



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

RPF SI 2018 Question Paper PDF (19-Dec-2018) (Shift 3)

Total Time: 1 Hour : 30 Minute

Total Marks: 120

Instructions

1. Test will auto submit when the Time is up.
2. The Test comprises of multiple choice questions (MCQ) with one correct answers.
3. The clock in the top right corner will display the remaining time available for you to complete the examination.

Navigating & Answering a Question

1. The answer will be saved automatically upon clicking on an option amongst the given choices of answer.
2. To deselect your chosen answer, click on the clear response button.
3. The marking scheme will be displayed for each question on the top right corner of the test window.

Your Personal Exams Guide

General Awareness

1. A deep valley bounded by steep and rocky walls is called _____. (+1, -0.33)

- a. Rock
- b. Rocky bend
- c. Glacier
- d. Gorge

2. What is the ionization constant of formic acid (HCOOH)? (+1, -0.33)

- a. 1.2×10^{-4}
- b. 1.4×10^{-4}
- c. 1.8×10^{-4}
- d. 1.6×10^{-4}

3. Can the Rajya Sabha be dissolved? (+1, -0.33)

- a. Never
- b. At the discretion of the President
- c. Yes, every three years
- d. Yes, during an emergency

4. Who administers the oath of office to the President of India? (+1, -0.33)

- a. Speaker of the Lok Sabha
- b. Vice President
- c. Chief Justice of India
- d. Prime Minister

5. In which sport is the term 'hat-trick' used? (+1, -0.33)

- a. Cricket
- b. Golf
- c. Hockey
- d. Football

6. What is the IUPAC name of malonic acid? (+1, -0.33)

- a. Propanedioic acid
- b. Hexanedioic acid
- c. Ethanedioic acid
- d. Methanoic acid

7. By the States Reorganisation Act of 1956, the number of states in the country was reduced from 27 to _____. (+1, -0.33)

- a. 15
- b. 19

c. 21

d. 14

8. What does the thyroid gland secrete? (+1, -0.33)

a. Melanocyte-stimulating hormone

b. Calcitonin

c. Oxytocin

d. Vasopressin

9. Till when did the first National Emergency, declared in October 1962, remain in force? (+1, -0.33)

a. 1977

b. 1965

c. 1968

d. 1966

10. Kalaripayattu is: (+1, -0.33)

a. An embroidery art of Uttar Pradesh

b. A folk dance of West Bengal

c. A folk music of Rajasthan

d. A martial art and art of warfare of Kerala

11. Who is the father of microbiology? (+1, -0.33)

- a. Hippocrates
 - b. Antonie van Leeuwenhoek
 - c. R. Misra
 - d. S. R. Kashyap
-

12. Which of the following countries does not share a border with India? (+1, -0.33)

- a. Nepal
 - b. China
 - c. Bangladesh
 - d. Hong Kong
-

13. In which state is the Kudankulam Nuclear Power Plant located? (+1, -0.33)

- a. Tamil Nadu
 - b. Andhra Pradesh
 - c. Karnataka
 - d. Kerala
-

14. The capital of Cambodia is _____. (+1, -0.33)

- a. Gaborone

- b. Santiago
 - c. Phnom Penh
 - d. Prague
-

15. Who is the Chairman of the 14th Finance Commission? (+1, -0.33)

- a. Shri C. Rangarajan
 - b. Shri N. K. Singh
 - c. Dr. Y. V. Reddy
 - d. Dr. Vijay L. Kelkar
-

16. The formula to find surface tension is ----- (+1, -0.33)

- a. Length / Force
 - b. Force $\times$ Length
 - c. Force / Length
 - d. Force $\times$ Distance
-

17. The capital of Sikkim is ----- (+1, -0.33)

- a. Bhopal
- b. Gangtok
- c. Imphal

d. Kavaratti

18. _____ are unicellular elongated structures found in epidermal cells that absorb water and minerals from the soil. (+1, -0.33)

- a. Root hairs
 - b. Guard cells
 - c. Stomata
 - d. Epidermis
-

19. Where is the headquarters of the 'Steel Authority of India Limited' (SAIL)? (+1, -0.33)

- a. Mumbai
 - b. Hyderabad
 - c. New Delhi
 - d. Kolkata
-

20. Which of the following players is not related to hockey? (+1, -0.33)

- a. Rory McIlroy
 - b. Juan Martin Lopez
 - c. Bharat Chhetri
 - d. Matias Vila
-

21. The water level below the ground surface is called _____. (+1, -0.33)

- a. Crust
 - b. Basin
 - c. Water table
 - d. Watershed
-

22. Which Indian state has its own separate constitution? (+1, -0.33)

- a. Nagaland
 - b. Sikkim
 - c. Jammu and Kashmir
 - d. Goa
-

23. In which country does the river 'Mississippi' flow? (+1, -0.33)

- a. Austria
 - b. United Kingdom
 - c. United States of America
 - d. Italy
-

24. Where is the sculpture depicting Ravana shaking Mount Kailash found? (+1, -0.33)

- a. Junagadh Caves

- b. Ellora Caves
 - c. Ajanta Caves
 - d. Barabar Caves
-

25. Who wrote the book 'Ace Against Odds'? (+1, -0.33)

- a. Sunita Rao
 - b. Sania Mirza
 - c. Nirupama Sanjeev
 - d. Rashmi Chakraborty
-

26. Who is the first citizen of India? (+1, -0.33)

- a. Chief Justice of India
 - b. President of India
 - c. Prime Minister of India
 - d. Chief of the Indian Army
-

