



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 1)

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. What is the atomic number of the element Gallium? (+1, -0.33)
- a. 31
 - b. 34
 - c. 44
 - d. 45
-
2. Who was the Chairman of the 12th Finance Commission? (+1, -0.33)
- a. Dr. Vijay L. Kelkar
 - b. Dr. Y. V. Reddy
 - c. Shri N. K. Singh
 - d. Shri C. Rangarajan
-
3. Who propounded the 'Uncertainty' principle? (+1, -0.33)
- a. Werner Heisenberg
 - b. R.A. Millikan
 - c. S. N. Bose
 - d. Isaac Newton
-
4. Which of the following is NOT a World Heritage Site included under UNESCO? (+1, -0.33)

- a. Elephanta Caves
 - b. Rani ki Vav
 - c. Humayun's Tomb
 - d. Chand Minar
-

5. What is the nickname of Adam Gilchrist? (+1, -0.33)

- a. Broad Man
 - b. Punisher
 - c. Churchy
 - d. God of Cricket
-

6. The Eighth Schedule of the Indian Constitution is related to- (+1, -0.33)

- a. Fundamental Rights
 - b. Official Indian languages
 - c. Fundamental Duties
 - d. Laws beyond the jurisdiction of courts
-

7. Can "a person become a member of both Houses"? (+1, -0.33)

- a. Yes
- b. Yes, during a financial emergency

- c. Yes, during a national emergency
 - d. No
-

8. The Supreme Commander of the Indian Armed Forces is- (+1, -0.33)

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

9. In which of the following states did the Indigo Revolt take place? (+1, -0.33)

- a. Assam
 - b. Bihar
 - c. West Bengal
 - d. Maharashtra
-

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

- a. 245.9 million km
 - b. 197.9 million km
 - c. 227.9 million km
 - d. 210.9 million km
-

11. To whom does the President of India address his resignation? (+1, -0.33)

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

12. The capital of Ethiopia is- (+1, -0.33)

- a. Addis Ababa
 - b. Accra
 - c. Phnom Penh
 - d. Kuala Lumpur
-

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

- a. Italy
 - b. China
 - c. France
 - d. England
-

14. Which of the following players is NOT related to Table Tennis? (+1, -0.33)

- a. Magnus Carlsen

- b. Timo Boll
 - c. Li Xiaoxia
 - d. Jun Mizutani
-

15. Who wrote the book 'A Century is Not Enough'? (+1, -0.33)

- a. Virat Kohli
 - b. Sachin Tendulkar
 - c. Donald George Bradman
 - d. Sourav Ganguly
-

16. What does the posterior Pituitary gland secrete? (+1, -0.33)

- a. Progesterone
 - b. Estrogen
 - c. Melatonin
 - d. Oxytocin
-

17. In which sport is the term 'Back Row Attack' used? (+1, -0.33)

- a. Horse Racing
- b. Cricket
- c. Polo

d. Volleyball

18. _____ are structures found in the epidermis of leaves that control the processes of transpiration and gaseous exchange. (+1, -0.33)

- a. Striated
 - b. Villi
 - c. Stomata
 - d. Chromatin
-

19. In the 19th century, the people of the Khond tribe lived in the forests of which region? (+1, -0.33)

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

20. Normally, the term of the members of the Lok Sabha is 5 years. But it can be ended earlier-

- a. By the Vice-President
- b. By the Prime Minister
- c. By the President
- d. By the Speaker of the Lok Sabha

21. Which of the following has now attained the status of a full-fledged state? (+1, -0.33)

- a. Sikkim
- b. Chandigarh
- c. Puducherry
- d. Lakshadweep

22. Who is the father of modern bacteriology? (+1, -0.33)

- a. Von Baer
- b. R. Misra
- c. Edward Jenner
- d. Robert Koch

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

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

24. Where was the 1929 session of the Indian National Congress held? (+1, -0.33)

- a. Faisalabad

- b. Lahore
 - c. Karachi
 - d. Rawalpindi
-

25. The term 'Bodhisattva' is associated with which religion? (+1, -0.33)

- a. Vaishnavism
 - b. Jainism
 - c. Buddhism
 - d. Shaivism
-

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

- a. Pacific Ocean
 - b. Atlantic Ocean
 - c. Arctic Ocean
 - d. Indian Ocean
-

27. What is the ionization constant of acetic acid (CH_3COOH)? (+1, -0.33)

- a. 2.74×10^{-5}
- b. 1.74×10^{-5}
- c. 3.74×10^{-5}

d. 1.34×10^{-5}

28. In which state is the Kakrapar Atomic Power Station located? (+1, -0.33)

- a. Madhya Pradesh
 - b. Gujarat
 - c. Haryana
 - d. Jharkhand
-

29. The formula to find momentum is: (+1, -0.33)

- a. Velocity/Mass
 - b. Mass/Velocity
 - c. Mass $\times$ Acceleration
 - d. Mass $\times$ Velocity
-

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

- a. Afghanistan
 - b. Bhutan
 - c. Nepal
 - d. Maldives
-

31. The full form of RTGS is: (+1, -0.33)

- a. Real Time Gross Sales
 - b. Real Time Gross Settlement
 - c. Real Tax Gross Settlement
 - d. Revenue Time Gross Settlement
-

