SSC MTS (2022) Official Paper (Held On: 04 May 2023 Shift 3) (Previous Year Paper)

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

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SESSION 1

Q1. The average weight of 10 boys is increased by 3 kg if one of them weighing 40 kg is replaced by a new boy. The weight of the new boy is:

(a) 45 kg
(b) 70 kg
(c) 80 kg
(d) 40 kg

Q2. What is the value of 156/13 × 147/24× 8/49 of 24/144 ?

(a) 8
(b) 2
(c) 12
(d) 6

Q3. The monthly consumption of milk for 90 students in a school hostel is 183 litres. If the monthly ration of milk is increased to 915 litres, then how many students can be accommodated in the hostel? (Assuming that per capita consumption of milk remains the same)

(a) 250
(b) 550
(c) 450
(d) 350

Q4. Find the value of 56 ÷ 8 × 3 + 30 - 25 ÷ 5 + 10.

(a) 56
(b) 54
(c) 50
(d) 48

Q5. Priya borrowed a certain sum at the rate of 12% per annum. If she paid Rs. 10176 at the end of 2 years as interest compounded annually. What was the sum she borrowed?

(a) Rs. 30000
(b) Rs. 20000
(c) Rs. 50000
(d) Rs. 40000

Q6. Simplify: 34 - [28 - {12 - (8 - 2 - 3)}].

(a) 15
(b) 28
(c) 34
(d) 19

Q7. A man bought an old printer for Rs. 2200 and spent Rs. 800 on its repair. He sold it for Rs. 3600. Find his profit percentage.

(a) 30%
(b) 20%
(c) 15%
(d) 25%

Q8. A solid cylinder having radius of base as 21 cm and height as 16 cm is bisected from its height to get two identical cylinders. What will be the percentage increase in the total surface area?

(a) 56.76 percent
(b) 42.52 percent
(c) 62.34 percent
(d) 48.88 percent

Q9. What will be the curved surface area of cylinder having radius 20 cm and height 34 cm? (use $\pi = 3.14$)

(a) 3245.7 cm2
(b) 4328.98 cm2
(c) 4270.4 cm2
(d) 4320.6 cm2

Q10. The first, third and fourth terms of a proportion are 8, 16 and 6 respectively. What is the second term?

(a) 3
(b) 6
(c) 8
(d) 12

Q11. An airplane covers a certain distance at a speed of 400 km/hr in 8 hours. To cover the same distance in 5 hours, the speed of the airplane will be:

(a) 640 km / hr
(b) 680 km / hr
(c) 580 km / hr
(d) 600 km / hr

Q12. Riya alone can complete a piece of work in 6 days while Siya alone can do the same work in 9 days. If they both work together, then how many days will be required to finish the work?

(a) 45/13 days
(b) 18/5 days
(c) 33/17 days
(d) 55/16 days

Q13. If 8 men working 8 hours per day for 8 days produces 64 chairs, then how many chairs 4 men will produce working 4 hours per day for 4 days?

(a) 6
(b) 8
(c) 12
(d) 10

Q14. The following table shows the distance (in km) travelled by different vehicles on Monday, Tuesday and Wednesday. Find the total distance travelled by vehicle A.