27. Which of the following Indian sportspersons received the Rajiv Gandhi Khel Ratna Award in 2018? (+1, -0.33)

- a. Rohit Sharma and P. V. Sindhu
- b. Virat Kohli and P.V. Sindhu
- c. Saikhom Mirabai Chanu and Virat Kohli

d. Saina Nehwal and Rohit Sharma

28. Where did the 'Pagal Panthi Satyagraha' take place? (+1, -0.33)

- a. Bihar
 - b. Maharashtra
 - c. Bengal
 - d. Gujarat
-

29. From when did the Constitution of India come into force? (+1, -0.33)

- a. 1 January, 1950
 - b. 26 January, 1950
 - c. 26 November, 1949
 - d. 26 January, 1949
-

30. At which of the following places was the 'Poona Sarvajanik Sabha' founded? (+1, -0.33)

- a. Jamshedpur
 - b. Pune
 - c. Patna
 - d. Pushkar
-

31. What is the atomic number of the element aluminium? (+1, -0.33)

- a. 15
- b. 17
- c. 13
- d. 19

32. Where did the 'Songram Sangma Revolt' take place? (+1, -0.33)

- a. Assam
- b. Rajasthan
- c. Delhi
- d. West Bengal

33. Which resolution was passed at the national session of the Congress held at Lahore in December 1929? (+1, -0.33)

- a. Swadeshi Resolution
- b. Draft Resolution
- c. Purna Swaraj Resolution
- d. National Planning Resolution

34. In which year was a 'No-Confidence Motion' first moved in the Lok Sabha? (+1, -0.33)

- a. 1960
 - b. 1973
 - c. 1962
 - d. 1963
-

35. Which of the following served as President for two consecutive terms? (+1, -0.33)

- a. Dr. Rajendra Prasad
 - b. Dr. S. Radhakrishnan
 - c. Shri V.V. Giri
 - d. A.P.J. Abdul Kalam
-

36. In which sport is the term 'freestyle' used? (+1, -0.33)

- a. Wrestling
 - b. Chess
 - c. Hockey
 - d. Tennis
-

37. When was the Hindu Widows' Remarriage Act passed? (+1, -0.33)

- a. 1627 AD
- b. 1856 AD

c. 1743 AD

d. 1568 AD

38. What is the nickname of Anil Kumble? (+1, -0.33)

a. Jammy

b. Jumbo

c. Flying Man

d. Torpedo

39. In which ocean is the Java Trench located? (+1, -0.33)

a. Pacific Ocean

b. Arctic Ocean

c. Atlantic Ocean

d. Indian Ocean

40. When did the Geographical Indications of Goods (Registration and Protection) Act come into effect? (+1, -0.33)

a. 1991

b. 2009

c. 1999

d. 1986

41. The full form of 'SLR' is- (+1, -0.33)

- a. Statutory Limited Ratio
 - b. Standard Liquidity Ratio
 - c. Statutory Liquidity Ratio
 - d. Security Liquidity Ratio
-

42. The Indian Constitution provides _____. (+1, -0.33)

- a. None of these
 - b. Single citizenship
 - c. Both
 - d. Dual citizenship
-

43. By whom was the Hathigumpha inscription engraved? (+1, -0.33)

- a. Bimbisara
 - b. Ashoka
 - c. Kharavela
 - d. Harsha
-

44. In the SI system, the multiple 10^{-15} is denoted by the prefix _____. (+1, -0.33)

- a. Atto

- b. Femto
 - c. Yotta
 - d. Zepto
-

45. What is the name of the currency of Iran? (+1, -0.33)

- a. Iranian Yen
 - b. Iranian Rial
 - c. Iranian Dinar
 - d. Iranian Dollar
-

46. What is the distance between the Sun and the planet Venus? (+1, -0.33)

- a. 108.2 million km
 - b. 129.2 million km
 - c. 69.2 million km
 - d. 58.2 million km
-

47. Who wrote the book 'Brihat Samhita'? (+1, -0.33)

- a. Pingala
- b. Bhaskara
- c. Madhava

d. Varahamihira

48. In the foreign exchange market, what is the situation called when the value of the domestic currency starts falling in comparison to a foreign currency? (+1, -0.33)

- a. Depreciation
 - b. Cost escalation
 - c. Revaluation
 - d. Amortisation
-

49. Who wrote the book 'Hutom Pyanchar Naksha'? (+1, -0.33)

- a. Kaliprasanna Singha
 - b. Madhusudan Dutt
 - c. Raja Radhakanta Deb
 - d. Rajeev Verma
-

50. By whom was the neutron discovered? (+1, -0.33)

- a. E. O. Lawrence
- b. Niels Bohr
- c. James Chadwick
- d. S. N. Bose

General Intelligence and Reasoning

51. Read the given information carefully and answer the questions related to it. (+1, -0.33)

5 children P, Q, R, S and T are sitting in a row facing north. All the children like different kinds of fruits, namely apple, banana, orange, mango and grapes.

- i. The child who likes bananas is sitting in the middle of the row.
- ii. R likes mangoes.
- iii. The children who like apples and oranges are sitting at the two ends of the row.
- iv. The child who likes oranges is not sitting next to R.
- v. T is third to the right of R.
- vi. P does not like bananas and is not sitting next to T.
- vii. Q does not like grapes.

Who is sitting between the children who like bananas and oranges?

