SSC MTS Previous Year Paper (Held on: 7 July 2022 Shift 3)

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. If ‘A’ means ‘+’, ‘B’ means ‘–’, ‘C’ means ‘×’, and ‘D’ means ‘÷’, what will come in place of the question mark (?) in the following equation?

44 A 36 B 60 D 30 C 5 = ?

(a) 60
(b) 50
(c) 40
(d) 70

Q2. Select the number from among the given options that can replace the question mark (?) in the following series.

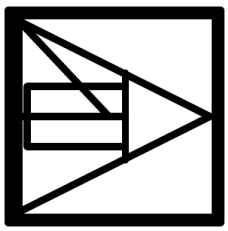
834, 836, 844, 876, 1004, ?

(a) 1524
(b) 1520
(c) 1518
(d) 1516

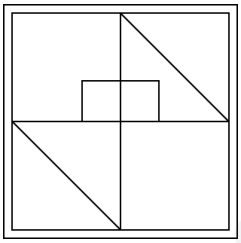
Q3. Select the option in which the given figure is embedded (Rotation is not allowed).



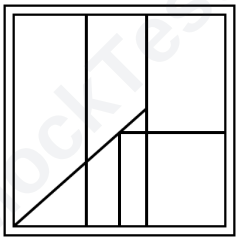
(a)



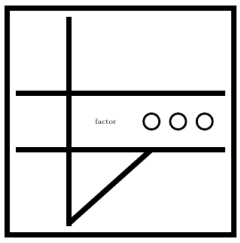
(b)



(c)



(d)



Q4. Select the option that is related to the fourth number in the same way as the first number is related to the second number and the fifth number is related to the sixth number.

4284 : 18 :: ? : 16 :: 1482 : 15

(a) 3854
(b) 2854
(c) 1486
(d) 3256

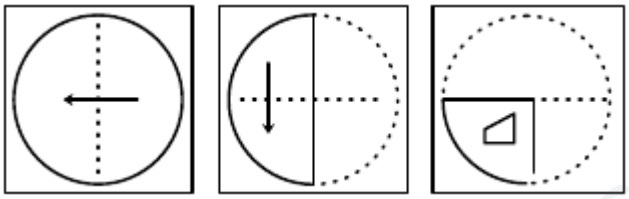
Q5. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

UY, ZD, EI, JN, ?

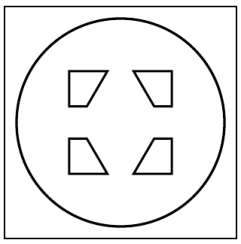
(a) PS
(b) OS
(c) OT
(d) OR

Q6. 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?

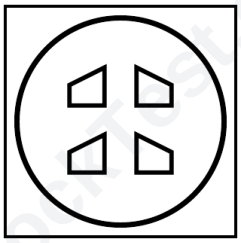
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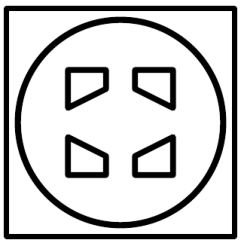
(a)



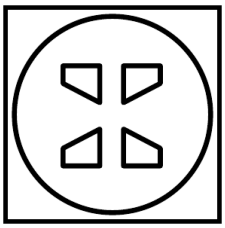
(b)



(c)



(d)



Q7. Select the number that can replace the question mark (?) in the following series.

3, 15, 75, 375, ?

(a) 1375
(b) 1675
(c) 1875
(d) 2075

Q8. In a certain code language, ‘calculator are numbers’ is coded as ‘8 # pg’, ‘numbers being odd even’ is coded as ‘# rm ts kp’, and ‘odd are strong’ is coded as ‘kp 8 ab’. What can be the code for ‘calculator odd’ in that language?

(a) pg kp
(b) pg 8
(c) ts #
(d) rm ts

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Q9. 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.

DOW : WDO:: RAM:?

