SSC MTS (2022) Official Paper (Held On: 17 May, 2023 Shift 2) (Previous Year Paper)

SSC Multi-Tasking Staff (MTS) • 2022 • 90 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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SESSION 1

Q1. 14 people can do work in 28 days. In how many days, can 8 people complete double the work?

(a) 55 days
(b) 98 days
(c) 80 days
(d) 32 days

Q2. A solid hemisphere of radius 8 cm is melted into N identical cone whose radius is 4 cm and height is 2 cm. Then, what is the value of N?

(a) 26
(b) 10
(c) 32
(d) 25

Q3. After allowing 15% discount, a dealer wishes to sell a motor for Rs. 3570. What should be the marked price of the motor?

(a) Rs. 3900
(b) Rs. 4000
(c) Rs. 4200
(d) Rs. 4800

Q4. At what rate percent per annum will a sum of money triples in 20 years on simple interest?

(a) 10% per annum
(b) 12% per annum
(c) 18% per annum
(d) 20% per annum

Q5. Alloy X contains 70% copper and 30% zinc. Alloy Y contains 40% copper, 25% zinc and 35% aluminium. Alloy X and Y are mixed in the ratio of 1 : 3. What is the ratio of copper and zinc in the newly formed alloy?

(a) 19 : 33
(b) 11 : 32
(c) 38 : 21
(d) 19 : 21

Q6. Five bells commence tolling together and toll at intervals of 5, 10, 15, 20 and 25 seconds respectively. In 1 hour 20 minutes, how many times do they toll together?

(a) 20 times
(b) 15 times
(c) 14 times
(d) 17 times

Q7. The following table shows yearly production of scooters (in thousands) in different factories. In which year the total production of scooters of all factories was equal to the yearly average number of scooters produced during 2015-2019?

Factory	Year				
2015	2016	2017	2018	2019	
A	25	30	15	23	16
B	14	24	12	17	20
C	20	41	17	21	13
D	40	39	35	32	41
E	16	15	22	15	12
Total	115	149	101	108	102

(a) 2015
(b) 2017
(c) 2016
(d) 2018

Q8. Simple Interest received by a person in 12 years on a principal of Rs. 12000 is 120 percent of the principal. What is the annual rate of interest?

(a) 20 percent
(b) 12 percent
(c) 10 percent
(d) 5 percent

Q9. A alone can do a work in 16 days and B alone can do the same work in 12 days. If they worked together on it for 4 days and then A left. How long did B take to finish the remaining work?

(a) 7 days
(b) 5 days
(c) 6 days
(d) 8 days

Q10. What is the average of first five multiples of 11?

(a) 11
(b) 55
(c) 33
(d) 22

Q11. Walking at the speed of 5 kmph, a man covers a certain distance in 3 hours. Running at a speed of 15 kmph the man will cover the same distance in:

(a) 2 hours
(b) 1 hour
(c) 30 minutes
(d) 1 hour 30 minutes

Q12. Rakesh incurs 4% loss by selling a TV for Rs. 39216. At what price should the TV be sold to earn 4% profit?

(a) Rs. 48560
(b) Rs. 42484
(c) Rs. 45600
(d) Rs. 49780

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Q13. Find the loss percentage if : Cost price = Rs. 4500 and Selling price = Rs. 3900