- a. The one who likes grapes
- b. P
- c. The one who likes mangoes
- d. Q

52. In this question, the relationship between different letters is given in the statement. Two conclusions related to the statement are given. (+1, -0.33)

Statement: $B > C \leq D > E = F$

Conclusions:

i) $D < F$

ii) $B > E$

Choose the appropriate one from the following options.

A. Only conclusion i follows.

B. Only conclusion ii follows.

C. Either conclusion i or ii follows.

D. Neither conclusion i nor ii follows.

E. Both conclusions i and ii follow.

a. A

b. E

c. B

d. D

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53. Based on the logic used in the first pair, choose the replacement for the question mark in the second pair from the options. (+1, -0.33)

Burrow:Rabbit::Sty: ??

a. Cock

b. Pig

c. Goat

d. Bear

54. Select the water image of the given figure from the options.

(+1, -0.33)

LIGHT

LIGHT

a.

LIGHT

b.

LIGHT

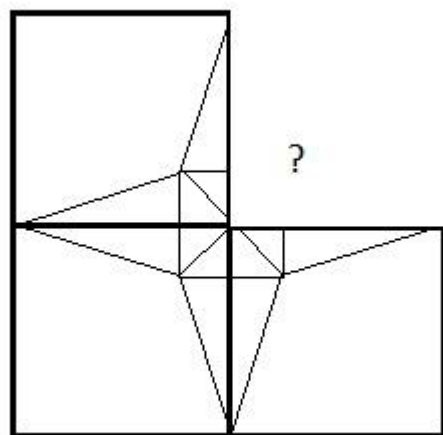
c.

THOI

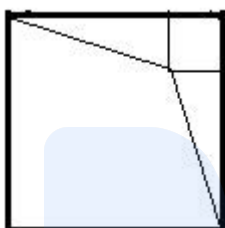
d.

55. Select the correct figure from the options that completes the pattern of the given figure:

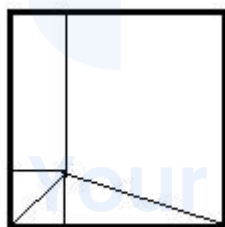
(+1, -0.33)



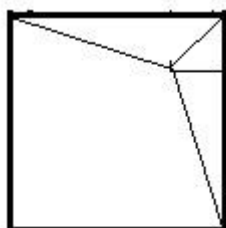
a.

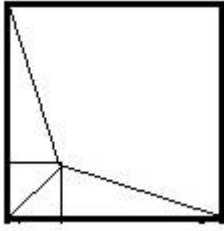


b.



c.





d.

56. Find the next number in the following series:

(+1, -0.33)

143, 155, 176, 206, 245, ?

a. 278

b. 293

c. 290

d. 286

57. Find the next number in the following series:

(+1, -0.33)

486, 487, 491, 500, 516, ?

a. 532

b. 539

c. 456

d. 541

58. In this question, a statement is given followed by two conclusions numbered i and ii. You have to take the statement to be true, then

(+1, -0.33)

consider both conclusions together and decide which of them logically follows beyond any doubt from the information given in the statement.

Statement: Every person living in Madrid must keep a dog. John lives in Madrid.

Conclusions:

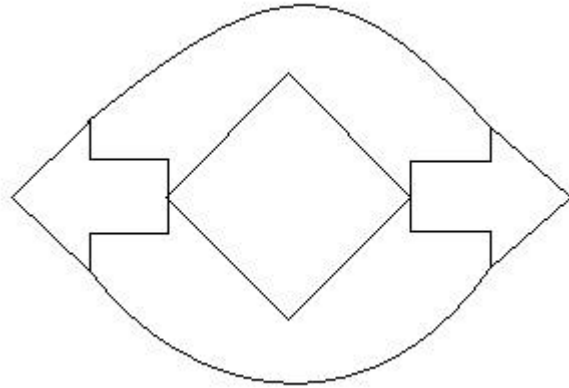
- i). John has a dog.
- ii). Amy, who is a resident of Madrid, does not have a dog.

Choose the most appropriate one from the following options:

- A. Only conclusion i follows.
- B. Only conclusion ii follows.
- C. Either conclusion i or ii follows.
- D. Neither conclusion i nor ii follows.
- E. Both conclusions i and ii follow.

- a. D
- b. A
- c. E
- d. C

59. How many straight lines are there in the given figure? (+1, -0.33)



- a. 23
- b. 20
- c. 15
- d. 18

60. Four of the five words given below are alike in some way and hence form a group. Which one of them does not belong to this group? (+1, -0.33)

Jupiter, Sun, Neptune, Mars, Earth

- a. Jupiter
- b. Sun
- c. Neptune
- d. Mars

61. Read the given information carefully and answer the questions that follow. (+1, -0.33)

5 children P, Q, R, S and T are sitting in a row facing north. Each child likes a different fruit, namely apple, banana, orange, mango and grapes.

- i. The child who likes banana is sitting in the middle of the row.
- ii. R likes mango.
- iii. The children who like apple and orange are sitting at the two ends of the row.
- iv. The child who likes orange is not sitting next to R.
- v. T is third to the right of R.
- vi. P does not like banana and is not sitting next to T.
- vii. Q does not like grapes.

Who likes grapes?

- a. Q
- b. P
- c. T
- d. S

prepp

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62. If a mirror is placed on the shaded line, which will be the correct image of the given figure? (+1, -0.33)



FRANCE

a.

FRANCE

b.

FRANCE

c.

FRANCE

d.

63. In this question, two statements are given followed by three conclusions. You have to take the statements to be true, consider the conclusions together and decide which of them logically follows beyond any doubt from the information given in the statements. (+1, -0.33)

Statements: All cats are dogs. All animals are dogs.