32. Which of the following states has the largest number of representatives in the Lok Sabha? (+1, -0.33)

- a. Madhya Pradesh
 - b. Bihar
 - c. Maharashtra
 - d. Uttar Pradesh
-

33. Who wrote the book 'The Archaeology of Ancient Indian Cities'? (+1, -0.33)

- a. Raaz Kalani
 - b. Dilip Kumar Chakrabarti
 - c. Akbarnama
 - d. Upendra Kumar
-

34. By whom was the famous Lakshmana Temple at Khajuraho built? (+1, -0.33)

- a. By the Chandelas
- b. By the Rashtrakutas

- c. By the Pallavas
 - d. By the Chalukyas
-

35. Where did the Kheda Satyagraha take place? (+1, -0.33)

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

36. The capital of Assam is: (+1, -0.33)

- a. Ranchi
 - b. Itanagar
 - c. Raipur
 - d. Dispur
-

37. In which city were the Youth Olympic Games 2018 held? (+1, -0.33)

- a. Santiago
 - b. Buenos Aires
 - c. Bern
 - d. Harare
-

38. When was the Indian Wildlife (Protection) Act enacted? (+1, -0.33)

- a. 1962
 - b. 1952
 - c. 1972
 - d. 1982
-

39. Which of the following is not a hard currency? (+1, -0.33)

- a. Kuwaiti Dinar
 - b. US Dollar
 - c. European Euro
 - d. Canadian Dollar
-

40. When was the Calotype Society (Photographic Club) founded? (+1, -0.33)

- a. 1698 AD
 - b. 1847 AD
 - c. 1717 AD
 - d. 1968 AD
-

41. Which House of the Indian Parliament is more powerful? (+1, -0.33)

- a. Rajya Sabha

- b. Both Lok Sabha and Rajya Sabha
 - c. Cannot be said
 - d. Lok Sabha
-

42. Where is the headquarters of the Export Credit Guarantee Corporation of India (ECGC)? (+1, -0.33)

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

43. In which year was the Supreme Court of India established? (+1, -0.33)

- a. 1951
 - b. 1947
 - c. 1950
 - d. 1964
-

44. What is the area (trough) drained by rivers called? (+1, -0.33)

- a. Wells
- b. Basin
- c. Lake

d. Lagoon

45. The boundary line between land and sea is called: (+1, -0.33)

- a. Coastline
 - b. Arid
 - c. Gorge
 - d. Island
-

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

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

47. Who was made the acting Prime Minister of India immediately after the death of Jawaharlal Nehru? (+1, -0.33)

- a. Shri Krishnamachari
 - b. Shri Gulzarilal Nanda
 - c. Smt. Indira Gandhi
 - d. Shri Lal Bahadur Shastri
-

48. By whom was the 'Yoga Sutra' written?

(+1, -0.33)

- a. Patanjali
- b. Nagasena
- c. Kanada
- d. Vasumitra

49. What is the name of the currency of Colombia?

(+1, -0.33)

- a. Colombian Rupee
- b. Colombian Peso
- c. Colombian Dollar
- d. Colombian Franc

50. In the SI system, the multiple 10^{-18} is denoted by the prefix -----.

(+1, -0.33)

- a. Atto
- b. Yocto
- c. Exa
- d. Yotta

General Intelligence and Reasoning

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

Wheel, Brake, Engine, Accelerator, Bark

- a. Bark
- b. Wheel
- c. Engine
- d. Accelerator

-
52. In this question, a passage and a statement related to it are given. Read the passage carefully and evaluate the statement on its basis. According to a report, India's economic growth may reach 7 percent next year as government policies are set to focus more on the poor rural conditions of the country's villages in the last year before the 2019 general elections. (+1, -0.33)

ASSOCHAM said in its report for the coming year, "Economic expansion could touch 7% by the quarter ending September 2018, compared with 6.3% GDP growth in the second quarter of 2017-18, while inflation is projected to hover around 4 to 5.5 percent in the second half of next year, with the monsoon being a key unknown."

Statement:

India's GDP growth in the second quarter of 2017-18 was 6.3 percent.

Choose 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. B

b. D

c. C

d. A

53. Pointing to a man, a girl said, "He is the father of my husband's father." (+1, -0.33)
How is that man related to the girl's husband?

a. Father-in-law

b. Father

c. Uncle

d. Grandfather

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

10 persons are sitting in two parallel rows. In each row 5 persons are sitting such that the distance between adjacent persons is equal.

In Row 1 – A, B, C, D and E are all sitting facing South.

In Row 2 – P, Q, R, S and T are all sitting facing North.