(a) RMA
(b) MAR
(c) ARM
(d) MRA

Q10. Seven boys M, K, C, P, S, T and U participate in a contest. All of them finish on different ranks from 1 to 7, 1 being the highest and 7 being the lowest. The rank of S is lower than K, but higher than C. The rank of T is one below U and one above P. U has the second highest rank. The rank of S is less than only four boys. C has the least rank. Whose rank is the third from the last?

(a) P
(b) K
(c) S
(d) T

Q11. 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.

Asthma : Lungs :: Arthritis : Bones :: Conjunctivitis : ?

(a) Eyes
(b) Heart
(c) Skin
(d) Brain

Q12. Five people M1, M2, M3, M4 and M5 are sitting around a circular table facing the centre (but not necessarily in the same order). Only one person is sitting between M3 and M4. M2 is sitting second to the left of M4. M1 is sitting to the immediate right of M2.

How many people are sitting between M2 and M1, when counted from the left of M2?

(a) 3
(b) 2
(c) 0
(d) 1

Q13. In a certain code language, 'GRAPES' is written as 'HQBOFR', and 'FACTOR' is written as ‘GZDSPQ’. How will 'LAYOUT' be written in that code language?

(a) MZZNVS
(b) KZXNTS
(c) MBZPVU
(d) SNLAJS

Q14. 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. All W are B.

II. No X is W.

Conclusions:

I. Some B are W.

II. Some W are X.

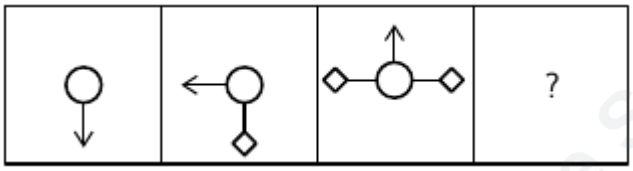
III. All X are B.

(a) Only conclusion III follows
(b) Only conclusion II follows
(c) Only conclusion I follows

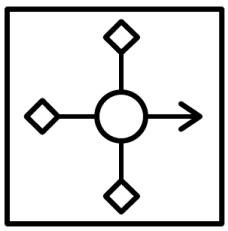
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(d) All the conclusions follow

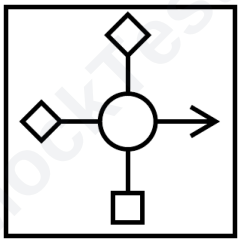
Q15. Select the figure from among the given options that can replace the question mark (?) in the following series.



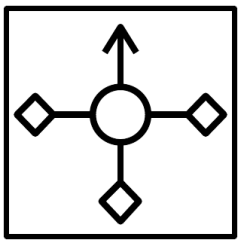
(a)



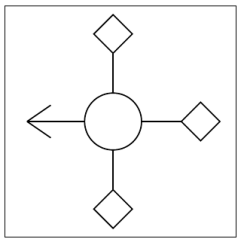
(b)



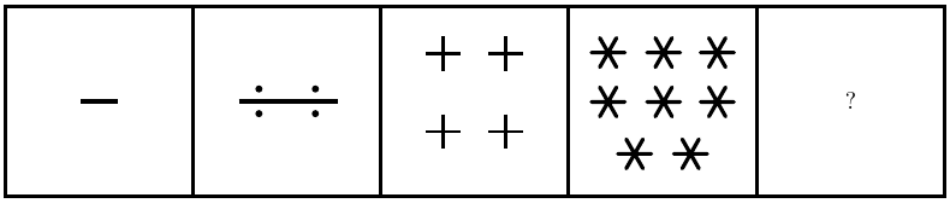
(c)



(d)

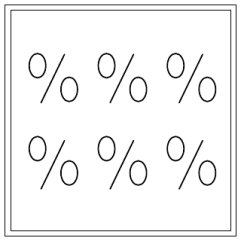


Q16. Select the figure from the given options that can replace the question mark (?) in the following series.