Vehicle	Monday	Tuesday	Wednesday
A	100	274	320
B	210	330	410
C	140	450	500

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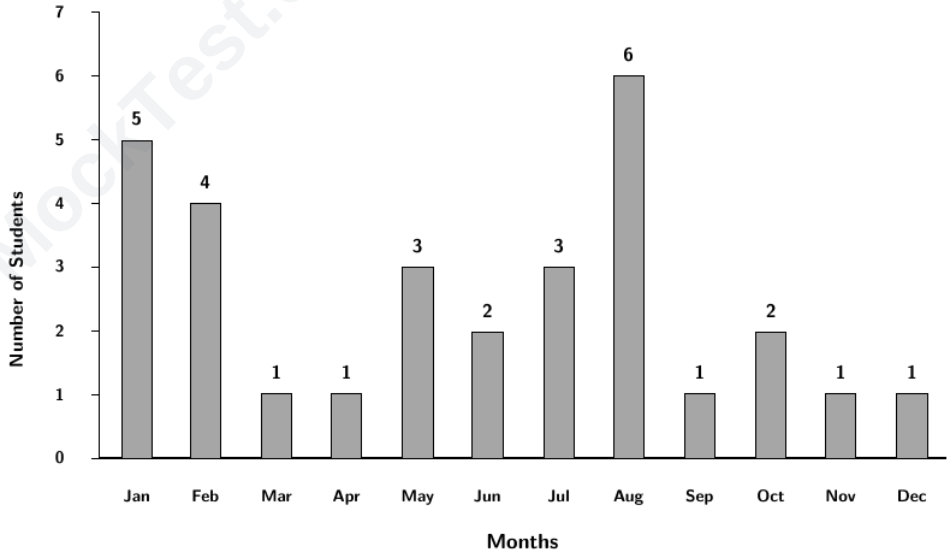
D	220	156	180
E	242	188	190

(a) 694 km
(b) 688 km
(c) 710 km
(d) 880 km

Q15. When the price of an article was increased by 5% its sale reduced by 10%. What was net effect on the revenue?

(a) 5% increase
(b) 5.5% decrease
(c) 5.5% increase
(d) 5% decrease

Q16. The following bar graph shows the birthday months of 30 students of a class. How many students have their birthday during Jul-Nov?



(a) 15
(b) 13
(c) 8
(d) 10

Q17. A car travels 80 km in first hour and 70 km in second hour. What is the average speed of the car?

(a) 150 km / hr
(b) 80 km / hr
(c) 75 km / hr
(d) 100 km / hr

Q18. A man sold an item for Rs. 33750 and incurred a loss of 25%. At what price should he sold the item to have a profit of 25% ?

(a) Rs. 45000
(b) Rs. 52450
(c) Rs. 40850
(d) Rs. 56250

Q19. How much time will it take for an amount of Rs. 600 to yield Rs. 54 as interest at 3% per annum of simple interest ?

(a) 1 year
(b) 2 year
(c) 4 year

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(d) 3 year

Q20. On a deal, the car dealer allowed 1% discount to a customer. If the discount allowed was Rs. 4000, then what is the selling price of the car?

(a) Rs. 388500
(b) Rs. 380500
(c) Rs. 395600
(d) Rs. 396000

Q21. Eight teachers 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). Ramu is third to the left of Ram. Vivek is third to the right of Ram. Aakash is to the immediate right of Anil. Sanjay is not the immediate neighbour of Ram or Ramu. Rahul is second to the left of Anil. Who is second to the left of Kamal?

(a) Ram
(b) Rahul
(c) Aakash
(d) Ramu

Q22. 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 L are M.

II. All G are M.

Conclusion:

I. No G is L.

II. No M is L.

III. Some M are G.

(a) Both conclusions I and II follows
(b) Only conclusion II follows
(c) Both conclusions I and III follows
(d) Only conclusion III follows

Q23. In the following question, select the missing number of the given series.

25, 23, 19, 11, - 5,?

(a) • 40
(b) • 30
(c) • 50
(d) • 37

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 fourth number is related to third number.

7 : 125 :: 8 : 216 :: 9 : ?

(a) 755
(b) 824
(c) 343
(d) 729

Q25. In a certain code language. FOUR' is written as '6PV18'. How will 'DARK' be written in that language?

(a) 4B1S1
(b) 4SB11
(c) 4BS11
(d) 4BS12

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Q26. After interchanging which two signs, the value of the given equation will be '1'?

12 × 6 - 28 + 3 ÷ 9

(a) × and +
(b) • and -
(c) ÷ and ×
(d) × and -

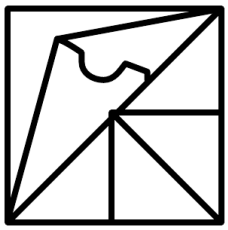
Q27. In a certain code language, 'BADAM' is written as '69760', 'JBDN' is written as '0849', 'CANDY' is written as '39654'. How is 'B' written in that code language?