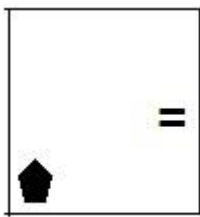
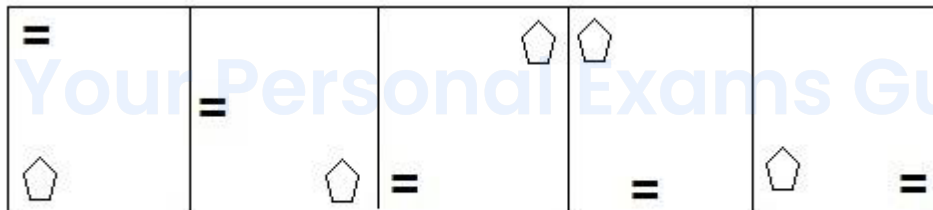
Thus, in this seating arrangement, the persons in the two rows face each other.

- i. E sits at an extreme end of the row.
- ii. B sits second to the left of E and sits exactly opposite Q.
- iii. Q is not a neighbour of P, who does not sit opposite E.
- iv. C and T sit diagonally opposite each other.
- v. A sits opposite S, who sits between P and Q.

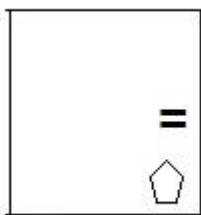
Who sits third to the left of P?

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

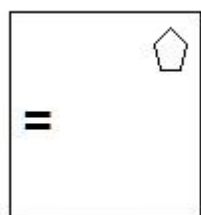
55. Select the figure from the options that will come next in the given series. (+1, -0.33)



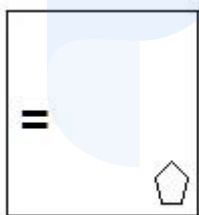
a.



b.



c.



d.

Your Personal Exams Guide

56. Find the next number in the following series:

(+1, -0.33)

17, 19, 41, 127, 513, ?

a. 2057

b. 2517

c. 2571

d. 2048

57. In this question, a statement is followed by two conclusions i and ii. You have to take the statement as true, consider both conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement. (+1, -0.33)

Statement:

"Nick has launched his company's new product. If you want to pay a lower price, buy his product."

Conclusions:

- i). The price of the product must be economical.
- ii). The quality of the product must be good.

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

58. Select the water image of the given figure from the options. (+1, -0.33)

BROWSER

BROWSER

a.

BROWSER

b.

BROWSER

c.

BROWSER

d.

Your Personal Exams Guide

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

Statements: All meters are feet. Some feet are inches. All inches are yards.

Conclusions: i. Some feet are yards

ii. Some meters are yards

iii. No meter is a yard

iv. All meters are inches

a. Only i, iii and iv

b. Only i, and either ii or iii

c. Only i and ii

d. Only i and iv

60. 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 PQR@S, how is P related to S?

a. Uncle

b. Aunt

c. Grandfather

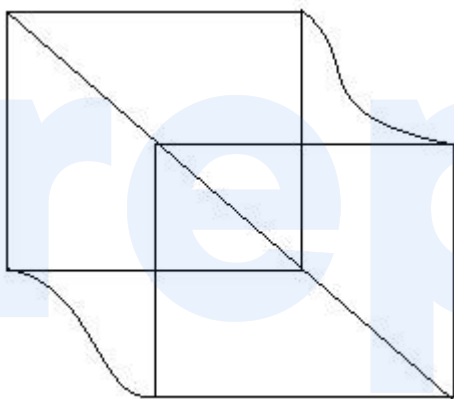
d. Father

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

126, 127, 131, 140, 156, ?