Conclusions:

- i. Some dogs are cats
 - ii. Some cats are animals
 - iii. No cat is an animal
- a. Only i and either ii or iii
 - b. Only i
 - c. Only i and ii

d. Only ii and iii

64. In this question, a passage and a statement related to it are given. Read the passage carefully and evaluate the statement on its basis. (+1, -0.33)

The vegetation of Australia can be divided into various botanical groups. Rainfall and temperature are the major factors that determine the vegetation of any region. Most of the plants found in Australia are adapted to its dry climate.

The main vegetation of Australia is the grassland found on hilly mounds (hummocks). These grasslands are found mainly in Western Australia, South Australia and the northern regions of Australia. These are grass-dominated areas where trees and plants are found in very small numbers or not at all. 'Hummock' means a small natural hillock. These grasslands make up one-fourth of the vegetation there. The main vegetation of these grasslands is various grasses with spiky leaves.

Statement:

Trees with spiky leaves are found in the 'hummock' grasslands?

Select the most appropriate option from the following.

- A - The statement is definitely true.
- B - The statement is probably true.
- C - The statement cannot be evaluated.
- D - The statement is definitely false.

- a. C
- b. D
- c. B

d. A

65. Find the next number in the following series:

(+1, -0.33)

216, 219, 214, 221, 210, ?

a. 212

b. 231

c. 197

d. 223

66. Read the following statements and answer the question based on them.

(+1, -0.33)

A@B means A is the mother of B

A#B means A is the father of B

A\$B means A is the brother of B

A%B means A is the sister of B

According to the expression $P@Q@R\%S$, if S is a male, how is S related to P?

a. Granddaughter

b. Either 2 or 3

c. Grandson

d. Grandfather

67. In this question, three statements showing the relationship between letters are given, followed by three conclusions i, ii and iii. Taking the statements to be true, decide which conclusion is definitely true with respect to the statements. (+1, -0.33)

Statements: $P \geq Q$, $Q > R$, $R = S$

Conclusions:

i) $S < Q$

ii) $P > R$

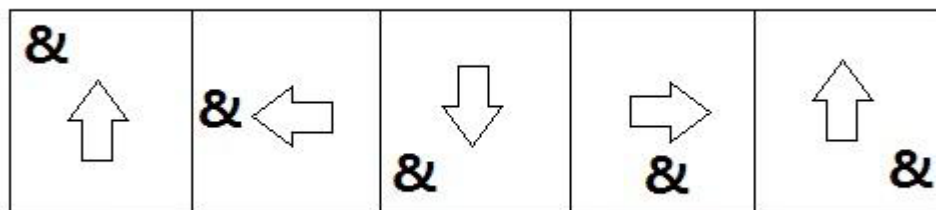
iii) $P > S$

- a. All conclusions are true
- b. Only ii and iii
- c. Only i and iii
- d. Only i

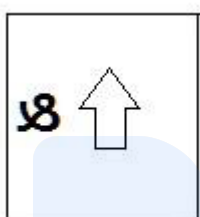
68. P is the father-in-law of M, whose wife is N. P is the grandfather of O, who is the daughter of N. M is the grandfather of Q, whose mother is O. How is P related to Q? (+1, -0.33)

- a. Uncle
- b. Father-in-law
- c. Grandfather
- d. Great grandfather

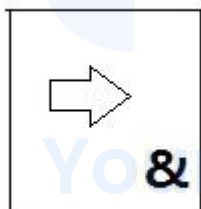
69. Select the appropriate figure from the options that will come next in the given series. (+1, -0.33)



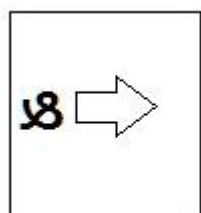
a.

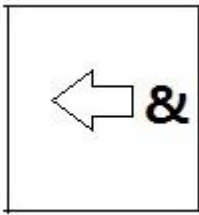


b.



c.





d.

70. In this question, two statements are given followed by two conclusions i and ii. You have to take the statements to be true, consider both conclusions together and decide which of them logically follows beyond any doubt from the information given in the statements. (+1, -0.33)

Statements: Some trees are flags. Some flags are small boats.

Conclusions:

- i). All trees are flags.
- ii). Some trees are small boats.

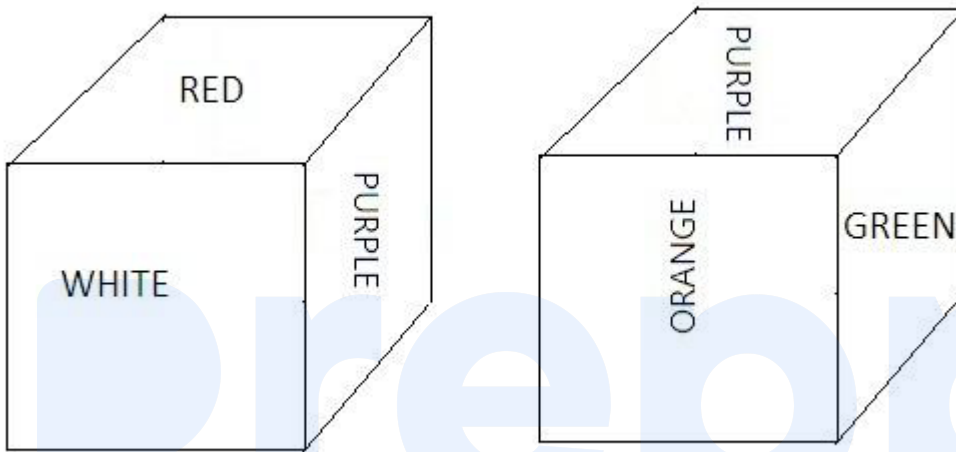
Select the most appropriate option from the following:

- A. Only conclusion i follows.
- B. Only conclusion ii follows.
- C. Either conclusion i or ii follows.
- D. Neither conclusion i nor ii follows.
- E. Both conclusions i and ii follow.

