

DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

EXAM ID. - 12016

# RPF SI

## TEST SERIES

DATE - \_\_/\_\_/\_\_

DAY -

INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

A - 101

QUESTION – 120

MARKS – 120

NEGATIVE MARK – 1/3

DURATION – 90 MIN

1. Use only ball pens with black or blue ink
2. As soon as the examination starts, you must check this question booklet and if there is any unprinted, mutilated or partially printed page or question in it, then replace it with the correct question booklet through Abhijagar.
3. There are total 120 questions in this question booklet.
4. This is an objective test, in which four options are given for the answer to each question, you have to choose only one option with the correct answer out of these four options.
5. Answers to all questions are to be written on separate answer sheets.
6. Instructions for filling the answer sheet are written on the back side of the answer sheet, read them carefully before filling the answer sheet.
7. Blank pages are available in this question booklet for rough work.
8. Candidates cannot leave the room before the end of the examination.
9. After the examination is over, you can go out with his permission by submitting the ORIGINAL COPY of the answer sheet to the invigilator.
10. After the completion of the examination, the candidate is allowed to take the question booklet and answer sheet with him/her.
11. 1 marks will be given for each correct answer and 1/3 marks will be deducted for each wrong answer.



YOUR BRAND LOGO  
HERE

**YOUR INSTITUTE NAME**

**Address- Your coaching institute full address**

**Helpline :- 7737404085, 8209244090**

- In which part of the Indian Constitution is there provision for Panchayats?**
  - Part IX a
  - PART IX b
  - Part X c
  - Part XV d
- The famous Lucknow Pact of 1916 was signed between \_\_\_\_\_.**
  - Mahatma Gandhi and Aga Khan a
  - Bal Gangadhar Tilak and Muhammad Ali Jinnah b
  - Mahatma Gandhi and Muhammad Ali Jinnah c
  - Bal Gangadhar Tilak and Aga Khan d
- How many languages are listed in the 8th Schedule of the Indian Constitution?**
  - 18 a
  - 14 b
  - 15 c
  - 14 d
- When was Pradhan Mantri Ujjwala Yojana started?**
  - July 2017 a
  - January 2018 b
  - May 2014 c
  - May 2016 d
- India is hosting the IOC session for the second time, before this event when was the first IOC session held in India?**
  - 1970 a
  - 1983 b
  - 1995 c
  - 2005 d
- Which of the following organizations was merged with the Indian National Congress?**
  - Youth Bengal Movement a
  - Bombay Presidency Association b
  - East India Association c
  - Indian Association d
- Which Indian mass movement started with Mahatma Gandhi's famous 'Dandi March'?**
  - Khilafat Movement a
  - Non-Cooperation Movement b
  - Civil disobedience movement c
  - Quit India Movement d
- Name the highest peak of Satpura range.**
  - Dhupgarh a
  - Kalsubai b
  - Doddabetta c
  - Anamudi d
- Who among the following is known for his work on medicine during the Gupta period?**
  - Charak a
  - Sushruta b
  - Soumila c
  - Panini d
- After the death of Guru Gobind Singh in 1708, the Khalsa rebelled against Mughal power under the leadership of \_\_\_\_\_.**
  - Guru Angad a
  - Guru Amar Das b
  - Banda Bahadur c
  - Guru Nanak Dev d
- Ugadi is celebrated in which of the following states?**
  - Madhya Pradesh a
  - Andhra Pradesh b
  - Himachal Pradesh c
  - Kerala d
- Which place was awarded the 'Award of Excellence' by UNESCO for its Resilient Urban Revitalization Project?**
  - Bikaner House, Delhi a
  - Church of Epiphany, Haryana b
  - Karnikara Mandapam at Kunnamangalam Bhagavathi Temple, Kerala c
  - Rambagh Gate and Ramparts, Punjab d
- In which article of the Indian Constitution the fundamental right against exploitation comes?**
  - Article 29-30 a
  - Article 19-22 b
  - Article 14-18 c
  - Article 23-24 d
- Micro economics is also called \_\_\_\_\_.**
  - profit principle a
  - loss theory b
  - value theory c
  - expenditure principle d
- A bifocal lens is used as a remedy for which of the following defects in the eyes?**
  - long view a
  - little foresight b
  - astigmatism c
  - short sightedness d
- In which of the following Himalayan ranges is Banihal Pass located?**
  - greater himalaya a
  - pir panjal b
  - Ladakh c
  - zaskar d
- Which of the following has the shortest wavelength?**
  - visible rays a
  - gamma rays b
  - infrared rays c
  - X-rays d
- Which of the following is called "Hot Money"?**
  - FII a
  - FDI b
  - ADR c
  - GDR d
- Which of the following instruments is used to measure sound under water?**
  - hydrophone a
  - hygroscope b
  - hypsonometer c
  - Mcmeter d
- Find the potential difference between a 40  $\Omega$  resistor and a blender producing 500 J in five seconds.**
  - 63.2 V a
  - 60.3 V b
  - 56.6 V c
  - 67.8 V d