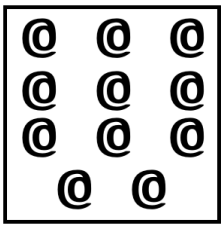


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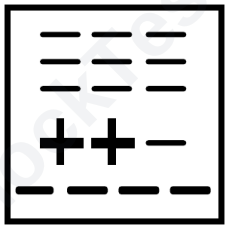
(a)



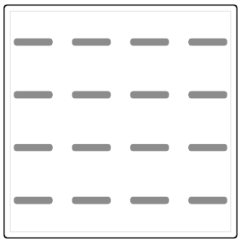
(b)



(c)



(d)



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. All T are F.

II. Some P are T.

Conclusions:

I. No F is P.

II. Some F are P is a possibility.

(a) Both conclusions I and II follow

(b) Only conclusion II follows

(c) Neither conclusion I nor II follows

(d) Only conclusion I follows

Q18. Seven men M1, M2, M3, M4, M5, M6 and M7 are sitting around a circular table, facing towards the centre (not necessarily in the same order). M5 is the immediate neighbour of both M1 and M4. M6 is to the immediate right of M1. M7 is not the immediate neighbour of M6 or M3. Who is second to the right of M7?

(a) M5

(b) M1

(c) M3

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(d) M2

Q19. In a certain code language, 'SOBER' is written as 'TQEIW', 'MACHO' is written as 'NCFLT', and 'MAGIC' is written as 'NCJMH'. How will 'ALTAR' be written in that language?

(a) BNWBW
(b) BWNEW
(c) BMUBS
(d) BNWEW

Q20. Which two number should be interchanged to make the following equation correct?

72 ÷ 9 × 8 + 6 – 5 = 100

(a) 9 and 6
(b) 9 and 8
(c) 6 and 8
(d) 9 and 5

Q21. In a certain code language, 'PINKYS' is written as 'OJMLXT' and 'TORQUE' is written as 'SPQRTF'. How will 'GAMPST' be written in that code language?

(a) FBLRQU
(b) FBLQRU
(c) FBLQRV
(d) FBLRRU

Q22. 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.

KRY : NWR :: PBX : ?

(a) RHQ
(b) SHQ
(c) RGQ
(d) SGQ

Q23. Select the option in which the numbers are related in the same way as are the numbers in the given sets.

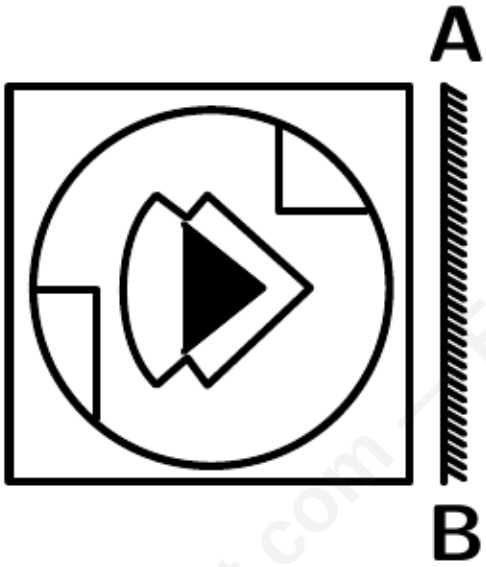
(4, 9, 16)

(81, 100, 121)

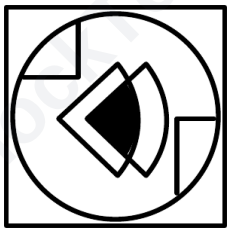
(a) (16, 36, 25)
(b) (25, 49, 81)
(c) (9, 16, 36)
(d) (36, 49, 64)

Q24. Select the correct mirror image of the given figure when the mirror is placed at the right side.

