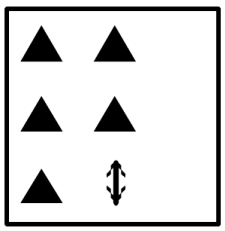
(a) Basketball
(b) Chess
(c) Tennis
(d) Football

Q9. Select the figure from among the given options that can replace the question mark (?) in the following series.

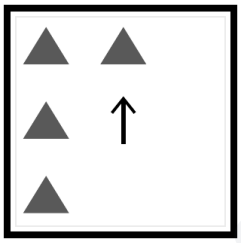


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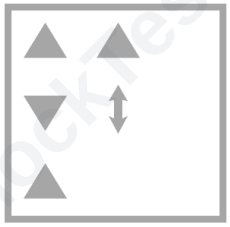
(a)



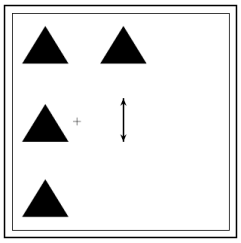
(b)



(c)



(d)



Q10. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

LOB : DQN :: HER : ?

(a) TGK
(b) TGJ
(c) JGU
(d) JGT

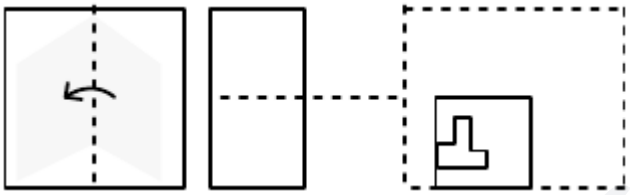
Q11. Select the number from among the given options that can replace the question mark (?) in the following series.

524, 533, 544, 557, ?

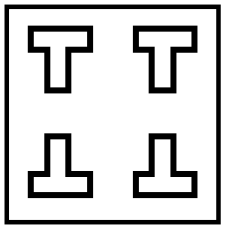
(a) 574
(b) 568
(c) 572
(d) 564

Q12. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?

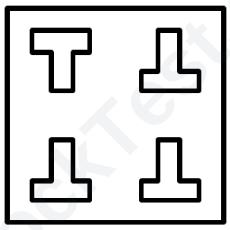
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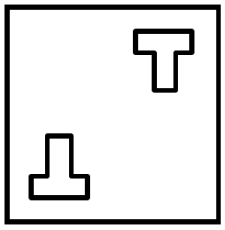
(a)



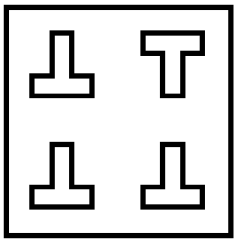
(b)



(c)



(d)



Q13. The marks of seven students A, B, C, D, E, F and G in a test were given as follows: A's score was exactly between E's and F's scores. B's score was more than only G's score. C's score was immediately more than B's score. F's score was more than E's score and F did not score the highest.

Who scored the highest marks in the test?

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

Q14. In a certain code language, 'GRSTB' is written as 'GYXWL', and 'HANDS' is written as "XISFM'. How will 'MNDET' be written in that language?

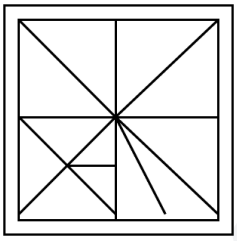
(a) YJITS
(b) YJIRS
(c) JIISR
(d) YJISR

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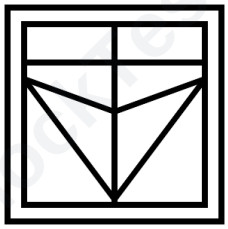
Q15. Select the option in which the given figure is embedded. (Rotation is not allowed)



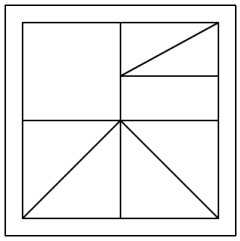
(a)



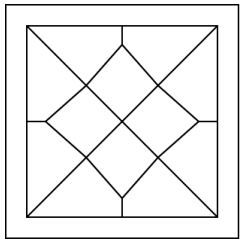
(b)



(c)



(d)



Q16. In a certain code language, 'GEFS' is written as 'HFER' and 'IBIS' is written as 'JCHR'.

How will 'STIR' be written in that language?

(a) RSHQ
(b) TUJS
(c) RUHS
(d) TUHQ

Q17. 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:

I. Some M are Q.

II. All V are Q.

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Conclusions:

I. Some Q are M.

II. No M is V.

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

Q18. 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 hexagons are pentagons.