(a) 13.3%
(b) 14.5%
(c) 14%
(d) 13%

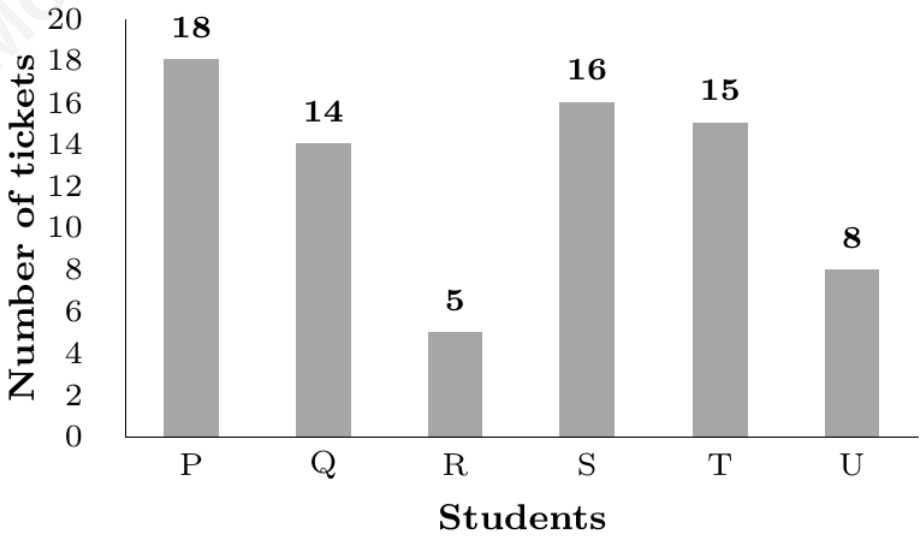
Q14. If a number A is 40 percent less than another number B and B is 20 percent more than 100, then what is the value of A?

(a) 58
(b) 84
(c) 72
(d) 66

Q15. The students in three classes are in a ratio of 3 : 7 : 8. If 6 students are increased in each class, the ratio changes to 11 : 23 : 26. Find the total number of students in the three classes before the increase.

(a) 162
(b) 112
(c) 90
(d) 144

Q16. The following graph shows the number of tickets sold by 6 students P, Q, R, S, T and U during a fair. What percent of the total tickets were sold by Q, S and U?



(a) 40%
(b) 20%
(c) 30%
(d) 50%

Q17. A cuboid is of dimensions 80 cm × 64 cm × 50 cm. How many small cube with side 8 cm can be placed in the given cuboid?

(a) 500
(b) 700
(c) 1000
(d) 200

Q18. If the diameter of a circle is 14 cm, find the area of the sector of the circle whose central angle measure 60 degree.

(a) 18.12 cm²
(b) 25.66 cm²
(c) 38.12 cm²

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(d) 21.66 cm²

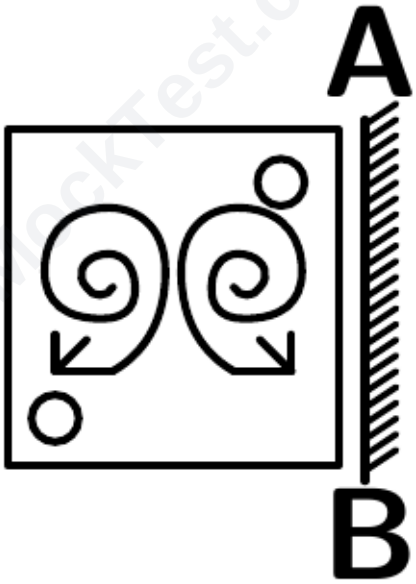
Q19. What is the value of 0.4 × 0.5 + 2 × (0.10 - 0.5)?

(a) 1
(b) 0.40
(c) 0
(d) -0.60

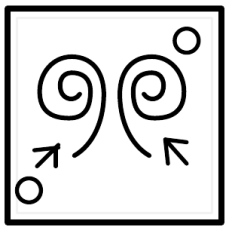
Q20. A speeding car traveling at 40 km/hr decides to slow down to 30 km/hr after covering half the distance. What is the average speed?

(a) 30 km/hr
(b) 120/7 km/hr
(c) 240/7 km/hr
(d) 35 km/hr

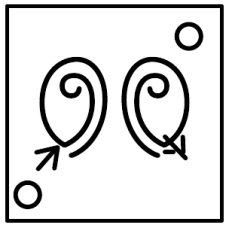
Q21. Select the correct mirror image of the given figure when the mirror is placed at AB as shown below.



(a)

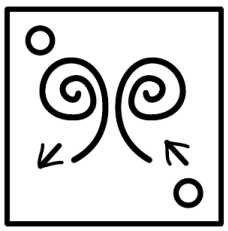


(b)

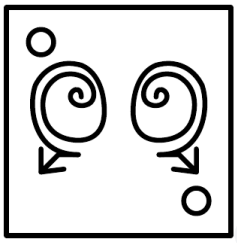


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(c)



(d)



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.