21. In which schedule is contained the provision relating to the salary, allowances, privileges, etc. of the Governor of the States and the President?
- a. second schedule                      b. third schedule  
c. fourth schedule                      d. first schedule
22. Which of the following folk dances is related to Assam?
- a. buia dance                              b. Bihu  
c. nongkram dance                      d. Hojagiri
23. Which of the following is the main thinking part of the human brain?
- a. posterior brain                      b. cerebrum  
c. mid brain                              d. none of these
24. Dairy comes under which sector of economic activity?
- a. tertiary sector                      b. primary sector  
c. secondary sector                      d. Quaternary region
25. The chain of floating islands called Phumdi is a feature of which of the following?
- a. Pangong Tso Lake                      b. Sambhar Lake  
c. Pulicat Lake                              d. Loktak Lake
26. Naypyidaw is the capital of which of the following Indian border countries?
- a. bhutan                                  b. Nepal  
c. afghanistan                              d. Myanmar
27. The unit of calorific value of fuel is expressed as \_\_\_\_\_.
- a. psi    b. micron  
c. mmHg                                      d. kJ/kg
28. Under which article can the President of India be impeached for violating the Constitution?
- a. Article 52                                  b. Article 61  
c. Article 74                                  d. Article 78
29. Which of the following is not a part of the endocrine system?
- a. pineal gland                              b. salivary gland  
c. thymus                                      d. Adrenal gland
30. Santosh Trophy is related to which sport?
- a. Football                                      b. Cricket  
c. chess    d. Tennis
31. Whose motif is printed on the Rs 200 bank note?
- a. Sanchi Stupa                              b. Red Fort  
c. Parliament House                      d. Hampi with chariot
32. Who among the following founded the Forward Bloc in 1939?
- a. Mahatma Gandhi                      b. Sardar Vallabhbhai Patel  
c. Subhash Chandra Bose              d. Jawaharlal Nehru
33. Where is the bilateral exercise, Bongosagar-23, between the Indian Navy and Bangladesh Navy being conducted?
- a. Visakhapatnam                      b. Kochi  
c. Chennai                                      d. Andaman and Nicobar Islands
34. Which of the following is an example of a vector quantity?
- a. speed    b. distance  
c. entropy                                      d. energy
35. The famous Pichavaram mangrove forest is located in which Indian state?
- a. Kerala    b. Karnataka  
c. Andhra Pradesh                          d. tamil nadu
36. Who has become the first female Indian cricketer to be inducted into the ICC Hall of Fame?
- a. Sulakshana Naik                          b. Anjum Chopra  
c. Rumeli Dhar                                  d. Diana Edulji
37. What would be the weight of a 78 kg person on the moon? Take  $g = 1.63 \text{ m/s}^2$ .
- a. 125.38 N                                      b. 126.76 N  
c. 123.25 N                                      d. 127.14 N
38. Who was the first Muslim President of the Indian National Congress?
- a. abdul kalam azad                          b. Syed Ahmed Khan  
c. Badruddin Tyabji                          d. fazlul haq
39. Recently, 124 PM-SHRI schools were dedicated to Haryana, the scheme aims to develop \_\_\_\_\_ schools.
- a. 18500    b. 19500  
c. 14500    d. 24500
40. What does the Vedic word 'Kul' mean?
- a. Nation    b. District  
c. Gram    d. Family
41. During which phase of mitosis are spindle fibers formed and attached to the chromosomes?
- a. middle age                                      b. anaphase  
c. pre-stage    d. end stage

42. Which of the following rulers built the mosque 'Adhai Din Ka Jhonpra'?

- a. Balban
- b. abraham lodi
- c. Iltutmish
- d. Qutb-ud-din Aibak

43. During which five year plan did India adopt mixed economy?

- a. Fourth Five Year Plan
- b. Second Five Year Plan
- c. Third Five Year Plan
- d. First Five Year Plan