- a. D
- b. A
- c. E

d. B

71. The faces of a die, shown in the figure below, are painted Purple, Red, White, Green, Gray and Orange. Which colour is painted on the face opposite to the Purple face? (+1, -0.33)



- a. Gray
b. Orange
c. Green
d. Red

72. Read the given information carefully and answer the questions that follow. (+1, -0.33)

5 children P, Q, R, S and T are sitting in a row facing north. Each child likes a different fruit, namely apple, banana, orange, mango and grapes.

- i. The child who likes banana is sitting in the middle of the row.

- ii. R likes mango.
- iii. The children who like apple and orange are sitting at the two ends of the row.
- iv. The child who likes orange is not sitting next to R.
- v. T is third to the right of R.
- vi. P does not like banana and is not sitting next to T.
- vii. Q does not like grapes.

Which of the statements given in the options is incorrect with respect to the above arrangement?

- a. R is third to the right of T
- b. S likes grapes
- c. T likes orange
- d. Q is sitting between the children who like mango and grapes

-
73. Based on the logic used in the first pair, choose the substitute for the question mark in the second pair from the options. (+1, -0.33)

Matricide: Mother::Xenocide: ??

- a. Family
 - b. Native
 - c. Foreigner
 - d. Father
-

74. In this question, a passage and a statement related to it are given. Read the passage carefully and evaluate the statement on its basis. (+1, -0.33)

The vegetation of Australia can be divided into various botanical groups. Rainfall and temperature are the major factors that determine the vegetation of any region. Most of the plants found in Australia are adapted to its dry climate.

The main vegetation of Australia is the grassland found on hilly mounds (hummocks). These grasslands are found mainly in Western Australia, South Australia and the northern regions of Australia. These are grass-dominated areas where trees and plants are found in very small numbers or not at all. 'Hummock' means a small natural hillock. These grasslands make up one-fourth of the vegetation there. The main vegetation of these grasslands is various grasses with spiky leaves.

Statement: Temperature plays the role of an important factor in determining the vegetation of a region.

Select the most appropriate option from the following.

- A - The statement is definitely true.
- B - The statement is probably true.
- C - The statement cannot be evaluated.
- D - The statement is definitely false.

- a. A
- b. C
- c. B
- d. D

75. Four of the following five letters are alike in a certain way and hence form a group. Which one of them does not belong to that group? (+1, -0.33)

L, Y, K, M, E

a. K

b. Y

c. M

d. E

76. Pointing to a woman, a boy said, "She is the mother of my mother's husband's brother". How is that woman's husband related to the boy? (+1, -0.33)

a. Grandfather

b. Father-in-law

c. Father

d. Uncle

77. In a certain code language, TEMPER is coded as JBQOBM. How will REVIEW be coded in the same language? (+1, -0.33)

a. UHYLHZ

b. BEOTEF

c. UYLHYZ

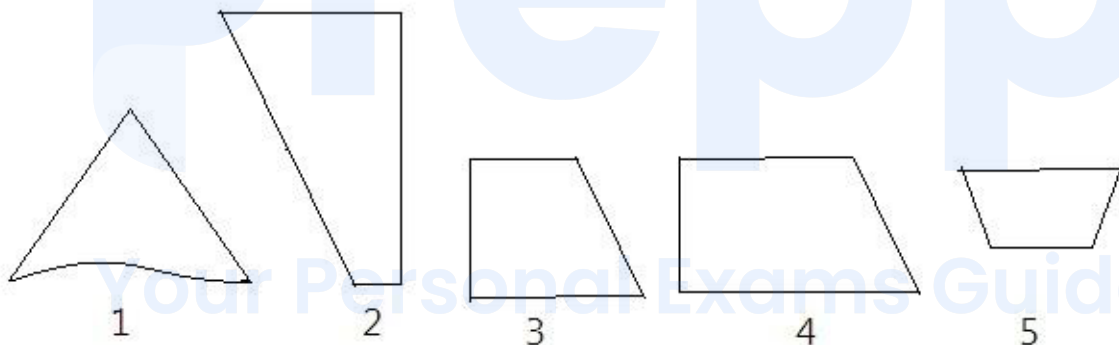
d. SBOTBF

78. Based on the logic used in the first pair, choose the substitute for the question mark in the second pair from the options. (+1, -0.33)

1496:20::2087: ??

- a. 27
- b. 15
- c. 19
- d. 17

79. Select the correct option that forms a complete square (3 out of the 5 figures are given below): (+1, -0.33)



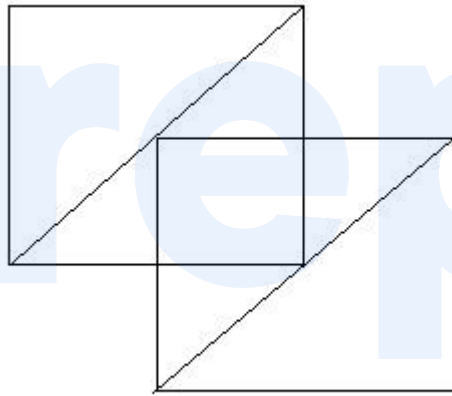
- a. 2, 3, 4
- b. 2, 4, 5
- c. 1, 3, 4
- d. 1, 4, 5

80. Find the next number in the following series: (+1, -0.33)

31, 33, 69, 211, 849, ?