All pentagons are octagons.

All octagons are decagons.

Conclusions:

I. All decagons are hexagons.

II. All hexagons are octagons.

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

Q19. Select the number from among the given options that can replace the question mark (?) in the following series.

28, 27, 31, 22, 38, 13, 49, ?

(a) 42
(b) 2
(c) 0
(d) 22

Q20. In a certain code language, ‘ACQUIRE’ is written as 'QCAUERI', 'ADDRESS' is written as 'DDARSSE’, and ‘ABILITY’ is written as 'IBALYTI'. How will ICEBERG’ be written in that language?

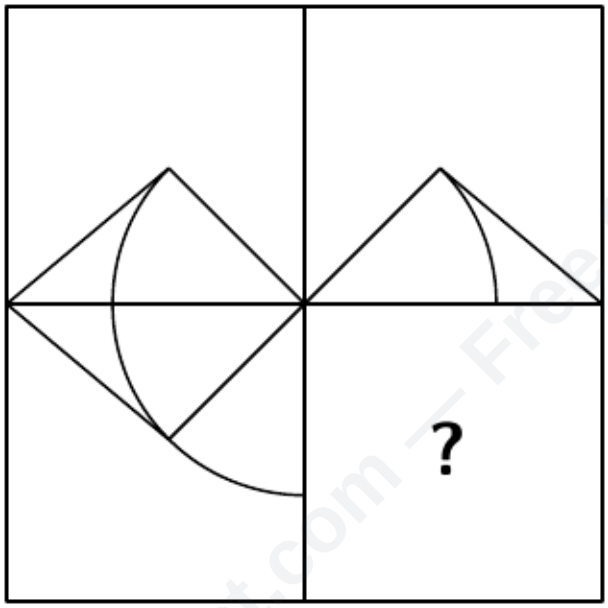
(a) GREBECI
(b) GREBICE
(c) ECIBGRE
(d) ICEBGRE

Q21. Five friends N, M, O, P and Q are sitting in a column facing east (but not necessarily in the same order). O is sitting to the leftmost side. N is the immediate neighbour of M and Q. P is not sitting on any of the end seats. Who is the immediate neighbour of O?

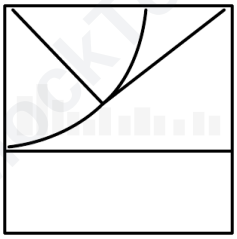
(a) M
(b) Q
(c) P
(d) N

Q22. Select the figure from the options that can replace the question mark (?) and complete the pattern.

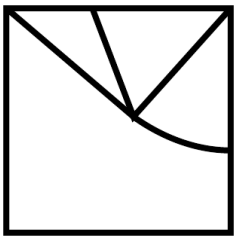
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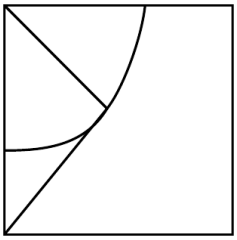
(a)



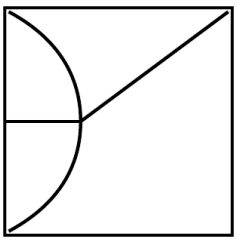
(b)



(c)



(d)



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Q23. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

AEI, EIO, IOU, ?

(a) UAE
(b) AEI
(c) OUA
(d) AII

Q24. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

3 : 72 :: 21 : 504 :: 36 : ?

(a) 480
(b) 864
(c) 632
(d) 376

Q25. Seven boys B1, B2, B3, B4, B5, B6 and B7 are sitting around a circular table facing towards the centre (not necessarily in the same order). B1 is third to the left of B7. B4 is to immediate left of B1. B2 is second to the left of B6. B6 is not an immediate neighbour of B5.

Who are the immediate neighbours of B3?