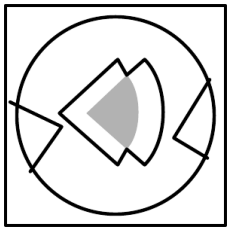
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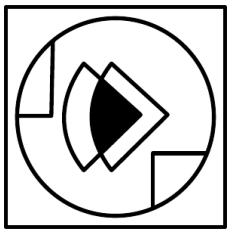
(a)



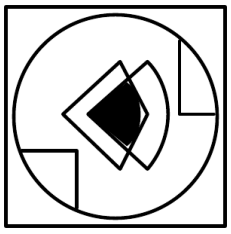
(b)



(c)

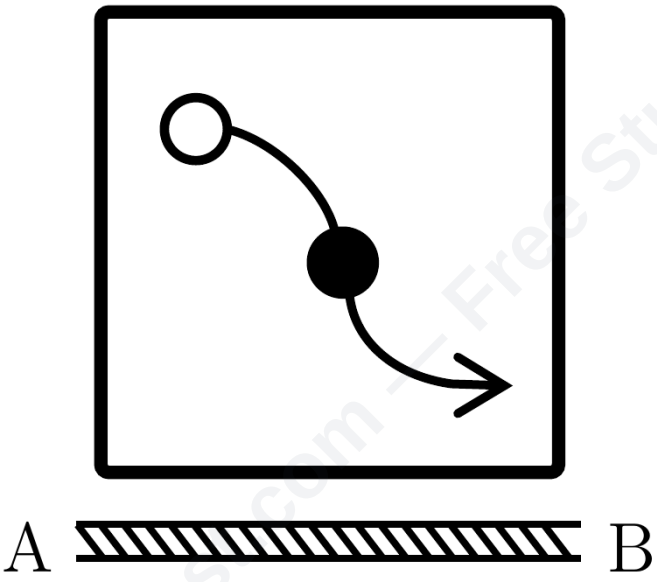


(d)

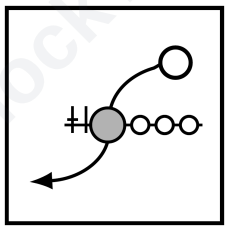


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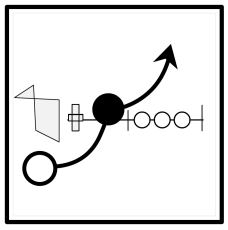
Q25. Select the correct mirror image of the given figure when the mirror is placed at line AB as shown.



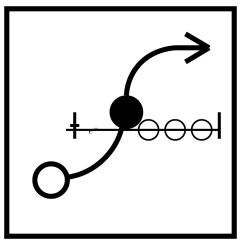
(a)



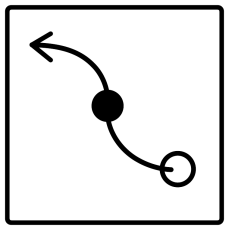
(b)



(c)



(d)



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NUMERICAL APTITUDE

Q26. If A/2 = B/3 = C/7, then what is the value of the ratio (4A + 3B - C) : (A + B + C)?

(a) 7 : 6
(b) 5 : 6
(c) 9 : 8
(d) 8 : 5

Q27. What is the compound interest for 2 years on a sum of Rs. 7,200 at the rate of 15% per annum, if interest is compounded annually?

(a) Rs. 2,428
(b) Rs. 2,322
(c) Rs. 2,527
(d) Rs. 2,829

Q28. The highest common factor of two numbers is 6, and the product of the two numbers is 72. What is the least common multiple of the two numbers?

(a) 16
(b) 18
(c) 12
(d) 14

Q29. The measures of the outer dimensions of a closed metal box are given as 15 cm × 18 cm × 8 cm. The thickness of the metal is 1.5 cm. What will be the volume of the metal required to make the box?

(a) 1680 cm^3
(b) 950 cm^3
(c) 1440 cm^3
(d) 1260 cm^3

Q30. The average of 5 consecutive odd numbers is 33. What is the product of the smallest and the largest of these five numbers?

(a) 1147
(b) 1237
(c) 957
(d) 1073

Q31. What is the average of the first 6 multiples of 10?