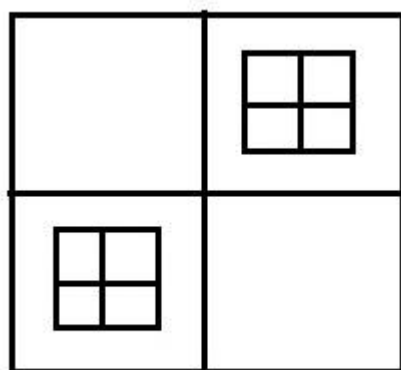
- a. 181
- b. 172
- c. 166
- d. 184

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



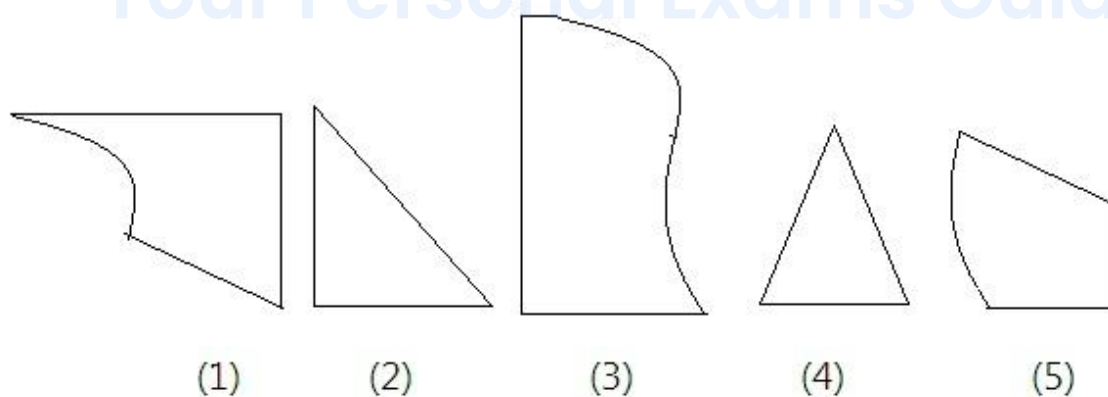
- a. 16
- b. 13
- c. 6
- d. 10

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



- a. 14
- b. 12
- c. 18
- d. 15

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



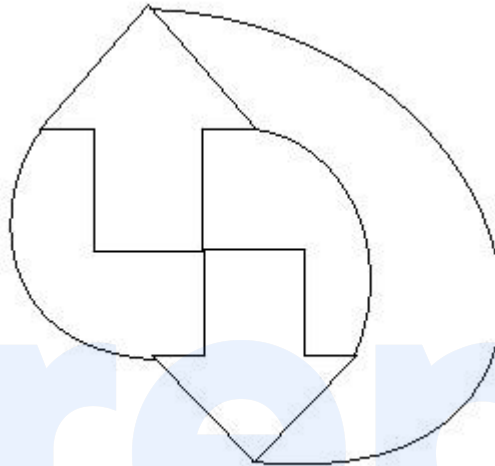
- a. 1, 4, 5
- b. 1, 3, 5

c. 2, 4, 5

d. 2, 3, 5

65. How many straight lines are there in the given figure?

(+1, -0.33)



a. 18

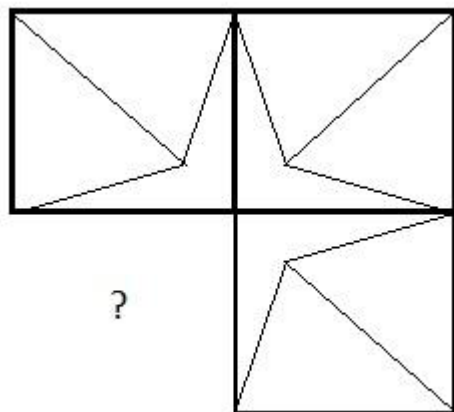
b. 12

c. 10

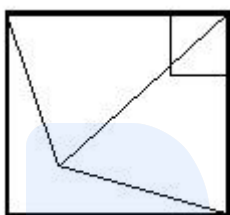
d. 16

66. Select the figure from the options that correctly completes the pattern of the given figure:

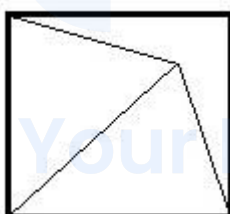
(+1, -0.33)



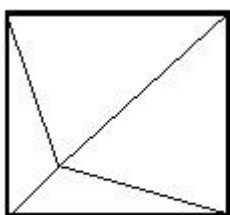
a.

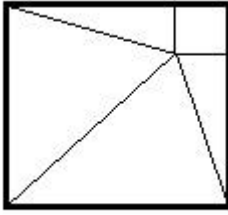


b.



c.





d.

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

AEI, MQU, KNS, CGK, LPT

- a. LPT
- b. CGK
- c. KNS
- d. AEI

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

199, 202, 197, 204, 193, ?

- a. 206
- b. 202
- c. 198
- d. 182

69. Based on the logic used in the first pair, replace the question mark in the second pair with the correct option. (+1, -0.33)

Cat:Kitten ::Cow: ??

- a. Bull
- b. Calf
- c. Lamb
- d. Bleat

70. In a certain code language, READING is coded as FJWILSN. How will FORMULA be coded in the same language? (+1, -0.33)

- a. TKWFQZR
- b. VSJQEPY
- c. VSQJPEY
- d. WTKRFQZ

71. Based on the logic used in the first pair, replace the question mark in the second pair with the correct option. (+1, -0.33)

BT:DV::LX: ??

- a. NW
- b. OY
- c. NZ

d. MY

72. N is the wife of M, who is the only son-in-law of A, whose husband is B. (+1, -0.33)

How is A related to N?

a. Mother-in-law

b. Mother

c. Father

d. Uncle

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

EGYPT



TYG3

a.

EGYT

b.

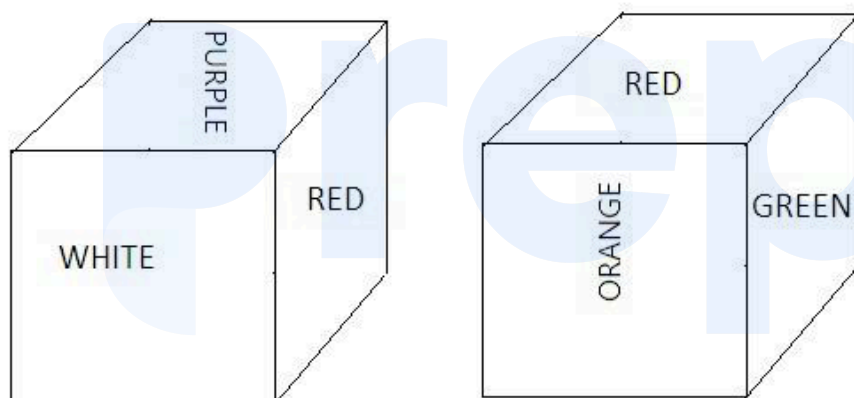
TYG3

c.