(a) B5 and B4
(b) B6 and B7
(c) B1 and B2
(d) B4 and B6

NUMERICAL APTITUDE

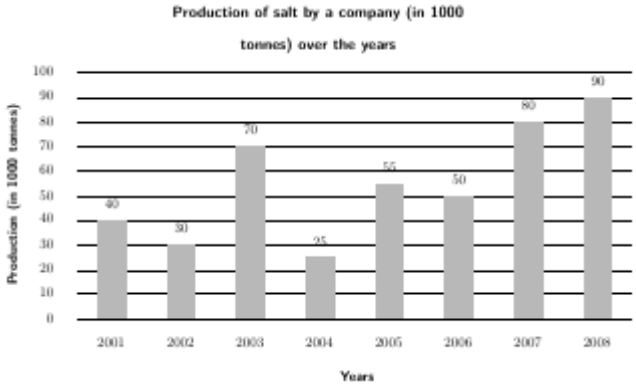
Q26. A shopkeeper sells an item at a loss of 8%. However, if he increases the selling price by Rs. 36, he could gain 12%. Find the cost price of the article (in Rs.).

(a) 180
(b) 270
(c) 150
(d) 360

Q27. What is the average of the squares of the first five natural numbers?

(a) 11.5
(b) 10
(c) 12.5
(d) 11

Q28. The given bar graph given below provides information about the quantity of salt produced by a company in 8 consecutive years. Study the information provided in the bar graph and answer the question that follows.



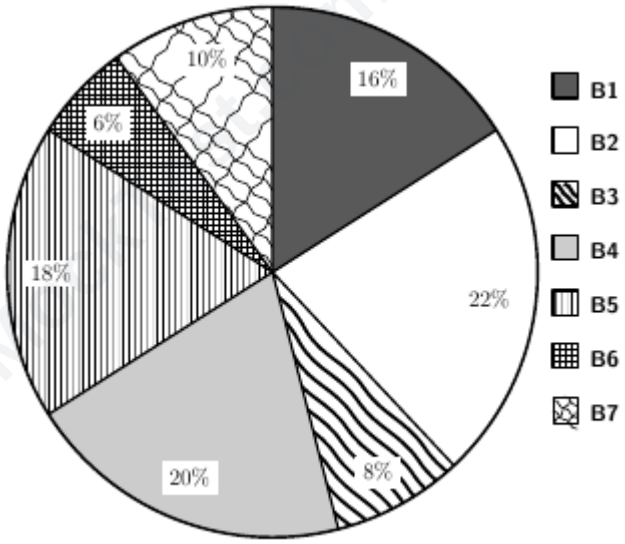
The average production of salt in 2001 and 2003 was exactly equal to the average production of salt in which of the following pairs of years?

(a) 2006 and 2007
(b) 2001 and 2005
(c) 2002 and 2007
(d) 2005 and 2006

Q29. The perimeter of a rectangle is 68 cm. If the area of the rectangle is 240 cm², then what is the length of each of its diagonals?

(a) 25 cm
(b) 27 cm
(c) 26 cm
(d) 28 cm

Q30. The pie chart given below shows the number of laptops sold of each of 7 different brands in a year as percentages of the total number of laptops sold of all these 7 brands taken together in that year.



What is the difference between the measures of the central angles made by sector B2 and sector B5?

(a) 16.66°
(b) 21.6°
(c) 14.4°
(d) 7.2°

Q31. Find a single discount equivalent to two successive discounts of 12% and 8%.

(a) 18.8%
(b) 19.04%
(c) 19.4%
(d) 19.8%

Q32. The present ages of A and B are in the ratio 3 : 5. If A's present age is 33 years, then what will be B's age (in years) after 5 years?

(a) 65
(b) 60
(c) 50
(d) 55

Q33. If A = 3 + 7 × 2, B = 12 ÷ 4 - 6, and C = 6 × 5 + 2, then what is the value of A × B + C?

(a) -22
(b) -19
(c) -25
(d) -26

Q34. Rohit scored at an average of 58 in his last five innings. Rohit scored 42, 56, 72 and 40 in the last four innings. How many runs did Rohit score in the first of these five innings?

(a) 80
(b) 60
(c) 90
(d) 40

Q35. Sashi took a loan of Rs. 700 on simple interest for as many years as the rate of interest per annum. If he paid Rs. 343 as interest at the end of the loan period, what was the rate of interest?

(a) 6%
(b) 4%
(c) 10%
(d) 7%

Q36. The cost prices of a pen and a notebook are Rs. 600 and Rs. 4,000, respectively. If the pen and the notebook are sold at losses of 20% and 32%, respectively, what will be the approximate percentage of total loss incurred through the two sales made?

(a) 21.40%
(b) 26.08%
(c) 30.43%
(d) 28.42

Q37. Find the total cost of painting the outside of a closed cuboidal box, which is 7 m long, 5 m wide and 2 m high, at the rate of Rs. 2.4 per m^2.