(a) 36
(b) 35
(c) 34.5
(d) 32

Q32. If a chair is sold at a discount of 20%, then there is a profit of 20%. If the chair is sold at a discount of 30%, then what will be the profit?

(a) 5%
(b) 10%
(c) 7.5%
(d) 12.5%

Q33. The length of a side of an equilateral triangle is 120 cm less than its perimeter. What is the area of the equilateral triangle?

(a) 1800 √3 cm^2
(b) 900 √3 cm^2
(c) 450 √3 cm^2
(d) 1200 √3 cm^2

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Q34. If a boy goes from his home to his school at a speed of 40 km/h, he reaches 10 minutes early. If he goes at a speed of 35 km/h, he reaches 5 minutes late. What will be the time taken for the journey at a speed of 35 km/h?

(a) 125 minutes
(b) 135 minutes
(c) 115 minutes
(d) 120 minutes

Q35. What should come in place of the question mark (?) in the following mathematical statement?

25% of $(?)^2 = 7 + 145 \div 5$

(a) 27
(b) 37
(c) 12
(d) 62

Q36. The ratio of the cost price of an item and the profit gained while selling the item is 4 : 1. What is the profit percentage?

(a) 20%
(b) 25%
(c) 15%
(d) 18%

Q37. N is increased successively by 12.5% and 16%. If N = 400, then what is the value of the increase?

(a) 142
(b) 92
(c) 172
(d) 122

Q38. The following table shows the weight (in kg) of vegetables sold by 6 different shops. It also shows the weight (in kg) of tomatoes sold out of the total vegetables sold by each of these shops.

Shops	Vegetables (in kg)	Tomatoes (in kg)
S1	5000	1200
S2	6000	1000
S3	4800	800
S4	6400	1400
S5	5600	1800
S6	6800	2000

Taking shops S1, S2 and S5 together, approximately what percentage of all vegetables sold, from these three shops taken together, are tomatoes?

(a) 19.11%
(b) 21.28%
(c) 24.10%
(d) 25.89%

Q39. Pipe A can fill an empty tank in 10 h, Pipe B can fill the same tank, when empty, in 15 h, and Pipe C can empty the same tank, when completely full, in 12 h. Find the time taken to fill half the tank if all three pipes are opened simultaneously when the tank is empty.

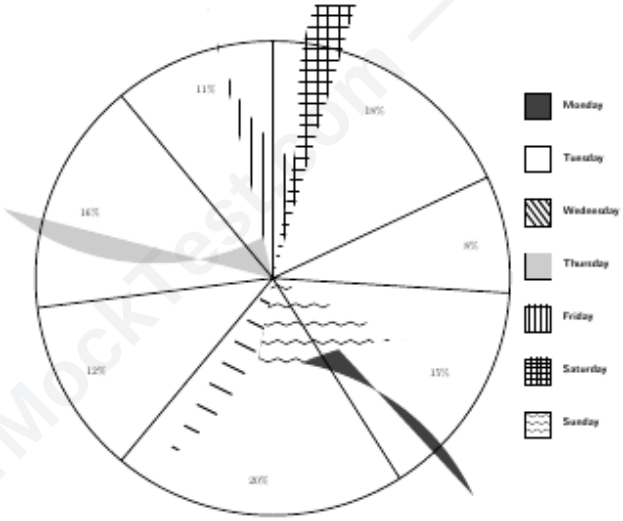
(a) 6 h
(b) 4 h
(c) 12 h
(d) 8 h

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Q40. There are four people in a family. The average age of these four members is 32 years. The father's age is 50 years, the mother's age is 46 years, and the daughter's age is 20 years. Find the age of the only son in the family.

(a) 18 years
(b) 16 years
(c) 14 years
(d) 12 years

Q41. The given pie chart represents the percentage distribution of the number of sandwiches sold by a shopkeeper on different days of a week.



The total number of sandwiches sold on Tuesday is what percentage of the total number of sandwiches sold on Saturday?