74. 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 the green face?

d.

(+1, -0.33)



Your Personal Exams Guide

- a. Red
- b. White
- c. Gray
- d. Purple

75. 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: $B \geq L = K < T = J$

Conclusions:

I. $B \geq K$

II. $L < J$

Choose the 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. A

b. B

c. E

d. D

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

10 persons are sitting in two parallel rows. In each row, 5 people are sitting such that the distance between adjacent persons is equal.

In row 1 – A, B, C, D and E are all sitting facing south.

In row 2 – P, Q, R, S and T are all sitting facing north.

Thus, in this seating arrangement, the people in the two rows face each other.

- i. E is sitting at an extreme end of the row.
- ii. B is second to the left of E and sits exactly opposite Q.
- iii. Q is not a neighbour of P, who does not sit opposite E.
- iv. C and T sit diagonally opposite each other.
- v. A sits opposite S, who sits between P and Q.

If E interchanges places with A, D with C, and S with Q, which statement will be true regarding the new seating arrangement?

- a. B is second to the right of A
- b. T is second to the left of S
- c. C and T are sitting at the ends of the rows
- d. D and R are sitting facing each other

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

Statements: $B = S \geq T < H = A$; $C > Q = U < T < D$; $F > E > D = K$

Conclusions:

- i) $K > Q$
- ii) $B > C$

iii) $C > K$

- a. Only ii and iii
- b. Only i
- c. Only iii
- d. Only i and ii

78. 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)

According to a report, India's economic growth may reach 7 percent next year as government policies in the last year before the 2019 general elections are expected to pay more attention to the worsening rural conditions in the country's villages.

ASSOCHAM, in its report for the coming year, said, "Economic expansion may reach 7% by the last quarter of September 2018, compared to the 6.3% GDP growth of the second quarter of 2017-18, while inflation is expected to remain around 4 to 5.5 percent in the second half of next year, with the monsoon being an important unknown."

Statement: The estimate of 7 percent growth in GDP is based on the stability of the foreign exchange rate.

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. D

b. A

c. C

d. B

-
79. Based on the logic used in the first pair, replace the question mark in the second pair with the correct option. (+1, -0.33)

Dentist:Teeth::Ophthalmologist: ??

a. Eyes

b. Muscles

c. Ears

d. Bones

-
80. Based on the logic used in the first pair, replace the question mark in the second pair with the correct option. (+1, -0.33)

1468:19::2224: ??

a. 18

b. 10

c. 12

d. 16

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

R, Z, B, N, U

a. N

b. Z

c. U

d. R

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

295, 308, 327, 352, 383, ?

a. 398

b. 414

c. 426

d. 420

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

10 persons are sitting in two parallel rows. In each row, 5 persons are seated such that the gap between adjacent persons is equal.

In row 1 – A, B, C, D and E are all sitting facing south.

In row 2 – P, Q, R, S and T are all sitting facing north.

Thus, in this seating arrangement, the persons in the two rows face each other.

i. E is sitting at an extreme end of the row.

ii. B is second to the left of E and sits exactly opposite Q.

iii. Q is not a neighbour of P, who is not sitting opposite E.

iv. C and T are sitting diagonally opposite each other.

v. A is sitting opposite S, who is sitting between P and Q.

If E interchanges places with A, D with C and S with Q, then according to the new arrangement, who will sit opposite S?

a. B

b. A

c. C

d. E

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

Statements:

Some cats are dogs. All dogs are rats.

Conclusions:

i). Some rats are cats.

ii). All rats are cats.

Choose 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. E
 - b. B
 - c. C
 - d. A
-

85. In a certain code language, YELLOW is coded as BVOOLD. How will GREEN be coded in the same language? (+1, -0.33)

- a. ITVVM
- b. HSFFM
- c. FQDDM
- d. TIVVM

Arithmetic

86. Simplify:

(+1, -0.33)

$$\left((4^4)^2 \times \frac{1}{64^2}\right)^2 + 10 = ?$$

- a. 344
- b. 244
- c. 366
- d. 266

87. The ratio of the time taken by Binoy and Kairo to cover a distance of 1000 km is 15:16. Find the ratio of their speeds.

(+1, -0.33)

- a. 16:15
- b. 12:13
- c. 14:17
- d. 19:18

88. A gift box contains 10 bangles. The average weight of the first 4 bangles is 30 gm and the average weight of the remaining 6 bangles is 31 gm. Find the overall average weight (in gm) of all the bangles.

(+1, -0.33)

- a. 30
- b. 31.6
- c. 31

d. 30.6

89. Find the number of trailing zeros in $76!$.

(+1, -0.33)

a. 18

b. 16

c. 20

d. 14

90. A station master decided to increase the length of a rectangular digital board by 3% and decrease its breadth by 3%. Find the net change in the area of the board.

(+1, -0.33)

a. 0.06% decrease

b. 0.09% increase

c. 0.04% increase

d. 0.09% decrease

91. A cube with a diagonal of $7\sqrt{3}$ cm is melted and recast into a cuboid. What will be the height of the cuboid if its length is equal to the side of the cube and its breadth is 3.5 cm?