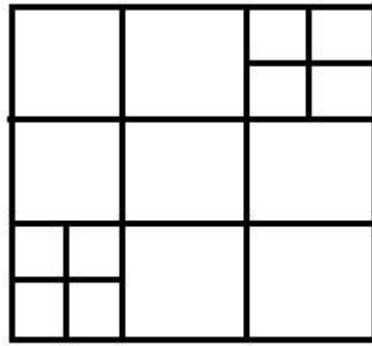
- a. 3401
- b. 3846
- c. 4251
- d. 4238

81. How many right-angled triangles can be formed from the given figure? (+1, -0.33)



- a. 4
- b. 10
- c. 8
- d. 15

82. How many squares are there in the given figure? (+1, -0.33)



- a. 16
- b. 28
- c. 22
- d. 30

83. In a certain code language, BORDER is coded as YLIWVI. How will BATTLE be coded in that language? (+1, -0.33)

- a. YGSSOV
- b. YGZZVO
- c. YSGGVO
- d. YZGGOV

84. Select the option that will replace the question mark in the second pair, based on the logic used in the first pair. (+1, -0.33)

LK:NM::XT: ??

- a. UV

b. WX

c. ZV

d. EX

85. Four of the following five terms are alike in some way and hence form a group. Which one does not belong to that group? (+1, -0.33)

NLJ, TRP, XVT, HFD, IMF

a. NLJ

b. HFD

c. IMF

d. TRP

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Arithmetic

86. A person cycling at a speed of 24 kmph reaches college from the hostel 11 minutes late. If he cycled at a speed of 30 kmph, he would reach 8 minutes early. Find the distance between the hostel and the college. (+1, -0.33)
- a. 24 km
 - b. 28 km
 - c. 38 km
 - d. 36 km
-
87. On selling an article for ₹1741, the profit obtained is 11% more than the loss obtained on selling the same article for ₹897. Find the cost price of the article. (+1, -0.33)
- a. ₹1297
 - b. ₹1486
 - c. ₹1134
 - d. ₹1032
-
88. A square piece of glass with an area of 576 cm^2 is placed on top of a table. The width between the edge of the glass piece and the edge of the table is 7 cm. Find the length of the table. (+1, -0.33)
- a. 38 cm
 - b. 28 cm

c. 40 cm

d. 32 cm

89. Directions: Study the following bar graph and answer the question based on it. (+1, -0.33)

The sales of books (in thousands) of the five branches (C1, C2, C3, C4 and C5) of a publishing company in two consecutive years, 2010 and 2011, are given.

Find the average sales (in thousands) of all the branches in the year 2010.



a. 65

b. 66

c. 63

d. 64

90. A shopkeeper earns a profit of 12.5% by selling a product for ₹522. Half of the cost price of that article will be equal to how many rupees? (+1, -0.33)

- a. ₹196
- b. ₹284
- c. ₹232
- d. ₹464

91. A shopkeeper marks the price of an article by increasing its cost price by 33% and then offers a discount of 33% on its sale. Find the overall profit or loss percentage. (+1, -0.33)

- a. 9.96% profit
- b. 10.89% loss
- c. 8.64% loss
- d. 11.24% profit

92. A bulb manufacturing company found that 11% of its total production turned out to be defective. If the number of good products is 4984, find the number of defective products. (+1, -0.33)

- a. 616
- b. 456
- c. 676
- d. 586

93. The salaries of Vino, Viji and Veenu are in the ratio 9:11:13. If Veenu gets ₹200 more than Vino, what is the salary of Viji (in ₹)? (+1, -0.33)

- a. 650
- b. 250
- c. 550
- d. 450

94. In how many ways can 540 mobiles be distributed equally among the students of a class? (+1, -0.33)

- a. 14
- b. 20
- c. 16
- d. 24

95. The station master decided to increase the length of a rectangular digital board by 4% and decrease its breadth by 4%. Find the net change in the area of the board. (+1, -0.33)

- a. 0.09% increase
 - b. 0.09% decrease
 - c. 0.16% decrease
 - d. 0.16% increase
-

96. The ratio of the time taken by Kairo and David to cover a distance of 1000 km is 13:21. Find the ratio of their speeds. (+1, -0.33)

- a. 21:13
- b. 13:22
- c. 13:21
- d. 22:13

97. In a subsidiary project of an English-based company, there are 507 male and 507 female workers. The average productivity of all the employees is 57 calls/day. If a male worker achieves 57 calls/day, what will be the number of calls achieved per day by the female employees? (+1, -0.33)

- a. 53
- b. 59
- c. 55
- d. 57

98. A train takes 59 seconds to cross a 396 m long bridge. If the same train takes 23 seconds to cross a signboard, find the length of the train. (+1, -0.33)

- a. 253 m
- b. 273 m
- c. 184 m
- d. 196 m

99. A gift box contains 10 bangles. The average weight of the first 4 bangles is 33 grams and the average weight of the remaining 6 bangles is 34 grams. Find the overall average weight (in grams) of all the bangles. (+1, -0.33)

- a. 33.6
- b. 33.4
- c. 33
- d. 34

100. If the radius of a circle is made 7 times, how many times its previous circumference will its new circumference become? (+1, -0.33)