44. Where did Buddha attain Mahaparinirvana?

- a. Kushinagar
- b. realized
- c. Sarnath
- d. Lumbini

45. Which of the following festivals is associated with Tripura?

- a. Eggplant
- b. Kang Chingba
- c. Bihu
- d. expensive puja

46. Who was a leader of the Allahabad (now Prayagraj) rebellion against the British in 1857?

- a. Maulvi Liaquat Ali
- b. Taty Tope
- c. Khan Bahadur Khan
- d. Rani Lakshmi Bai

47. Which of the following is the 'fifth state of matter'?

- a. plasma
- b. einstein condensate
- c. Bose-Einstein Condensate
- d. Newton-Einstein Condensate

48. Which of the following states appointed Justice Siddharth Mridul as the 7th Chief Justice of the High Court?

- a. Manipur
- b. Odisha
- c. Assam
- d. West Bengal

49. Which of the following agencies launched Operation Chakra-2?

- a. CBI
- b. RBI
- c. IB
- d. NIA

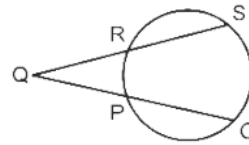
50. Which of the following is the correct sequence of parts of the female reproductive organ in plants?

- a. Ovary, style, pistil and stigma
- b. stigma, stigma, ovary and pistil
- c. ovary, stigma, stigma and pistil
- d. Stigma, stigma, ovary and pistil

51. Find the principal, if a sum of Rs. 3249 is received at compound interest at the rate of 14% per annum for 2 years.

- a. Rs. 1600
- b. Rs. 2500
- c. Rs. 1500
- d. Rs. 3000

52. In the given figure  $QR = 4$  cm,  $QP = 8$  cm, and  $OP = 12$  cm Find the value of  $QS$ .



- a. 40 cm
- b. 32 cm
- c. 12 cm
- d. 24 cm

53. The price of a bat and a ball are in the ratio 9 : 5. The price of the bat is Rs. 380 more than the price of the ball. Find the price of the ball.

- a. Rs. 470
- b. Rs. 485
- c. Rs. 475
- d. Rs. 480

54. The ratio of a father's age to his son's age is 3 : 2. The product of the numbers representing their age is 486. The ratio of their ages after 5 years will be:

- a. 32 : 24
- b. 32 : 21
- c. 32 : 22
- d. 32 : 23

55. The monthly incomes of Ravi and Shiv are in the ratio 1 : 2 and their monthly expenditures are in the ratio 1 : 3. If each saves ₹4,000 per month, then find the monthly income of Shiv.

- a. ₹16,000
- b. ₹18,000
- c. ₹14,000
- d. ₹20,000

56. If the difference between two numbers is 4 and their product is 32, then the absolute difference between their cubes is:

- a. 444
- b. 484
- c. 844
- d. 448

57. Three persons P, Q, R run along a circular track at speeds of 3 km/h, 4 km/h, 6 km/h, respectively. If the length of the track is 36 km, then after how much time will they meet again at the starting point?

- a. 38 hours
- b. 36 hours
- c. 24 hours
- d. 28 hours

58. Calculate the trapezium's area if length of its two parallel sides are  $a = 22.4$  cm and  $b = 23.6$  cm and distance between them is 10 cm.

- a. 230 cm<sup>2</sup>
- b. 165 cm<sup>2</sup>
- c. 320 cm<sup>2</sup>
- d. 345 cm<sup>2</sup>

59. Find the amount if a sum of Rs. 7,500 is invested on compound interest at 8% p.a. for 1.5 years when the interest is compounded half yearly.

- a. Rs. 8,436.48
- b. Rs. 8,736.48
- c. Rs. 8,657.48
- d. Rs. 8,564.48

60. Anil and Sunil started a business investing equal amounts, Anil left after 9 months. They earned an annual profit of Rs. 28,000. What is Sunil's share of annual profit?

- a. Rs. 15,000                      b. Rs. 16,000  
c. Rs. 12,000                      d. Rs. 13,000

61. The LCM and ratio of three numbers are 1386 and 3 : 7 : 11, respectively. The sum of the greatest and least numbers is:

- a. 60                                      b. 64  
c. 84                                      d. 108

62. Nine years ago, P's age was twice the age of Q. If the ratio of their present ages is 5 : 4, what is the sum of their present ages ?