(+1, -0.33)

a. 6 cm

b. 12 cm

c. 14 cm

d. 8 cm

92. Simplify:

(+1, -0.33)

$$\sqrt{19.36} + \sqrt{77.44} \div 2 = ?$$

a. 8.2

b. 8.6

c. 8.8

d. 8.4

93. ₹4600 was invested at a simple interest rate of 8% per annum. If the amount is withdrawn after 5 years and half of it is invested in the share market, what is the remaining amount (in ₹)?

(+1, -0.33)

a. 2880

b. 4220

c. 3220

d. 3660

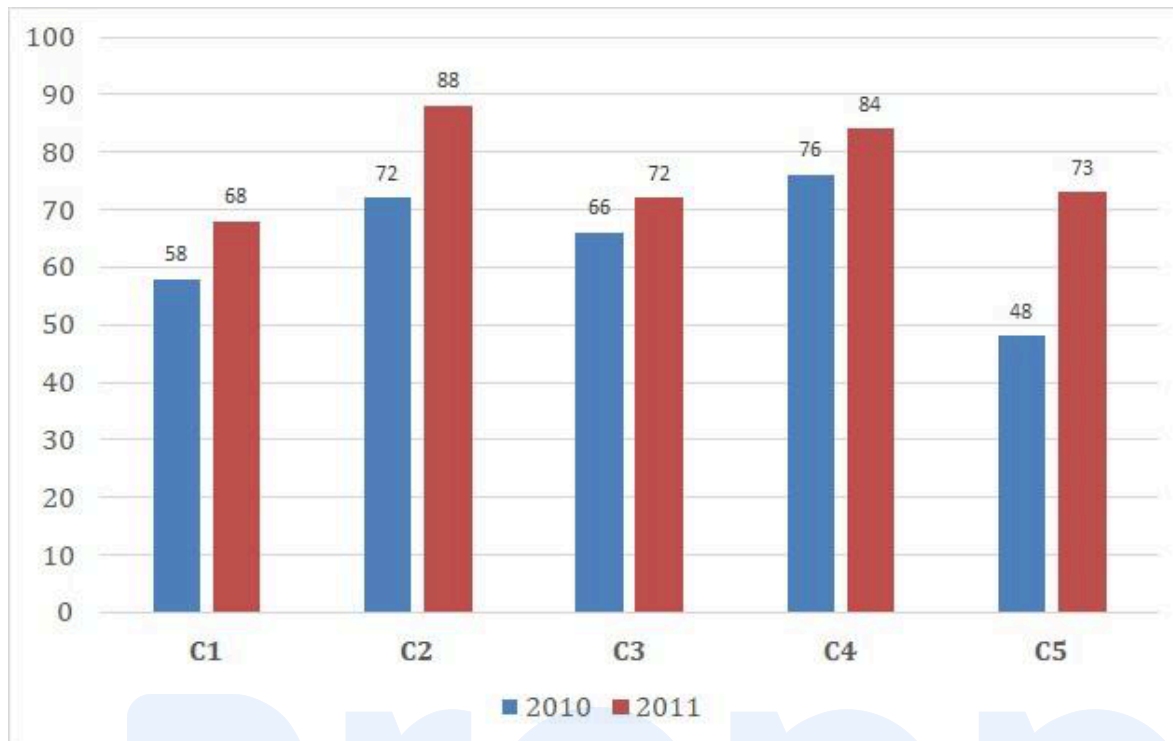
94. Directions:

(+1, -0.33)

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

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



- a. 65
- b. 64
- c. 63
- d. 66

Your Personal Exams Guide

95. When a number is divided by 42, the remainder is 13. What remainder will be obtained when the same number is divided by 14? (+1, -0.33)

- a. 10
- b. 8
- c. 13
- d. 12

96. The average weight of 95 notebooks kept in a box is 9.5 kg. When 1 more notebook is put in the box, the average weight becomes 9.6 kg. Find the weight of the new notebook. (+1, -0.33)

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

97. A bulb manufacturing company found that 11% of its total production was defective. If the number of good products is 2047, find the number of defective products. (+1, -0.33)