(a) 40%
(b) 60%
(c) 45%
(d) 50%

Q42. The value of 25% of 544 + 38% of 1400 + 60% of 2880 is:

(a) 2395
(b) 2396
(c) 2400
(d) 2392

Q43. The profit earned on selling a bike for Rs. 68,250 is the same as the loss incurred on selling the bike for Rs. 47,250. Find the cost price of the bike.

(a) Rs. 57,250
(b) Rs. 57,375
(c) Rs. 57,500
(d) Rs. 57,750

Q44. A student has to obtain a minimum of 50% marks in an examination to pass. He scored 40% and failed by 30 marks. Find the total marks of the examination.

(a) 320
(b) 280
(c) 300
(d) 400

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Q45. Three pipes, D, E, and F, can fill a tank in 6 min, 8 min and 12 min, respectively. All the pipes are opened simultaneously, and then pipes D and E, are closed 3 minutes before tank is full. In how much time will the tank be full?

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

Q46. In a municipal election three candidates, Santosh, Ravi, and Vipin, contested and the valid votes they got were in the ratio of 11 : 4 : 9. If the winner defeated his nearest rival by 8350 votes, then how many valid votes were polled in that election?

(a) 1,02,000
(b) 2,10,000
(c) 1,90,000
(d) 1,00,200

Q47. The population of a town increases by 5% every year. If the present population of the town is 282240, then what was the population of the town 2 years ago?

(a) 266000
(b) 256000
(c) 228000
(d) 225000

Q48. Shital covers a certain distance in 9 hours at the speed of 40 km/h. If she wants to cover the same distance in 6 hours, then by how much will she have to increase her speed (in km/h)?

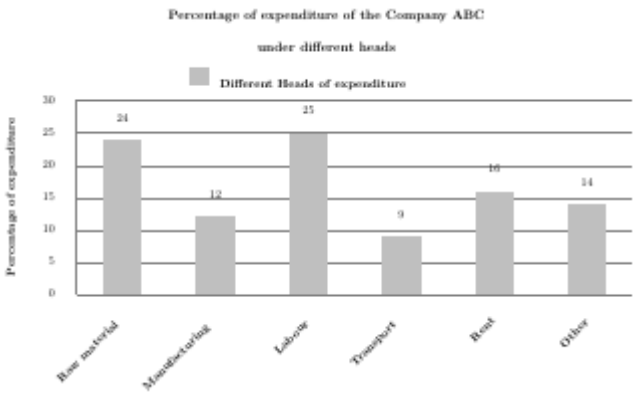
(a) 12
(b) 15
(c) 18
(d) 20

Q49. A steel rod of 4 cm diameter and 14 cm length is used in the making of solid cubical dice. If the length of each side of each dice is 4 mm, then how many such dice can be made from this rod? [Use π = 22/7]

(a) 2750
(b) 3275
(c) 2250
(d) 2050

Q50. Study the given bar-graph and answer the question that follows.

The bar-graph given below shows the distribution of the expenditure of the Company ABC under different heads during a given year as percentages of the total expenditure of the company during that year. The total annual expenditure of the company is Rs. 30 crores.



What is the difference (in Rs.) between the amount spent on rent and that on other expenses?

(a) 0.8 crore

(b) 1.5 crore
(c) 1.2 crore
(d) 0.6 crore

GENERAL ENGLISH

Q51. Select the most appropriate option to fill in the blank.

William _____ his friends not to intrude into his family's affairs.

(a) claimed
(b) gambled
(c) warned
(d) satisfied

Q52. Select the most appropriate option to fill in the blank.

Vendors expressed their concerns over the _____ price of onion.

(a) raise
(b) raising
(c) rising
(d) rise

Q53. 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.

Despite the doctor's stern warning,/he continued taking sugar/in his tea.

(a) in his tea
(b) No error
(c) he continued taking sugar
(d) Despite the doctor's stern warning,

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

The agility of the acrobat _____ and thrilled the audience.

(a) amaze
(b) amazes
(c) amazing
(d) amazed

Q55. Select the most appropriate synonym of the given word.