- a. 35 years                              b. 40 years  
c. 30 years                              d. 27 years

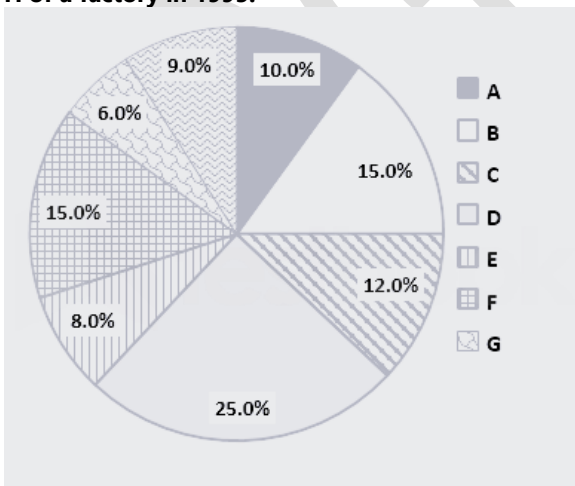
63. A mixture of 90 liters contains milk and water in the ratio 7 : 2. If 10 liters of milk and 5 liters of water are added to the mixture, what will be the new ratio of water to milk?

- a. 5 : 16                                  b. 16 : 5  
c. 9 : 5                                  d. 16 : 9

64. A man spends 30% of his salary on groceries, and is left with ₹3,500. Find his total salary.

- a. ₹11,000                              b. ₹ 6,000  
c. ₹5,000                              d. ₹5,500

65. The following pie chart shows the number of workers of different categories A, B, C, D, E, F, G and H of a factory in 1995.



If the number of workers in category B is increased by 10% and the number of workers in category D is decreased by 5% in 1996, then what is the total number of workers in categories B and D in 1996, if no. of workers in B was 1500 in the year 1995?

- a. 4025                                  b. 4500

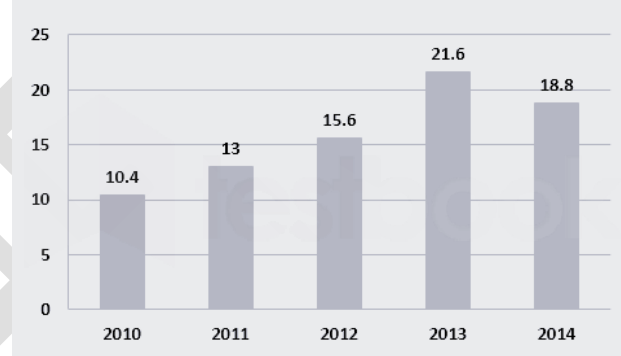
- c. 5000                                  d. 4000

66. The population of a town increased by 12% in the first year and by 16% in the second year. What is the percentage increase in the population at the end of the second year with respect to the population at the beginning of the given 2- year period ?

- a. 29.6 %                              b. 29.92 %  
c. 19.92 %                              d. 19.6 %

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

The bar-graph shows the export of rice (in ₹ lakh) during five years.



In how many years was the export of rice less than the average export for the five-year period?

- a. 4    b. 1  
c. 3    d. 2

68. If the seven-digit number 161x208 is divisible by 11 and the four-digit number 953y is divisible by 9, then what is the value of (x + y)?

- a. 7    b. 8  
c. 10                                      d. 12

69. If a solid sphere of radius 10 cm is melted into 8 spherical solid balls of equal radius, then what will be the surface area of each such ball ? [Use  $\pi = 22/7$ ]

- a.  $319\frac{1}{7} \text{ cm}^2$                       b.  $314\frac{2}{7} \text{ cm}^2$   
c.  $335\frac{5}{7} \text{ cm}^2$                       d.  $324\frac{3}{7} \text{ cm}^2$

70. Nilesh bought some quantity of barley for ₹5,000. Half of it is sold at a profit of 20%. If Nilesh wishes to make a profit of 15% on the whole, find the selling price (in ₹) of the remaining barley.

- a. 3,000                                  b. 3,250  
c. 2,500                                  d. 2,750





94. In the question, a statement is given followed by two conclusions numbered I and II. You have to take the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, logically follows from the given statement.

**Statements:** Money plant has thin leaves and requires more water.

**Conclusion I:** Plants with thin leaves require more water.

**Conclusion II:** Money plant cannot be grown in places with water scarcity.

- a. Both I and II follow.                      b. Neither I nor II follow.  
c. Only I follows.                                d. Only II follows.