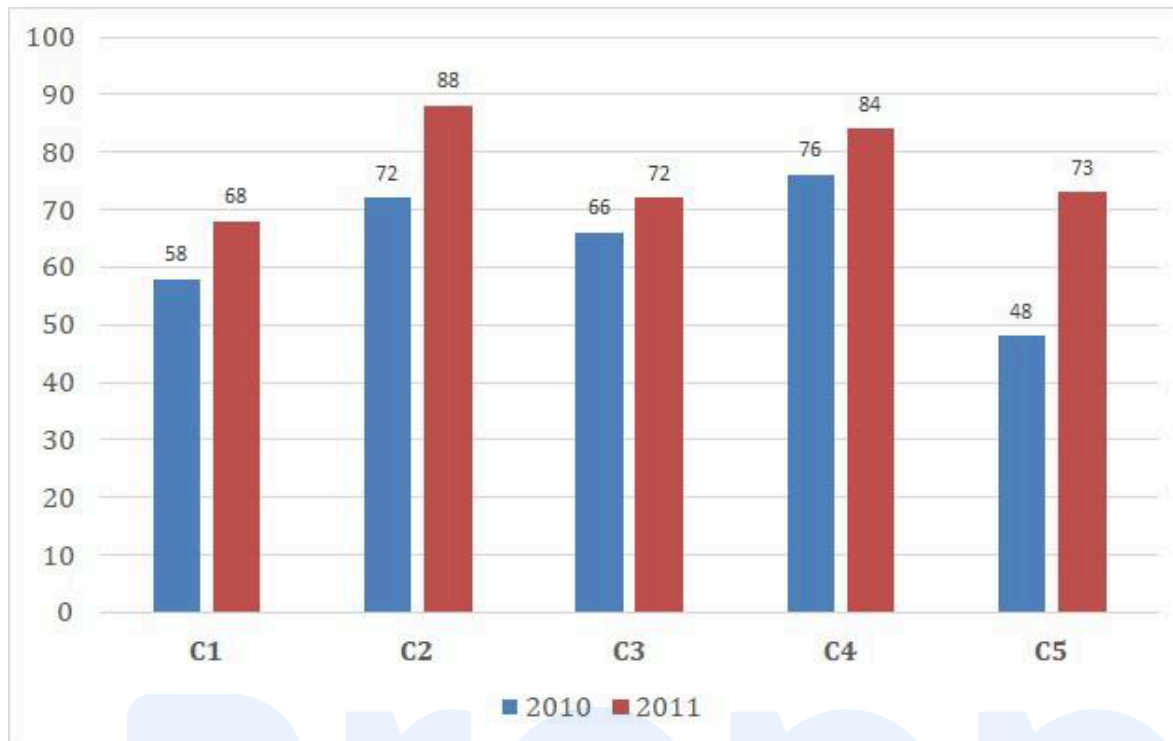
- a. 234
- b. 454
- c. 253
- d. 324

98. Directions: (+1, -0.33)

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

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 total combined sales (in thousands) of branches C1, C3 and C5 of the company in both years.



- a. 355
- b. 365
- c. 375
- d. 385

Your Personal Exams Guide

99. A person travels along the sides of an equilateral triangular field at speeds of 20 kmph, 24 kmph and 30 kmph. Find the average speed of the journey. (+1, -0.33)
- a. 28 kmph
 - b. 24 kmph
 - c. 30 kmph
 - d. 32 kmph

100. A shopkeeper earns a profit of 12.5% by selling a product for ₹819. Half of the cost price of the article will be equal to how many rupees? (+1, -0.33)

- a. ₹248
- b. ₹464
- c. ₹728
- d. ₹364

101. If the radius of a circle is made 6 times, how many times will its circumference become compared to its earlier circumference? (+1, -0.33)

- a. 8
- b. 5
- c. 6
- d. 7

102. A shopkeeper marks an article 32% above its cost price and then allows a discount of 32% on its sale. Find his overall profit or loss percentage. (+1, -0.33)

- a. 10.24% loss
 - b. 11.24% profit
 - c. 9.64% profit
 - d. 8.96% loss
-

103. Find the product of the numbers whose LCM is 30 and HCF is 9. (+1, -0.33)

- a. 290
- b. 280
- c. 300
- d. 270

104. Simplify: (+1, -0.33)

$$4 \div 4^{-2} + \sqrt{81} + \sqrt{25} = ?$$

- a. 58
- b. 68
- c. 88
- d. 78

105. A bag contains old coins of different types in the ratio 12:13:11, whose values are ₹3, ₹4 and ₹5 respectively. If the total value of the coins is ₹572, what is the total number of ₹3 coins? (+1, -0.33)

- a. 48
- b. 38
- c. 56
- d. 26

106. Mark donates 14% of his salary to an institution for the blind, 16% to an orphanage and 12% to an institution for the differently-abled, and gives 13% of his salary as help for setting up a medical camp. He deposits the remaining ₹24570 in the bank for monthly expenses. How much does he donate to the institution for the differently-abled? (+1, -0.33)

- a. ₹6882
- b. ₹7422
- c. ₹6552
- d. ₹8644

107. Simplify: (+1, -0.33)

$$\frac{1}{9} \div \frac{1}{9} \div \frac{1}{9} \div \frac{1}{9} \div \frac{1}{9} = ?$$

- a. 729
- b. 841
- c. 512
- d. 343

108. Dravid distributes 350 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 in number. How many gifts did the first child receive? (+1, -0.33)