(a) 0
(b) 9
(c) 4
(d) 6

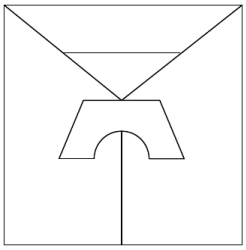
Q28. Select the option figure in which the given figure is embedded. (rotation is NOT allowed)



(a)

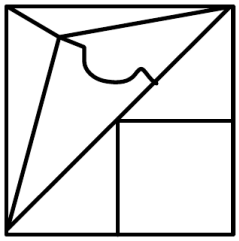


(b)

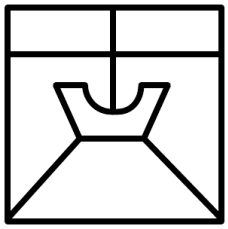


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(c)



(d)



Q29. 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. All B are V.

II. All K are B.

Conclusion:

I. All K are V.

II. No V is B.

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

Q30. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

TABC, QCYE, NEVG, KGSI,?

(a) HJPL
(b) GIPK
(c) HIQK
(d) HIPK

Q31. 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 fourth term is related to third term

TR4 : XC64 :: AC3 : EN27 :: FP6 : ?

(a) JA216
(b) JB125
(c) JA125
(d) JB216

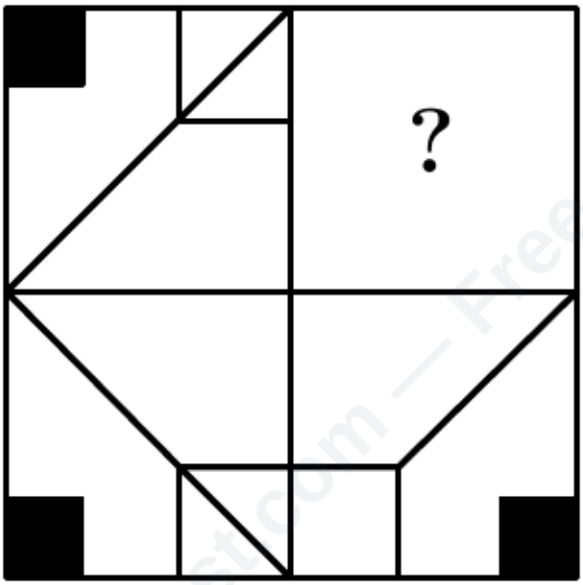
Q32. In the following question, select the missing number of the given series.

164, 139, 114, 89, 64,?

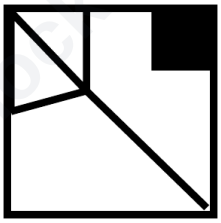
(a) 29
(b) 40
(c) 49
(d) 39

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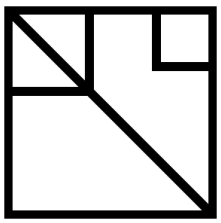
Q33. Which answer figure will complete the pattern in the question figure?



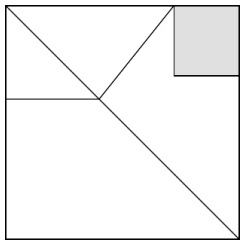
(a)



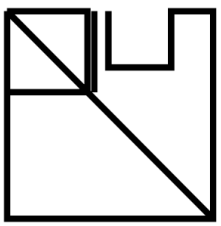
(b)



(c)



(d)



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Q34. Six teachers Anil. Kamal, Ram, Sanjay, Aakash and Vivek are sitting around a circular table facing towards the centre (not necessarily in the same order). Ram is third to the right of Vivek. Vivek is second to the right of Anil. Aakash is to the immediate right of Anil. Kamal is not the immediate neighbour of Vivek. Who is second to the left of Sanjay?