5 : 125 :: 8 : ?

(a) 512
(b) 576
(c) 343
(d) 216

Q23. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row- 6, 216, 180

Second row- 8, 512, 448

Third row- 10, 1000, ?

(a) 800
(b) 1100
(c) 900
(d) 1300

Q24. In a certain code language, 'SPEAKER' is written as 'RQDBJFQ'. How will 'MOBILE' be written in that language?

(a) LPAJKS
(b) LSPJKS
(c) LPSJAK
(d) LPAJKF

Q25. 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 kings are rich.

Some rich are proud.

Conclusions:

I. Some kings are not proud.

II. Some rich are not proud.

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

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Q26. Six sisters Hina, Ishita, Jena, Kamla, Lalita, Meena are sitting in two rows. Three of them face north and the other three face south. Sisters sitting in the same row face the same direction. Meena is facing south and is not sitting in the corner. Lalita is facing Hina who is sitting to the right of Meena. Ishita is to the immediate right of Jena. Who sits opposite Ishita?

(a) Hina
(b) Meena
(c) Lalita
(d) Kamla

Q27. In a certain code language, ‘HERO' is coded as '7, 4, 17, 14', 'ICON' is coded as '8, 2, 14, 13'. What is the code for 'JOIN' in that code language?

(a) 8, 14, 9, 13
(b) 9, 14, 8, 13
(c) 9, 14, 9, 13
(d) 10, 14, 8, 13

Q28. Which two numbers should be interchanged to make the given equation correct?

84 ÷ 6 + 16 - 14 × 2 = 10

(a) 6 and 14
(b) 2 and 84
(c) 10 and 14
(d) 6 and 10

Q29. Which of the following letter clusters will replace the blanks in the given series?

stss _ ssstsss _ tss _ _ stssssssst

(a) tsss
(b) sstt
(c) ssst
(d) ttss

Q30. Which of the following numbers will replace the question mark (?) in the given series?

158, 160, 164, 170, 178, 188, 200, ?

(a) 210
(b) 215
(c) 214
(d) 230

Q31. Six ladies Aditi, Pinki, Rina, Minal, Sneha and Zoya are sitting in a straight row facing North. Sneha and Zoya are in the centre. Aditi and Pinki are at the corners. Rina is sitting to the immediate left of Aditi. Who is sitting to the immediate right of Pinki?

(a) Zoya
(b) Sneha
(c) Aditi
(d) Minal

Q32. Six brothers Aman, Bunty, Chandu, Deepak, Emad and Faisal, each has a different height. Bunty is taller than only three brothers. Faisal is only taller than Deepak. Chandu is shorter than Aman only. Who is the fourth tallest among the brothers?

(a) Deepak
(b) Emad
(c) Chandu
(d) Bunty

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Q33. 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.

KITCHEN : TIKCNEH :: PLUMBER : ?

(a) ULPRMBE
(b) ULPMREB
(c) ULPREMB
(d) ULPBREM

Q34. 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:

No girl is a horse.

Rachel is a girl.

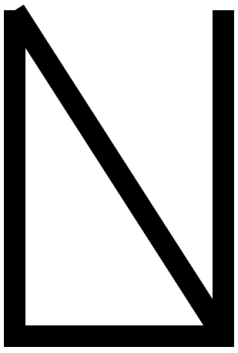
Conclusions:

I. Rachel is not a horse.

II. All girls are not Rachel.

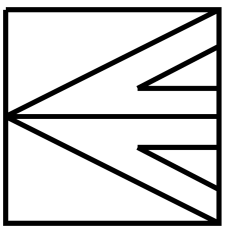
(a) Both conclusions I and II follow
(b) Neither conclusion I nor II follows
(c) Only conclusion I follows
(d) Only conclusion II follows

Q35. Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).