- a. 168

b. 326

c. 128

d. 224

109. In how many ways can 480 mobile phones be distributed equally among the students of a class? (+1, -0.33)

a. 14

b. 16

c. 20

d. 24

110. A sum of money becomes double itself in 3 years at compound interest. In how many years will it become 16 times itself? (+1, -0.33)

a. 12

b. 14

c. 10

d. 15

111. An English company working on a support project has 505 male and 505 female workers. The average productivity of all employees is 55 calls/day. If a male worker receives 55 calls/day, how many calls per day are received by the female employees (on average)? (+1, -0.33)

a. 55

b. 51

c. 57

d. 53

112. Karmi covers a certain distance walking at $\frac{6}{7}$ of her usual speed and takes 14 minutes more than her usual time. Calculate the usual time taken. (+1, -0.33)

a. 48 minutes

b. 1 hour 12 minutes

c. 1 hour 24 minutes

d. 60 minutes

113. A person cycling at 20 kmph from the hostel reaches college 9 minutes late. If he cycled at 24 kmph, he would reach 8 minutes early. Find the distance between the hostel and the college. (+1, -0.33)

a. 34 km

b. 36 km

c. 28 km

d. 26 km

114. The salaries of Sam, Sai and Shri are in the ratio 7:9:11. If Shri gets ₹320 more than Sam, what is Sai's salary (in ₹)? (+1, -0.33)

a. 840

b. 740

c. 820

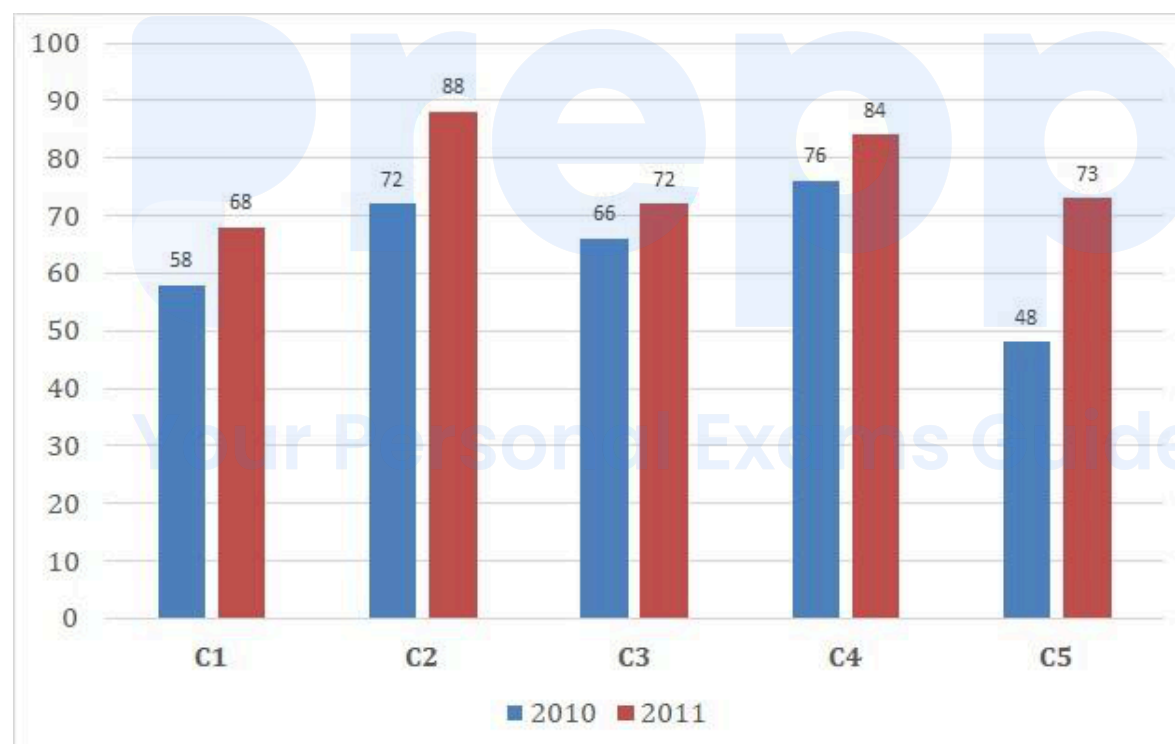
d. 720

115. Directions:

(+1, -0.33)

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

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. 1:4

b. 1:3

c. 1:2

d. 1:1

116. On selling an article for ₹1512, the profit obtained is 11% more than the loss incurred on selling the same article for ₹879. Find the cost price of the article. (+1, -0.33)

a. ₹1814

b. ₹1179

c. ₹964

d. ₹1024

117. A train takes 57 seconds to cross a 342 m long bridge. If the same train takes 19 seconds to cross a signboard, find the length of the train. (+1, -0.33)

a. 142 m

b. 156 m

c. 168 m

d. 171 m

118. The difference between the compound interest and the simple interest obtained on the same sum invested at the same rate for 2 years is ₹32. If the rate of interest is 4% per annum, calculate the sum invested (in ₹). (+1, -0.33)

a. 30000

b. 16000

c. 20000

d. 25000

119. Dinesh scores 68 out of 80 in French, 78 out of 100 in English, 48 out of 70 in Spanish and 28 out of 50 in Japanese. Find the overall percentage of marks obtained by him. (+1, -0.33)

a. 44%

b. 84%

c. 74%

d. 64%

120. A square piece of glass of area 484 cm^2 is placed on top of a table. The width between the glass piece and an edge of the table is 5 cm. Find the length of the table. (+1, -0.33)

a. 30 cm

b. 34 cm

c. 32 cm

d. 28 cm