- a. 6
- b. 7
- c. 9
- d. 8

101. Ganguly distributes 450 gifts among 4 children. The gifts received by the first child, twice the gifts received by the second child, three times the gifts received by the third child and four times the gifts received by the fourth child are all equal. How many gifts did the fourth child receive? (+1, -0.33)

- a. 216
- b. 34
- c. 54

d. 108

102. Find the number of trailing zeros in $98!$. (+1, -0.33)

a. 20

b. 24

c. 18

d. 22

103. Turlin scores 65 out of 80 in French, 75 out of 100 in English, 45 out of 70 in Spanish and 25 out of 50 in Japanese. Find the overall percentage of marks obtained by him. (+1, -0.33)

a. 80%

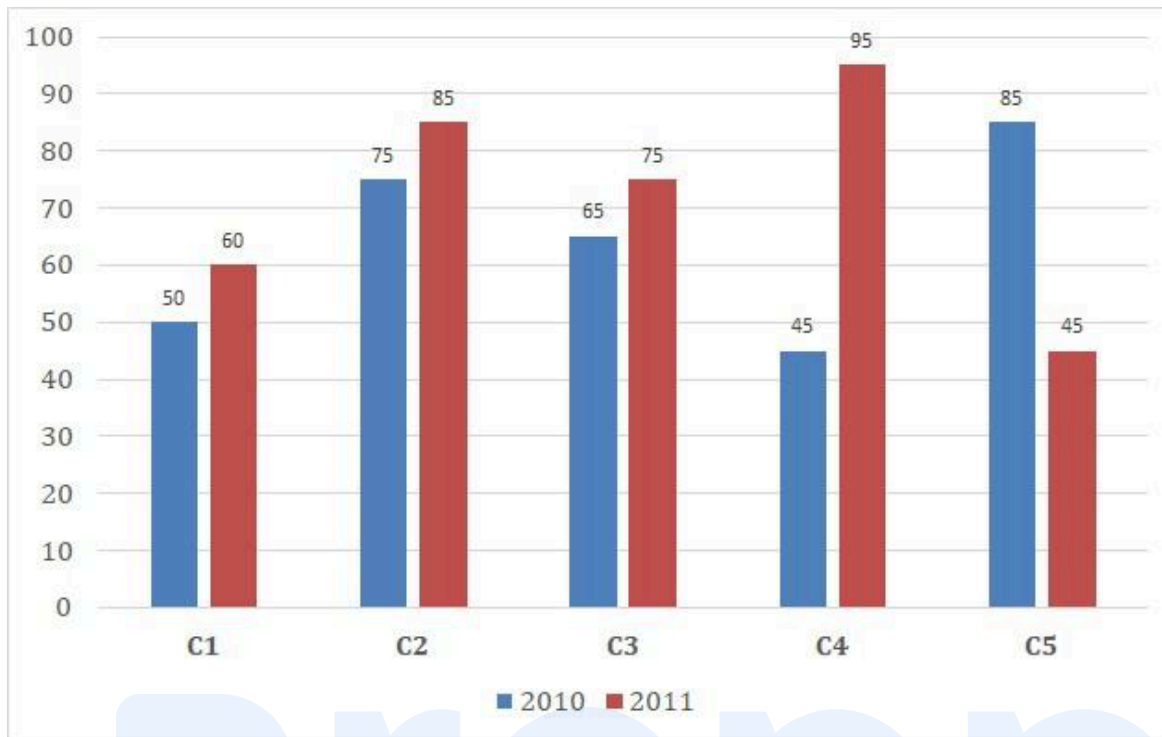
b. 70%

c. 90%

d. 60%

104. Directions: Study the following bar graph and answer the question based on it. (+1, -0.33)

The sales of books (in thousands) of five branches (C1, C2, C3, C4 and C5) of a publishing company in two consecutive years 2010 and 2011 are given. Find the ratio of the total sales of branch C2 in both years to the total sales of branch C4 in both years.



- a. 8:9
- b. 7:8
- c. 8:7
- d. 9:8

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105. A bag contains different types of old coins in the ratio 12:11:13, whose values are ₹3, ₹4 and ₹5 respectively. If the total value of the coins is ₹580, what is the total number of ₹3 coins?

(+1, -0.33)

- a. 44
- b. 50
- c. 46
- d. 48

106. Simplify:

(+1, -0.33)

$$\sqrt{16.81} + \sqrt{67.24} \div 2 = ?$$

- a. 8.4
- b. 8
- c. 8.2
- d. 8.1

107. A cube with a diagonal of $8\sqrt{3}$ cm is melted to form a cuboid. What will be its height if the length of the cuboid equals the side of the cube and the breadth of the cuboid is 4 cm?

(+1, -0.33)

- a. 12 cm
- b. 18 cm
- c. 16 cm
- d. 14 cm

108. Golin, walking at $\frac{7}{8}$ of her usual speed, covers a certain distance and takes 20 minutes more than the usual time. Calculate the usual time taken to cover that distance.

(+1, -0.33)

- a. 160 minutes
- b. 90 minutes
- c. 120 minutes
- d. 140 minutes

109. A person travels along the sides of an equilateral triangular field at speeds of 36 kmph, 30 kmph and 45 kmph. Find his average speed. (+1, -0.33)

- a. 32 kmph
 - b. 36 kmph
 - c. 30 kmph
 - d. 24 kmph
-

110. Find the product of two numbers whose LCM is 45 and HCF is 10. (+1, -0.33)

- a. 450
 - b. 400
 - c. 550
 - d. 350
-

111. At compound interest, a sum becomes twice itself in 3 years. In how many years will it become 32 times itself? (+1, -0.33)

- a. 16
 - b. 12
 - c. 15
 - d. 14
-

112. ₹4800 is invested at a simple interest rate of 8% per annum. If the amount (+1, -0.33) is withdrawn after 5 years and half of it is invested in the share market, what is the remaining amount (in ₹)?