Advent

(a) Purpose
(b) Departure
(c) Arrival
(d) Turn

Q56. Select the most appropriate option to fill in the blank.

Most people believe that working out and meeting fat loss needs is challenging, but a _____ basic program can take you a long way.

(a) erratic
(b) consistent
(c) strange
(d) impartial

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

While the symptoms are troubling, they typically resolve within two weeks.

(a) No improvement required

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(b) was troubling
(c) is troubling
(d) are troubled

Q58. 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.

I don't know anyone who spoken Portuguese in my school.

(a) No error
(b) who spoken Portuguese
(c) I don't know anyone
(d) in my school

Q59. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

No sooner had he got out of her sight that she proceeded to tamper with the letter.

(a) No improvement required
(b) No sooner did he got out of her sight and
(c) As soon as he got out of her sight than
(d) No sooner had he got out of her sight than

Q60. Select the most appropriate meaning of the underlined idiom in the given sentence.

Neha stood beside my sister through thick and thin.

(a) In a strange manner
(b) under all circumstances
(c) Without any result
(d) in good times only

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

I was thinking about buying an new vehicle.

(a) bought a new
(b) buy a newly
(c) No improvement reuired
(d) buying a new

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

The garret where he lay at night had long been _____, and a great number of mice had made their home in it.

(a) vacant
(b) partial
(c) visible
(d) thick

Q63. 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.

I am dealing with / some family issues / right now.

(a) No error
(b) some family issues
(c) right now
(d) I am dealing with

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

Everyone must participate in this session as it is on a subject that affects the community.

(a) No improvement required
(b) effects

(c) affecting
(d) affect

Q65. Select the INCORRECTLY spelt word.

(a) Perfidy
(b) Misanthrope
(c) Relentless
(d) Ingenuos

Q66. Select the most appropriate ANTONYM of the given word.

Luminous

(a) Hunched
(b) Homespun
(c) Simple
(d) Dim

Q67. Select the correctly spelt word.

(a) Condusive
(b) Apparently
(c) Bottelneck
(d) Endognous

Q68. Select the most appropriate synonym of the given word.

Merry

(a) Morose
(b) Happy
(c) Somber
(d) Angry

Q69. Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement required'.

My mother looked at Sana and me with her mouth slight openly.

(a) an openly slight
(b) No improvement required
(c) open slight
(d) slightly open

Q70. Select the most appropriate meaning of the given idiom.

The lion's share

(a) The most challenging goal of many
(b) The most important person
(c) The most expensive item
(d) The biggest and best part of a whole

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.

Every evening, (1) ____ a point midway along the arrow-straight road between Amritsar and Lahore, rival squads of (2) __ uniformed soldiers strut and stomp a 17th-century British military drill known as Beating Retreat. Barked commands, (3) __ glares, and preposterously high kicks all signal violent intent. But then, lovingly and in (4) __, the enemies lower their national flags. Opposing guardsmen (5) ____ shake hands, and the border gates roll shut for the night.

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

(a) in
(b) along
(c) on
(d) at

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

(a) elatedly
(b) gladly
(c) splendidly
(d) badly

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

(a) silly
(b) witty
(c) fierce
(d) diverting

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

(a) unison
(b) unlikeliness
(c) discord
(d) plenty

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

(a) brightly
(b) curtly
(c) critically
(d) radically

GENERAL AWARENESS

Q76. With which of the following sports is Aditi Ashok is associated?

(a) Tennis
(b) Shooting
(c) Chess
(d) Golf

Q77. The Coriolis Force is caused by _____.

(a) earth's rotation
(b) sunlight
(c) tidal waves
(d) wind

Q78. Which of the following physical quantities has same SI unit as that of work?

(a) Pressure
(b) Power
(c) Force
(d) Energy

Q79. Who was conferred with the National Nritya Shiromani Award 2022?

(a) Anindita Neogy Anaam
(b) Aparna Satheesan
(c) Shantha Dhananjayan
(d) Birju Maharaj

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Q80. Who became Indian Air Force's first woman fighter pilot from Jammu and Kashmir in 2021?