(a) Aakash
(b) Ram
(c) Anil
(d) Kamal

Q35. 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, 64, 4)

(5, 100, 5)

(a) (8, 256, 8)
(b) (6, 196, 6)
(c) (10, 200, 10)
(d) (25, 100, 4)

Q36. Select the option that is related to the fourth term in the same way as the first term is related to the second term and fifth term is related to sixth term.

ARB : ZPY :: ? : XVD :: PIN : LGN

(a) EYZ
(b) EXZ
(c) FXZ
(d) FYZ

Q37. Speed of six bikes T1, T2, T3, T4, T5 and T6 are compared. Speed of T6 is more than only three bikes. No two bikes have same speed. Speed of T4 is more than T2 but less than T6. Speed of T3 is not less than T5. Speed of T2 and T5 is not least. How many bikes have less speed than T3?

(a) 0
(b) 1
(c) 3
(d) 5

Q38. Which two signs should be interchanged to make the given equation correct?

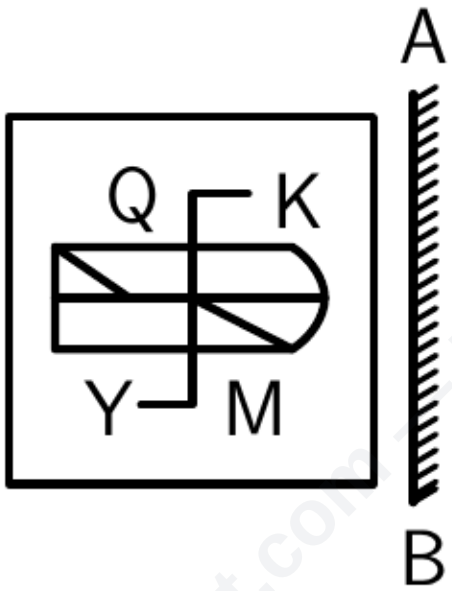
8 + 9 ÷ 5 × 4 - 2 = 7

(a) = and +
(b) • and =
(c) ÷ and -
(d) • and -

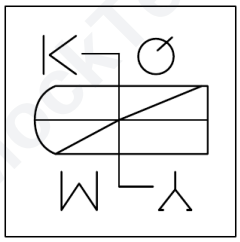
Q39. In a certain code language, 'PROFIT is coded as "VIHOTP'. What is the code for 'RACING' in that code language?

(a) INKCCR
(b) INKCRC
(c) INKRCC
(d) ILNCCR

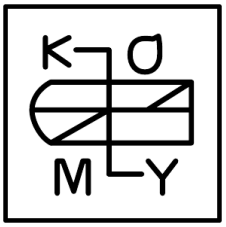
Q40. If a mirror is placed on the line AB, then out of the option figures which figure will be the right image of the question figure?



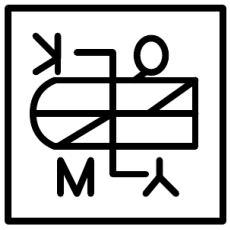
(a)



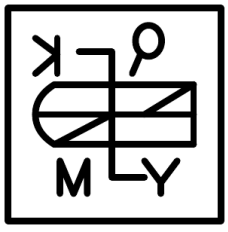
(b)



(c)



(d)



SESSION 2

Q41. Mallika Sarabhai received the prestigious _____ award by Government of India in the year 2010.

(a) Padma Bhushan
(b) Padma Vibhushan
(c) Jnanpith Award
(d) Bharat Ratna

Q42. In West Bengal, localised thunderstorms are known as _____.

(a) Loo
(b) Chinook
(c) Mango showers
(d) Kaal Baisakhi

Q43. Pandit Kishan Maharaj was a famous Indian _____ player.

(a) Sitar
(b) Sarangi
(c) Flute
(d) Tabla

Q44. Viceroy Curzon partitioned Bengal in _____.

(a) 1905
(b) 1901
(c) 1907
(d) 1903

Q45. The process of depositing a layer of zinc on iron is called _____.

(a) galvanization
(b) filtration
(c) sedimentation
(d) crystallisation

Q46. Prithviraja III defeated Afghan ruler sultan Muhammad Ghori in _____.