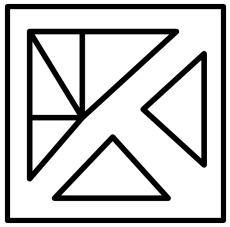
X

(a)

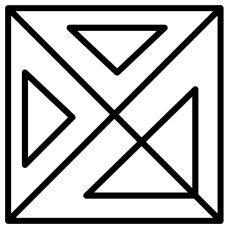


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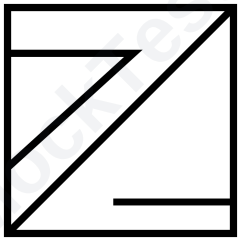
(b)



(c)



(d)



Q36. In a certain code language, 'FALF' is written as 'HCJD'. How will 'OEMC' be written in that language?

(a) QGAK
(b) QGKA
(c) QKAG
(d) QKGA

Q37. 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.

TREE : USDD :: SOAP : ?

(a) TZPO
(b) TZNQ
(c) TPZO
(d) TNQZ

Q38. After interchanging the given two signs what will be the values of equation (I) and (II) respectively?

× and -

I. 18 × 8 - 6 ÷ 3 + 4

II. 7 - 8 × 4 ÷ 2 + 15

(a) 89 and 6
(b) 6 and 69
(c) 18 and 10
(d) -8 and 10

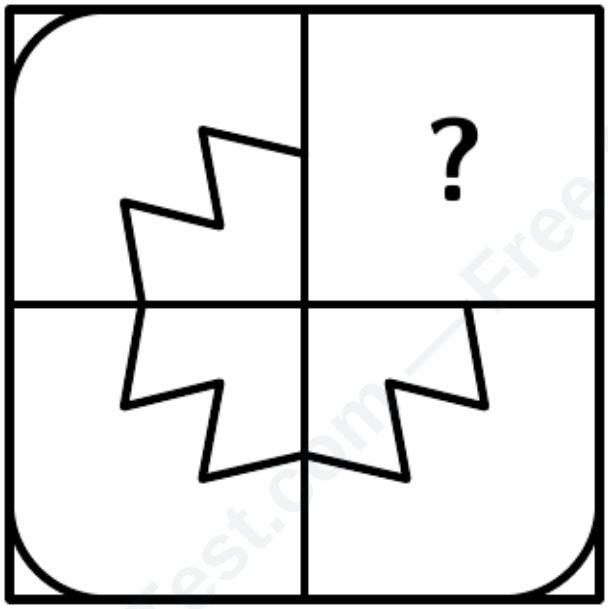
Q39. Which of the following numbers will replace the question mark (?) in the given series?

15, 16, 32, 35, 140, 145, ?

(a) 910
(b) 870
(c) 840
(d) 790

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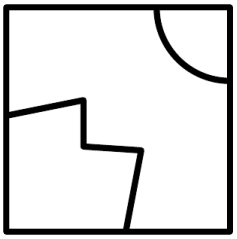
Q40. Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern. (rotation not allowed)



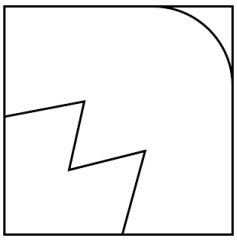
(a)



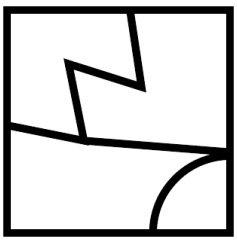
(b)



(c)



(d)



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SESSION 2

Q41. Which among the following rulers adopted the title devaputra?

(a) Hoyasala
(b) Kushana
(c) Chola
(d) Saka

Q42. What was the theme of International Yoga Day (2022)?

(a) Yoga for Good Body
(b) Yoga for Humanity
(c) Yoga for Good Mind
(d) Yoga for Life

Q43. Basketball game is played between two teams of _____ players each.

(a) five
(b) six
(c) eight
(d) four

Q44. According to the first National Multidimensional Poverty Index by NITI Aayog, which state has the maximum percentage of poor people?

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

Q45. Editor of a Marathi newspaper “Kesari” was _____.

(a) Bipin Chandra Pal
(b) Aurobindo Ghosh
(c) Lala Lajpat Rai
(d) Bal Gangadhar Tilak

Q46. In which of the following articles, “Right of minorities to establish and administer educational institution” is mentioned?