- a. 2240
- b. 3360
- c. 3840
- d. 4420

113. The average weight of 97 notebooks kept in a box is 9.7 kg. On placing 1 (+1, -0.33) more notebook in the box, the average weight becomes 9.8 kg. Find the weight of the new notebook.

- a. 18.7 kg
- b. 19.5 kg
- c. 19.1 kg
- d. 18.3 kg

114. Simplify: (+1, -0.33)

$$5 \div 5^{-2} + \sqrt{25} - \sqrt{121} = ?$$

- a. 143
- b. 132
- c. 121
- d. 119

115. Simplify:

(+1, -0.33)

$$((5^4)^2 \times \frac{1}{125^2}) \times 5 + 12 = ?$$

- a. 145
- b. 125
- c. 132
- d. 137

116. The difference between the compound interest and the simple interest earned on the same sum invested for two years at the same rate of interest is ₹36. If the rate of interest is 4% per annum, calculate the sum invested (in ₹).

(+1, -0.33)

- a. 20500
- b. 23850
- c. 16750
- d. 22500

117. When a number is divided by 54, the remainder is 19. What remainder will be obtained when the same number is divided by 27?

(+1, -0.33)

- a. 23
- b. 15
- c. 21

d. 19

118. Simplify:

(+1, -0.33)

$$\frac{1}{10} \div \frac{1}{10} \div \frac{1}{10} \div \frac{1}{10} \div \frac{1}{10} = ?$$

a. 800

b. 1000

c. 1200

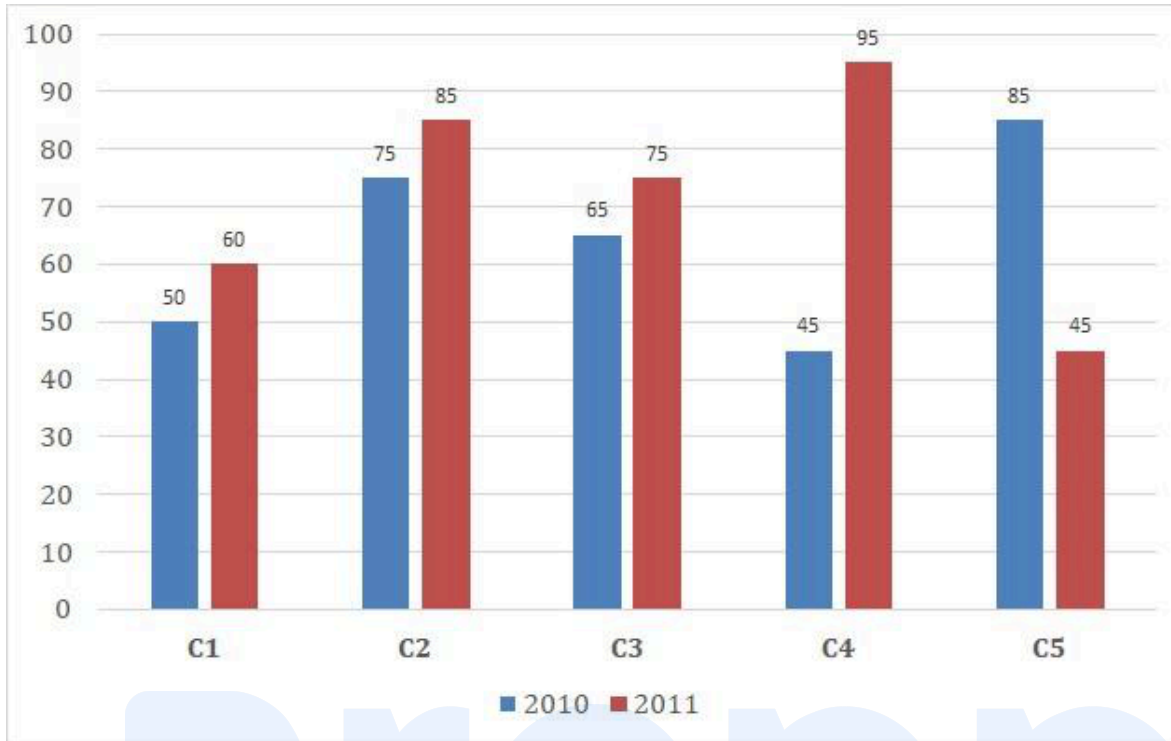
d. 900

119. Directions: Study the following bar graph and answer the question based on it.

(+1, -0.33)

The sales of books (in thousands) of five branches (C1, C2, C3, C4 and C5) of a publishing company in two consecutive years 2010 and 2011 are given. Find the combined total sales (in thousands) of branches C1, C3 and C5 of the company in both years.

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- a. 360
- b. 390
- c. 380
- d. 370

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120. Steve donates 13% of his salary to an organisation for the visually impaired, 14% to an orphanage and 16% to an organisation for the differently abled, and gives 12% of his salary as help in setting up a medical camp. He deposits the remaining ₹25380 in the bank for monthly expenses. How much does he donate for the medical camp?

(+1, -0.33)

- a. ₹8468
- b. ₹5754
- c. ₹6768

d. ₹5457

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