(a) Rs. 296.30
(b) Rs. 263.40
(c) Rs. 283.20
(d) Rs. 251.20

Q38. Zee and Gee can complete a task together in 24 days. If the efficiencies of Zee and Gee are in the ratio 3 : 8, respectively, then in how many days can Gee complete the task alone?

(a) 33 days
(b) 55 days
(c) 88 days
(d) 44 days

Q39. Ravi's monthly salary is Rs. 16,000. He spends 30% of his salary on rent, 20% of his salary on education. 60% of the remaining amount is invested in mutual funds. Find the amount invested in mutual funds in a month.

(a) Rs. 5,000
(b) Rs. 4,800
(c) Rs. 4,200
(d) Rs. 4,500

Q40. The ratio of the LCM of two numbers to the sum of the same two numbers is 12 : 7. If their HCF is 4, what is the product of these two numbers?

(a) 192
(b) 172
(c) 196
(d) 169

Q41. The price of a cap is increased by 15%. If this results in a Rs. 27 increase in the price of the cap, then what is the increased price of the cap?

(a) Rs. 170
(b) Rs. 197
(c) Rs. 207
(d) Rs. 180

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Q42. Study the given table and answer the question that follows.

The table shows the amount earned (in Rs. '000) by five different movies across all screens a movie was played.

Movies	The amount collected per movie (in Rs. '000)
M1	450
M2	370
M3	510
M4	640
M5	830

All the movies were displayed on 50 screens each. What is the average amount earned per movie, per screen, all movies and all screens are taken together?

(a) Rs. 14,200
(b) Rs. 11,200
(c) Rs. 12,600
(d) Rs. 13,400

Q43. X alone can complete a piece of work in 16 days, while Y alone can complete the same work in 24 days. They work on alternate days starting with Y. In how many days will 50% of the total work be completed?

(a) 8 days
(b) 29/3 days
(c) 32/3 days
(d) 9 days

Q44. The average of all the numbers between 14 and 61 which are divisible by 5 is:

(a) 37.5
(b) 38
(c) 40
(d) 44

Q45. Five years from now, the ratio of the ages of A, B and C will be 3 : 5 : 2. The sum of the squares of their present ages is 525. What is the present age of B?

(a) 10 years
(b) 15 years
(c) 25 years
(d) 20 years

Q46. What should come in place of the question mark (?) in the following mathematical statement?

$\sqrt{(19\times650\div13+18.5\times4)}\times13=?$

(a) 416
(b) 418
(c) 413
(d) 415

Q47. A train goes from P to Q at a speed of 20 km/h. Then it goes from Q to R at a speed of q km/h. Finally the train goes from R to S at a speed of r km/h. The distances from P to Q, Q to R and R to S are equal. If the average speed from P to R is 280/11 km/h, and the average speed from Q to S is 112/3 km/h, then what is the value of r ?

(a) 40
(b) 37.5
(c) 42.5
(d) 45

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Q48. The length of each side of a cube is 4 cm. What is the volume of the cube?

(a) 128 cm^3
(b) 48 cm^3
(c) 64 cm^3
(d) 32 cm^3

Q49. The amount received after 8 years on a certain sum of money invested at the rate of 18% simple interest per annum is Rs. 1,220. What was the initial sum invested?

(a) Rs. 500
(b) Rs. 480
(c) Rs. 420
(d) Rs. 450

Q50. Piu and Titu start from the same place at the same time and walk in opposite directions. If Piu walks at 5 km/h and Titu walks at 2 km/h, after what time will they be 10.5 km apart?

(a) 3.5 hours
(b) 1.5 hours
(c) 2.5 hours
(d) 2 hours

GENERAL ENGLISH

Q51. Select the most appropriate synonym of the given word.

Bulky

(a) Airy
(b) Soft
(c) Massive
(d) Scanty

Q52. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

Hardly had he disappeared that his mother clomped down the steps, looking for him.

(a) Hardly did he disappeared that his mother
(b) Hardly had he disappear that his mother
(c) No improvement required
(d) Hardly had he disappeared when his mother

Q53. Select the most appropriate option to fill in the blank.

My friend is not _____ for this complicated assignment.

(a) worthy
(b) comfortable
(c) suitable
(d) entitled

Q54. Select the most appropriate option to fill in the blank.

But if you _____ to spare before you do catch the bus, be sure to pop in.

(a) have a meeting
(b) have a moment
(c) have a nap
(d) have a ride

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Q55. Select the option that will improve the underlined part of the given sentence.In case no improvement is needed, select 'No improvement required'.