(a) Article 29
(b) Article 31
(c) Article 30
(d) Article 28

Q47. The broad, green part of the leaf is called _____.

(a) lamina
(b) petiole
(c) veins
(d) midrib

Q48. According to _____ law, heat produced by an electric current is directly proportional to the resistance of the conductor, the square of the current, and the time for which it flows.

(a) Hooke's
(b) Charles's
(c) Faraday's
(d) Joule's

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Q49. The Ilbert Bill was passed during the term of Lord Ripon to bring Indian and European magistracy on equal footing in _____.

(a) 1876
(b) 1883
(c) 1871
(d) 1892

Q50. The Khangchendzonga Biosphere Reserve is located in which of the following states?

(a) Manipur
(b) Assam
(c) Sikkim
(d) Kerala

Q51. Seasonal reversal in the wind direction during a year refers to _____.

(a) Monsoon
(b) Emission
(c) Breeze
(d) Climate

Q52. Kumari Kamala was awarded with Padma Bhushan in 1970. She is a preeminent artist of the _____ tradition of the dance.

(a) Vazhuvoor
(b) Kuchipudi
(c) Tamzara
(d) Kurdish

Q53. The Nobel Prize in Physiology or Medicine 2022 is awarded to _____.

(a) Giorgia Meloni
(b) Svante Paabo
(c) Ales Bialiatski
(d) Valeri Polyakov

Q54. The Vadhavan Port is located in _____.

(a) Kerala
(b) Tamil Nadu
(c) West Bengal
(d) Maharashtra

Q55. The Kuiper Belt is a ring of icy rocks & dust bodies just outside the orbit of _____.

(a) Saturn
(b) Venus
(c) Jupiter
(d) Neptune

Q56. The Merdeka Cup is associated with which of the following sports?

(a) Golf
(b) Hockey
(c) Chess
(d) Football

Q57. Which of the following is NOT part of six school of Indian Philosophy?

(a) Samkhya
(b) Yoga
(c) Nyaya
(d) Dravida

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Q58. Indian economy is seen growing at _____ per cent in the current fiscal, finance minister Nirmala Sitharaman said while presenting the Union Budget 2022.

(a) 6.5
(b) 7.4
(c) 5.3
(d) 9.2

Q59. According to the Mediation Bill, 2021, the mediation process must be completed within 180 days, which may be extended by another _____ days by the parties.

(a) 220
(b) 120
(c) 200
(d) 180

Q60. The six - day Khajuraho Dance festival is celebrated in which of the following state?

(a) Haryana
(b) Madhya Pradesh
(c) Assam
(d) Kerala

Q61. The first population census in India was conducted in _____.

(a) 1872
(b) 1870
(c) 1862
(d) 1865

Q62. Sri Deepak Mazumdar received the Sangeet Natak Akademi Award for the year _____.

(a) 2016
(b) 2019
(c) 2017
(d) 2018

Q63. Who among the following built the Hawa Mahal in Jaipur?

(a) Maharaja Narinder Singh
(b) Krishnarajendra Wadiyar IV
(c) Maharaja Sawai Pratap Singh
(d) Raja Man Singh - I

Q64. Annapurna Devi was known to practice which musical instrument?

(a) Surbahar
(b) Sarod
(c) Violin
(d) Bamboo Flute

Q65. "India at Risk" is written by which of the following authors?

(a) Jaswant Singh
(b) Khushwant Singh
(c) Natwar Singh
(d) Vijay Darda

Q66. Direction: Select the most appropriate meaning of the given idiom.

Between a rock and a hard place

(a) Stuck between two very bad options
(b) Willing to do anything
(c) On the point of achievement

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(d) Avoiding the main topic, not speaking directly about the issue

Q67. Direction: 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 only course of action to (fend of the loud clamour off conspiracy theories) is to keep everyone fully informed.

(a) fend off the loud clamour of conspiracy theories
(b) No substitution required
(c) fend off the loud clamour off conspiracy theories
(d) fend of the loud clamour of conspiracy theories

Q68. Direction: In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.