(a) 1191
(b) 1292
(c) 1192
(d) 1291

Q47. Which of the following is NOT one of the three main parts of cell?

(a) Nucleus
(b) Cytoplasm
(c) Vacuole
(d) Cell membrane

Q48. Part IV of the Indian constitution provides for _____.

(a) Fundamental Duties
(b) Directive Principles of State policy
(c) Fundamental Rights
(d) Union Executive

Q49. Which of the following is not a valid stroke in a swimming competition?

(a) Breast stroke
(b) Front stroke
(c) Leg stroke
(d) Back stroke

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Q50. What was the capital of Vajji Mahajanapada?

(a) Hastinapura
(b) Vaishali
(c) Ujjain
(d) Rajagriha

Q51. Nati is a folk dance of which of the following states?

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

Q52. Under 'SAMRIDDHI 2022-23 (Strengthening & Augmentation of Municipal Revenue for Infrastructure Development in Delhi)', people will be able to pay only the principal amount of the current and pending tax of past _____ years for residential properties.

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

Q53. Those organisms which take food synthesized by plants are called _____.

(a) Phototrophic
(b) Heterotrophs
(c) Autotrophic
(d) Saprotrophs

Q54. "Agricultural Census" is conducted in India at an interval of _____.

(a) six years
(b) five years
(c) four years
(d) ten years

Q55. The forces which work on the surface of the earth are called _____.

(a) frictional forces
(b) endogenic forces
(c) conventional forces
(d) exogenic forces

Q56. In which of the following decades, there was a negative growth rate in Indian population?

(a) 1911 - 1921
(b) 1941 - 1951
(c) 1961 - 1971
(d) 1921 - 1931

Q57. Which among the following Acts established the dual system of control by the British government and the East India Company in India?

(a) Pitt's India Act, 1784
(b) Montague-Chelmsford Reform (Government of India Act), 1919
(c) Charter Act, 1793
(d) Charter Act, 1813

Q58. National Waterway 2 (NW 2) is the Sadiya - Dhubri stretch of the _____ river.

(a) Brahmaputra
(b) Ganga
(c) Son

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(d) Krishna

Q59. In Badminton, the length and width of the doubles court shall be of _____.

(a) 12.20 m × 6.20 m
(b) 13.40 m × 6.10 m
(c) 13.40 m × 5.20 m
(d) 13.20 m × 6.50 m

Q60. Shinzo Abe, who recently died, served as Prime Minister of _____.

(a) North Korea
(b) Japan
(c) South Korea
(d) Thailand

Q61. Which among the famous novels is written by Indian author R. K. Narayan?

(a) The dark room
(b) The Suitable boy
(c) Unaccustomed Earth
(d) Half Girlfriend

Q62. The festival of Navroz or nowroj is celebrated as new year of which community?

(a) Buddhist
(b) Parsi
(c) Sindhi
(d) Jainism

Q63. In national income accounting, GVA stands for _____.

(a) General vesting added
(b) General visited account
(c) Gross value accounting
(d) Gross value added

Q64. As per census 2011, what is the position of Uttar Pradesh with respect to the total population of India?

(a) Fourth
(b) First
(c) Third
(d) Second

Q65. The Brihadeshwara temple at Tanjore was built by _____ rulers.

(a) Chola
(b) Chandella
(c) Pallava
(d) Solanki

Q66. Improve the underlined part of the sentence. Choose 'No improvement' as an answer if the sentence is grammatically correct.

The rabbit was remain stationary to avoid being seen.

(a) No improvement
(b) remain stationary
(c) remained stationary
(d) were remained stationary

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Q67. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

Improved policing/ is vitally but/ not sufficient.

(a) is vitally but
(b) Improved policing
(c) not sufficient.
(d) No error

Q68. Select the most appropriate meaning of the given idiom.

In the groove

(a) To muse on in an aimless manner
(b) Starting to perform very well
(c) Simplify the producers
(d) A widely debated issue

Q69. Select the most appropriate synonym of the given word.