95. Each of the six professors of same department, Jayanth, Kiran, Lasya, Mythili, Nischal and Omprakash, have their classes on six different days of a week, starting from Monday and ending on Saturday of the same week, but not necessarily in the same order. Only two professors have classes before Mythili's class. Jayanth has the class on Tuesday and Omprakash has the class on Saturday. Only one professor has the class after the class of Kiran. The class of Nischal is not on any of the days between the classes of Kiran and Mythili.

**Who among the following has the class on Monday?**

- a. Lasya    b. Nischal  
c. Mythili     d. Kiran

96. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

**RAIN : SZJM :: FALL : GZMK :: JUMP : ?**

- a. KNTQ    b. KTNO  
c. KOTN    d. OKTN

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

**2880, 480, 96, ?, 8, 4**

- a. 24    b. 76  
c. 46    d. 56

98. Consider the given argument and decide which of the given assumptions is (are) implicit.

**Argument:**

The government had put advertisements and issued advisories to the public not to eat food from the roadside, as they are unhygienic.

**Assumptions:**

1- The government wants to stop roadside vendors business.

2- The government wants to increase the profit of hotel owners.

- a. Only assumption 2 is                      b. Both 1 and 2 are implicit.

implicit.

- c. Neither 1 nor 2 is                      d. Only assumption 1 is  
implicit.    implicit.

99. How many triangles are there in the given figure?



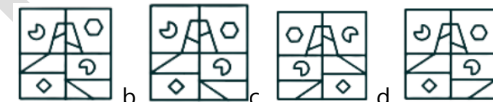
- a. 24    b. 26  
c. 28    d. 30

100. What will come in the place of '?' in the following equation, if '+' and 'x' are interchanged and also '-' and '÷' are interchanged?

**20 ÷ 5 × 10 - 5 + 2 = ?**

- a. 4    b. 19  
c. 12     d. 2

101. 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?



102. Seven persons Anil, Kamal, Ram, Sanjay, Aakash, Vivek and Rahul are sitting around a circular table facing opposite to the centre (not necessarily in the same order). Vivek is the immediate neighbour of both kamal and Rahul. Kamal is second to the left of Aakash, Anil is the immediate neighbour of both Aakash and Sanjay. Who is second to the right of Sanjay?

- a. Vivek    b. Anil  
c. Aakash    d. Kamal

103. 'A # B' means 'A is the brother of B'.

'A @ B' means 'A is the daughter of B'.

'A & B' means 'A is the husband of B'.

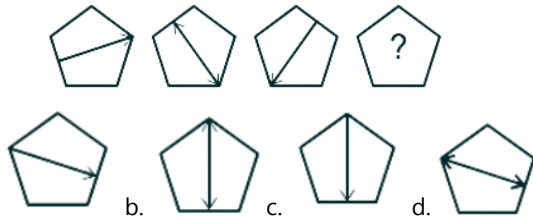
'A % B' means 'A is the wife of B'.

If D @ N @ H & Y @ F % V, then how is N related to F?

- a. Son's wife                                      b. Daughter  
c. Daughter's daughter                      d. Sister's daughter

104. In a gathering, seven members (A, B, C, D, E, F, G) are sitting in a row facing north. Only two people sit to the left of E. F sits to the immediate right of E. C sits to the immediate left of B. D is not sitting at the





117. The sum of the present ages of a father and his son is 58 years. Four years ago, the ratio of their ages was 4 : 1. What is the present age of the father?

- a. 35 years                      b. 44 years  
c. 38 years                      d. 40 years

118. Consider the given question and decide which of the following statements is sufficient to answer the question.

What is the colour of the granite in the kitchen?

Statements:

1- The colour of the granite is the colour of the wall.

2- The colour of the granite is very bright.

- a. Neither 1 nor 2 is sufficient to answer the given question.                      b. 1 alone is sufficient while 2 alone is not sufficient to answer the given question.  
c. 2 alone is sufficient while 1 alone is not sufficient to answer the given question.                      d. Both 1 and 2 are sufficient to answer the given question.

119. In a certain code language, '+' represents '-', '-' represents 'x', 'x' represents '÷' and '÷' represents '+'. Find out the answer to the following question.

$$3 \div 16 \times 4 - 5 = ?$$

- a. 16                                      b. 11  
c. 6                                        d. 23

120. Three Statements are given followed by Three conclusions numbered I, II and III. 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 fans are big.

All big are coats.

Some coats are flat.

Conclusions:

I. All fans are big.

II. Some coats are big.

III. Some flats are coats.

- a. Both conclusions II and III follow.                      b. Both conclusions I and II follow.  
c. Both conclusions I and III follow.                      d. All conclusions follow.