To bear the brunt of

(a) An inexperienced person
(b) For one's sake
(c) To endure the impact of something
(d) To become free from

Q69. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

You can find these books into the extreme corner of this shelf.

(a) books into the extreme
(b) corner of this shelf.
(c) You can find these
(d) No error

Q70. Direction: Select the most appropriate option to fill in the blank.

Enzymes can _____ starches into sugars and proteins into amino acids.

(a) cover
(b) convert
(c) covert
(d) conserve

Q71. Direction: Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

Mothers can pass the HIV virus to their newborns during delivery as well, WHO says.

(a) as well, WHO says.
(b) Mothers can pass the HIV virus to
(c) No error
(d) their newborns during delivery

Q72. Direction: Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

And how amorous you become / when your courtship with the / muses is going stronger.

(a) No Error
(b) when your courtship with the
(c) muses is going stronger.
(d) And how amorous you become

Q73. Direction: Choose the word that can substitute the given group of words.

One who is 100 years old or older

(a) Centenarian
(b) Immortal
(c) Mortal
(d) Sententia

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Q74. Direction: A sentence has been given with a blank to be filled with an appropriate option. Choose the correct alternative.

The royal messengers _____ out last night.

(a) goes
(b) go
(c) gone
(d) went

Q75. Direction: Select the most appropriate option to fill in the blank.

He _____ his teeth against the curse on his tongue.

(a) dropped
(b) unclasped
(c) yielded
(d) clenched

Q76. Direction: Choose the incorrectly spelt word.

(a) Pleasurre
(b) Slogan
(c) Heaven
(d) Brinjal

Q77. Direction: Choose the word that means the same as the given word.

Villainous

(a) Wholesome
(b) Lucid
(c) Nefarious
(d) Famous

Q78. Direction: Select the most appropriate antonym of the given word.

Culpable

(a) Rigorous
(b) Reasonable
(c) Innocent
(d) Edible

Q79. Direction: Improve the underlined part of the sentence. Choose 'No improvement' as an answer if the sentence is grammatically correct.

The sea wall protected the village in the waves.

(a) No improvement
(b) village from
(c) village through
(d) village by

Q80. Direction: Select the appropriate synonym for the underlined word.

John says, "I am serious."

(a) safe
(b) severe
(c) comical
(d) light

Q81. Direction: Select the most appropriate word for the given group of words.

A large, tall cupboard in which clothes may be hung or stored

(a) Wardrobe
(b) Hypergamy

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(c) Gibber
(d) Honorary

Q82. Direction: Choose a sentence with no spelling error.

(a) He wondered about lots of things.
(b) He wondered about lotts of things.
(c) He wondared about lots of things.
(d) He wondered about lots of thinggs.

Q83. Direction: A sentence has been given with a blank to be filled with an appropriate option. Choose the correct alternative.

I _____ only a few steps before I was forced to stop.

(a) had walked
(b) have walked
(c) walk
(d) walked

Q84. Direction: Select the appropriate antonym for the underlined word.

A mysterious glowing girl has informed him of the death.

(a) evident
(b) cryptic
(c) critical
(d) murky

Q85. Direction: Improve the underlined part of the sentence. Choose 'No improvement' as an answer if the sentence is grammatically correct.

Dr. Mark said I can came to his office on Friday or Saturday of next week.

(a) No improvement
(b) coming to his office at
(c) comes to his office in
(d) come to his office on

Directions

Direction: 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.

"Why?" said Harry in surprise, "There is a ____ (1) __, Harry Potter. A plot to make most terrible things __ (2) __ at Hogwarts School of Witchcraft and Wizardry __ (3) __," whispered Dobby, suddenly trembling all over. "Dobby has __ (4) __ months, sir. Harry Potter __ (5) ____ in peril.

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

(a) paper
(b) plot
(c) notebook
(d) diary

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

(a) happen
(b) happens
(c) happening
(d) happened

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

(a) those years
(b) that year
(c) the year

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(d) this year

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

(a) known it for
(b) had knowing for
(c) had acknowledging for
(d) been known since

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

(a) must not insert himself
(b) must not put his self
(c) might not put oneself
(d) must not put himself

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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