Advantage

(a) Boon
(b) Vital
(c) Unfrock
(d) Vengeance

Q70. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

While persimmons can be / use in pies and tarts, you / can also enjoy them plain.

(a) While persimmons can be
(b) use in pies and tarts, you
(c) No error
(d) can also enjoy them plain.

Q71. Select the most appropriate antonym of the given word.

Reluctant

(a) Loathe
(b) Cagey
(c) Inclined
(d) Abatis

Q72. Fill in the blank with appropriate word.

His place was _____ in the team after he displayed his explosive batting style.

(a) fermented
(b) affected
(c) belittled
(d) cemented

Q73. Improve the underlined part of the sentence. Choose 'No improvement' as an answer if the sentence is grammatically correct.

The cat was lastly see in the backyard.

(a) last saw in
(b) No improvement
(c) last seen in
(d) last see in

Q74. Select the most appropriate word for the given group of words.

A feeling of excitement or happiness

(a) Exhilaration
(b) Desolation

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(c) Passion
(d) Simulation

Q75. Fill in the blank with the most appropriate option.

Don't you be clever with me, boy! I want to know what you're really _____.

(a) on to
(b) up to
(c) in to
(d) up about

Q76. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

It is believed that difficult tasks demand lot of our resources.

(a) It is believed that
(b) No error
(c) difficult tasks demand lot
(d) of our resources.

Q77. Fill in the blank with appropriate option.

The first time that nuclear radiation has been washed off with a _____.

(a) fast shower
(b) quick shower
(c) speedy shower
(d) energetic shower

Q78. Select the most appropriate option to fill in the blank.

The necessity of resisting the _____ demands of the prophets led to the introduction of new rules for distinguishing true and false prophets.

(a) unimpeachable
(b) relentless
(c) irreparable
(d) imperturbable

Q79. Select the correctly spelt word.

(a) Connievence
(b) Conniavance
(c) Connivance
(d) Conivance

Q80. Select the most appropriate word for the given group of words.

Difficult to interpret or understand

(a) Explicable
(b) Emulate
(c) Enigmatic
(d) Endemic

Q81. Select the most appropriate antonym to substitute the bracketed word in the given sentence.

Any book on any subject risks irrelevance or smallness compared to this (behemoth).

(a) Monster
(b) Colossus
(c) Dreadnought
(d) Midget

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Q82. Select the most appropriate meaning of the bracketed idiom in the given sentence.

I think I might take (French leave) this afternoon and go to the cinema.

(a) To try hard
(b) Absence without permission
(c) To be inconsistent
(d) To have a slight encounter

Q83. Four sentences are given, out of which three have spelling errors. Choose the sentence with all correctly spelt words.

(a) They superseded the old statute with a new one.
(b) They will be celebrating their twelth anniversary this April.
(c) He had no sense of rhythme whatsoever.
(d) I wrote her a reciept for the money.

Q84. Select the most appropriate synonym to substitute the bracketed word in the given sentence.

From start to finish, the treatment of the defendants was a (travesty) of legal due process.

(a) magic
(b) mockery
(c) tribute
(d) slurry

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

He had to brake suddenly to avoiding hitting the deer.

(a) No improvement
(b) avoided hitting
(c) avoided hits
(d) avoid hitting

Directions

In the following passage some of the words have been deleted. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

Pumpkins contain high levels of (1) _____. These are molecules that fight harmful free radicals, a (2) _____ of unstable molecule that can sometimes (3) _____ damage to our cells, which may cause ageing and contribute to (4) _____ diseases over time. While some antioxidants occur (5) _____ in our bodies, others we get from fruits and vegetables.

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

(a) sentiments
(b) atoms
(c) antioxidants
(d) supplements

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

(a) pattern
(b) subject
(c) type
(d) term

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

(a) treats
(b) plan
(c) fall
(d) cause

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

(a) spotted
(b) various
(c) neutral
(d) references

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

(a) casually
(b) naturally
(c) systematically
(d) informally

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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