(a) Punita Arora
(b) Mitali Madhumita
(c) Padmavathy Bandopadhyay
(d) Mawya Sudan

Q81. _____ is a popular game in Assam and resembles kabaddi played with a ball.

(a) Field Hockey
(b) Kho-Kho
(c) Cricket
(d) Dhopkhel

Q82. In which year did the Mongols under Genghis Khan invade Transoxiana in North-East Iran?

(a) 1219
(b) 1208
(c) 1213
(d) 1205

Q83. Which of the following classifications do humans NOT fall under?

(a) Chordata
(b) Porifera
(c) Hominidae
(d) Vertebrata

Q84. Ramabhar Stupa, which marks the site where Lord Buddha was cremated, is situated in which state of India?

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

Q85. Which author wrote the famous novel, 'The White Tiger'?

(a) Vikram Seth
(b) Jhumpa Lahiri
(c) Arundhati Roy
(d) Aravind Adiga

Q86. Onam is an annual Hindu festival with origins in the state of _____ in India.

(a) Jharkhand
(b) Manipur
(c) Kerala
(d) Mizoram

Q87. Who among the following Indian singers received the 'Bharat Ratna' in 2001?

(a) Asha Bhosle
(b) Ali Akbar Khan
(c) Shreya Ghoshal
(d) Lata Mangeshkar

Q88. The minimum temperature of the day occurs generally _____.

(a) in the evening
(b) at night
(c) in the afternoon
(d) in the early morning

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Q89. The Begums of Bhopal founded a primary school for girls in the early twentieth century at _____.

(a) Lahore
(b) Bombay
(c) Aligarh
(d) Pune

Q90. Which scheme was launched in February 2022 to provide welfare and rehabilitation to the transgender community and the people engaged in the act of begging?

(a) SMILE Scheme
(b) CLAP Scheme
(c) DevINE Scheme
(d) Sadbhavana Scheme

Q91. Adityanath Yogi won from which constituency in the 2022 assembly elections?

(a) Bilaspur
(b) Muzaffarnagar
(c) Gorakhpur (Urban)
(d) Noida

Q92. In the 18th century, the British fought _____ wars with the Mysore rulers.

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

Q93. Sam has an income of Rs. 9 lacs per annum. Which tax slab (new regime) of India is applicable to him for FY 22-23?

(a) 15%
(b) 10%
(c) 5%
(d) 20%

Q94. Which of the following pairs of 'Natural source-Acid' is NOT correctly matched?

(a) Tamarind-Oxalic acid
(b) Vinegar-Acetic acid
(c) Curd-Lactic acid
(d) Orange-Citric acid

Q95. Which type of unemployment is mostly found in urban areas?

(a) Educated unemployment
(b) Cyclic unemployment
(c) Open unemployment
(d) Seasonal unemployment

Q96. Who, with the help of Kautilya, overthrew Dhanananda, the last Nanda ruler, in 322 BC?

(a) Ashoka
(b) Chandragupta Maurya
(c) Akbar
(d) Kalashoka

Q97. Which of the following airports is located in Amritsar?

(a) Thiruvananthapuram International Airport
(b) Dr Babasaheb Ambedkar International Airport
(c) Sri Guru Ram Das Ji International Airport
(d) Indira Gandhi International Airport

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Q98. Push and pull factors are associated with which component of the population?

(a) Migration
(b) Death rate
(c) Birth rate
(d) Age

Q99. Who among the following was the first to bring the concept of modern dance to India with his novel approach and works?

(a) Guru Bipin Singh
(b) Padma Subrahmanyam
(c) Kelucharan Mohapatra
(d) Uday Shankar

Q100. According to the Indian Constitution, no child below the age of _____ years shall be employed to work in any factory or mine or engaged in any other hazardous employment.

(a) fourteen
(b) ten
(c) twelve
(d) sixteen

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

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