Michael nodded and begun writing at his pad.

(a) begun to write in
(b) begin writing in
(c) began writing on
(d) No improvement required

Q56. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Just try and recall the poor people you saw on the streets, on local trains, and in slums on our way back.

(a) have been seen on the
(b) seen on the
(c) have seeing on the
(d) No substitution required

Q57. Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement required'.

An unidentified man on an bike dropped for the box outside the building.

(a) a bike dropped off
(b) a bike dropping for
(c) a bike drop for
(d) No improvement required

Q58. Select the most appropriate synonym of the given word.

Maestro

(a) Genius
(b) Senile
(c) Slender
(d) Novice

Q59. 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.

My mother exclaimed / at how fast / the days had pass.

(a) at how fast
(b) No error
(c) My mother exclaimed
(d) the days had pass

Q60. Select the most appropriate meaning of the given idiom.

To raise a dust

(a) To meet one's defeat
(b) To be satisfied with what you have achieved
(c) To be secretly or inwardly amused
(d) To cause disruption or confusion

Q61. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

She had no sooner taken a few steps forward that she suddenly recoiled.

(a) No sooner had she taken a few steps forward than
(b) She did no sooner taken a few steps forward than
(c) No improvement required
(d) She did no sooner took a few steps forward than

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Q62. Select the most appropriate option to fill in the blank.

One day, the queen was painting when a messenger entered _____ to convey the king's arrival.

(a) comparably
(b) relatively
(c) enjoyably
(d) breathlessly

Q63. Parts of the following sentence have been given as options. 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.

Hundreds of migrants work in private firms in Erode.

(a) firms in Erode
(b) No error
(c) Hundreds of migrants
(d) work in private

Q64. Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement required'.

Can all us sleep in the same room, Mother?

(a) May all we
(b) Can we all
(c) Should us all
(d) No improvement required

Q65. Parts of the given sentence have been given as options. 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.

Neither she not I am going to take part in the debate competition.

(a) am going to take part
(b) No error
(c) Neither she not I
(d) in the debate competition

Q66. Select the correctly spelt word.

(a) Hieght
(b) Beleive
(c) Fiery
(d) Foriegn

Q67. Select the INCORRECTLY spelt word.

(a) Strangled
(b) Dominion
(c) Solitory
(d) Persecution

Q68. Select the most appropriate option to fill in the blank.

You really need to exercise daily, if you want to live a long and _____ life.

(a) marginal
(b) shrieking
(c) wealthy
(d) healthy

Q69. Select the most appropriate meaning of the underlined idiom in the given sentence.

That lady must have an axe to grind that's why she is not reporting your crime.

(a) To have a tedious job
(b) To have a crucial information

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(c) To delay one's actions
(d) To have an ulterior motive

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

Unfeigned

(a) Sincere
(b) Genuine
(c) Pretended
(d) Expressive

Directions

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

When he died on 27 November 1953, Gladstone O'Neill was (1) ____ recognized as one of the major dramatists of the modern world. Four times a Pulitzer Prize-winner, he had also been (2) __ the 1936 Nobel Prize for Literature. His plays have been translated into most major languages and read by more people than those of (3) __ other playwrights except W Shakespeare and maybe G Bernard Shaw. O'Neill was a puzzle to his friends - a genuinely shy, brooding, complicated man with whom (4) __ alternated with touching kindness. He was both, naive and worldly. One biographer found him "sentimental one instant, hard as nails the next." His widow, after 26 years with O'Neill, said, "To (5) ____ his work you must understand the man, for the work and the man are one."

Q71. Select the most appropriate option to fill in blank number 1.

(a) manically
(b) universally
(c) specifically
(d) casually

Q72. Select the most appropriate option to fill in blank number 2.

(a) rewarded
(b) awarded
(c) unaided
(d) crowded

Q73. Select the most appropriate option to fill in blank number 3.

(a) none
(b) few
(c) any
(d) some

Q74. Select the most appropriate option to fill in blank number 4.

(a) failure
(b) success
(c) benefit
(d) cruelty

Q75. Select the most appropriate option to fill in blank number 5.

(a) prepare
(b) produce
(c) understand
(d) demonstrate

GENERAL AWARENESS

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Q76. Which part of the Constitution of India talks about the Directive Principles of State Policy?

(a) Part IV
(b) Part V
(c) Part III
(d) Part II

Q77. Who among the following was a famous Indian playback singer and an actor too?

(a) Kashinath Ghanekar
(b) Kishore Kumar
(c) Pranab Mukherjee
(d) Sunil Chhetri

Q78. The Purple Revolution, which was launched in Jammu and Kashmir, is also known as _____.

(a) Lavender Revolution
(b) Indigo Revolution
(c) Orchids Revolution
(d) Lilac Revolution

Q79. Who among the following founded Brahmo Samaj in Calcutta (Kolkata)?

(a) Swami Vivekanand
(b) Swami Dayanand Saraswati
(c) Ishwar Chandra Vidyasagar
(d) Raja Ram Mohan Roy

Q80. Which of the following is NOT a cause of rural poverty in India?

(a) Migration from rural areas
(b) Lack of alternate employment opportunities other than agriculture
(c) Illiteracy
(d) Lack of capital

Q81. Who is the Chairman of Financial Stability and Development Council (FSDC) of India?

(a) Finance Minister
(b) Human Resource Development Minister
(c) Home Minister
(d) Skill Development Minister

Q82. The Great Indian Novel is written by the famous politician _____.

(a) Neither I nor II
(b) Derek O'Brien
(c) AK Antony
(d) Shashi Tharoor

Q83. Which of the given statements related to the temples of India is correct?

I. The Nagara style of architecture is also known as the North Indian style
II. The Dravidian style of architecture is also known as the South Indian style.

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

Q84. The uplifted blocks of block mountains are called_____.

(a) horsts
(b) grabens
(c) slopes
(d) cones

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Q85. Dantidurga belonged to which dynasty of India?

(a) Chalukya
(b) Chola
(c) Rashtrakuta
(d) Chera

Q86. Bagurumba is a folk dance of which Indian state?

(a) Haryana
(b) Karnataka
(c) Assam
(d) Goa

Q87. The number of persons per unit area gives the measurement of _____.

(a) population density
(b) population sex ratio
(c) population movements
(d) population growth rate

Q88. 'Ambubachi' festival of Assam is celebrated in the month of _____ every year.

(a) March
(b) December
(c) January
(d) June

Q89. Harshavardhana (r. 606-647 CE) was a ruler of _____ dynasty.

(a) Mughal
(b) Maurya
(c) Gupta
(d) Pushyabhuti

Q90. All India Muslim League was formed in _____.

(a) 1906
(b) 1910
(c) 1905
(d) 1908

Q91. All the changes in the weather are driven by the _____.

(a) moon
(b) sun
(c) stars
(d) Jovian planets

Q92. The HVJ gas pipeline from Hazira in Gujarat to Jagdishpur in Uttar Pradesh passes through which state?

(a) Jharkhand
(b) Madhya Pradesh
(c) Himachal Pradesh
(d) Uttarakhand

Q93. Tapeworm belongs to which group of the animal kingdom?

(a) Annelida
(b) Platyhelminthes
(c) Porifera
(d) Coelenterata

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Q94. Which of the following is an Indian game of snake boat race?

(a) Kho-Kho
(b) Vallam kali
(c) Mallakhamb
(d) Field hockey

Q95. The judiciary has the power to strike down particular laws passed by the Parliament if it believes that these are a violation of the basic structure of the Constitution. This is called _____.

(a) Judicial review
(b) dispute resolution
(c) judicial activism
(d) public interest litigation

Q96. Who among the following won a silver medal in the Summer Olympics 2020 (played in 2021)?

(a) Ravi Kumar Dahiya
(b) Bajrang Punia
(c) Lovlina Borgohain
(d) PV Sindhu

Q97. Who became the new Chief Minister of Punjab in March 2022?

(a) Navjot Singh Sidhu
(b) Amarinder Singh
(c) Bhagwant Mann
(d) Arvind Kejriwal

Q98. Which of the following gases shields the surface of earth from ultraviolet (UV) radiation from the sun?

(a) Carbon monoxide
(b) Ozone
(c) Oxygen
(d) Carbon dioxide

Q99. Which of the following is an example of contact force?

(a) Electrostatic force
(b) Muscular force
(c) Gravitational force
(d) Magnetic force

Q100. Kalamandalam Kalyanikutty Amma is known for which classical dance form?

(a) Manipuri
(b) Kuchipudi
(c) Odissi
(d) Mohiniyattam

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

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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
91	a	92	a	93	a	94	a	95	a	96	a	97	a	98	a	99	a	100	a

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