

**Fully solved PSC question paper - 62**  
**Police Constable**  
**Exam held on 4-03-2006**

1. The part of the atmosphere in contact with the earth is:  
(a) Stratosphere (b) Troposphere (c) Mesosphere (d) Thermosphere
2. Kalamandalam Hyderali was associated with  
(a) Kathakali (b) Ottam Thullal (c) Koodiyattam (d) Kuchipudi
3. The acid present in red ants is:  
(a) Citric acid (b) Oleic acid (c) Formic acid (d) Acetic acid
4. The gravitational pull of the Moon is ..... the Earth's pull.  
(a) one-tenth of (b) same as (c) one-sixth (d) 3 times
5. Marble is a form of:  
(a) Calcium oxide (b) Calcium silicate  
(c) Calcium Hydroxide (d) Calcium Carbonate
6. Ottawa is the capital of:  
(a) Australia (b) Canada (c) Argentina (d) Bhuan
7. Abyssinia is the former name of :  
(a) Iran (b) U.A.E (c) Ethiopia (d) Jordan
8. The currency of France is:  
(a) Pound (b) Euro (c) Franc (d) Mark
9. Radioactivity was discovered by  
(a) Roentgen (b) Marie Curie (c) Henry Bacquerl (d) Ruther ford
10. India won World Cup Hockey Championship only once. It was at:  
(a) Amstelveen (b) Bombay (c) Sydney (d) Kuala Lumpur
11. Which of the following eye defects can be corrected by using convex lens?  
(a) Long sight (b) Short sight (c) Cataract (d) Glaucoma
12. The first Five Year Plan started in the year  
(a) 1947 (b) 1950 (c) 1951 (d) 1965
13. Jalianwalabagh is in:  
(a) Rajasthan (b) Punjab (c) Maharashtra (d) Karnataka

14. RDX is:  
(a) Readily Detonated Explosive (b) Remotely Detonated Explosive  
(c) Readily Destroyed Explosive (d) Research Department Explosive
15. The headquarters of the World Health Organisation is at:  
(a) Paris (b) Rome (c) Geneva (d) New York
16. Who among the following is known as Frontier Gandhi:  
(a) Khan Abdul Gaffar Khan (b) Mohamed Ali Jinnah  
(c) Moulana Abdul Kalam Azad (d) Raja Gopalachari
17. Who is the founder of Arya Samaj  
(a) Gopalakrishna Gokhale (b) Swami Dayananda Saraswathi  
(c) Raja Ram Mohan Roy (d) Swami Vivekananda
18. Wall Street is:  
(a) Stock Exchange market in New York  
(b) Stock Exchange market in Mumbai  
(c) Gold market in Mumbai  
(d) Gold market in London
19. The king who proclaimed the 'temple entry proclamation'  
(a) Sreemoolam Thirunal (b) Sree Chithira Thirunal  
(c) Marthandavarma (d) Swathi Thirunal
20. In which year Delhi became the capital of India?  
(a) 1911 (b) 1920 (c) 1932 (d) 1947
21. Knesset is the parliament of:  
(a) Japan (b) Iran (c) Israel (d) China
22. The first Vice President of India:  
(a) Dr. S. Radhakrishnan (b) V.V. Giri  
(c) Dr. Rajendraprasad (d) Mohamed Hidathulla
23. The Administrator of Andaman & Nicobar Islands is:  
(a) Governor (b) Governor General (c) Chairman (d) Lt. Governor
24. The inventor of C.T. Scan is:  
(a) Hounsefield (b) Sinclair (c) Horace short (d) Damadian
25. While light consists of seven colours, out of them which has the highest energy ?  
(a) Red (b) Violet (c) Blue (d) Green

26. 2005 Nobel prize in Literature was awarded to?  
(a) Guntergrass (b) Herold Pinter  
(c) Elfride Jelinek (d) Sir V.S. Naipal
27. When was radio broadcasting from Thiruvananthapuram started ?  
(a) 1965 (b) 1956 (c) 1931 (d) 1943
28. World Food Day is  
(a) March 8 (b) July 11 (c) October 16 (d) September 26
29. The film Nrimalyam was directed by:  
(a) Adoor Gopalakrishnan (b) G. Aravindan  
(c) M.T. Vasudevan Nair (d) Ramu Kariat
30. The author of the famous painting 'The Last Supper' is  
(a) Leonardo da Vinci (b) Raja Ravivarma  
(c) Picasso (d) Rafael
31. The first Chief Election Commissioner of India:  
(a) R.V.S. Periastrri (b) Sukumar Sen  
(c) Dr. Nagendra Singh (d) R.K. Trivedi
32. The retirement age of a High Court Judge is:  
(a) 55 (b) 58 (c) 60 (d) 62
33. The word netizen denotes a person who:  
(a) uses the internet regularly  
(b) in a citizen of a country other than his native country  
(c) has settled in another state from his home state  
(d) None of the above
34. The game chess had its origin in:  
(a) Russia (b) France (c) China (d) India
35. How many bones are there in the human body:  
(a) 427 (b) 206 (c) 103 (d) 68
36. The first Cricketer who complete 300 one day internationals.  
(a) Sachin Tendulkar (b) Wasim Akram  
(c) Brian Lara (d) Mohamed Azharudeen
37. Who published 'Horthus Malabaricus' ?  
(a) The Dutch (b) The Portugese (c) The French (d) The British

38. 'Kovilan' is the pen name of:  
(a) R.P. Parameswara Menon (b) P.C. Kuttykrishnan  
(c) V.V. Ayyappan (d) Moorkothu Ravunni Nair
39. Greger Mendel who did pioneering work on heredity was:  
(a) a monk (b) a physician (c) a statesman (d) a mason
40. Who among the following Mughal emperors was illiterate  
(a) Jahangir (b) Akbar (c) Shahjahan (d) Aurangaseb
41. Who is the first Education Minister of Kerala State?  
(a) K. Chandrasekharan (b) C.H. Muhmmmed Koya  
(c) K.M. George (d) Joseph Mundasseri
42. The Idukki dam is across the river:  
(a) Pampa (b) Periyar (c) Kabani (d) Kallada
43. What is the new game given to India's population control programme ?  
(a) Population Stabilization Programme  
(b) Family Planning Programme  
(c) Population Planning Programme  
(d) Family Welfare Programme
44. Which of the following is not authored by Jane Austen?  
(a) Pride and Prejudice (b) Sense and Sensibility  
(c) Sons and Lovers (d) Emma
45. Which district in Kerala has the highest population density ?  
(a) Malappuram (b) Alappuzha (c) Idukki (d) Trivandrum
46. Which among the following is not an official language of the U.N ?  
(a) Chinese (b) Arabic (c) Spanish (d) German
47. Which of the following countries is known as 'Cockpit of European' ?  
(a) Italy (b) Greece (c) Belgium (d) Germany
48. The first month of the Saka era is:  
(a) Phalguna (b) Chaithra (c) Vaishakha (d) Asadha
49. NAAC is associated with:  
(a) Grading of education institutions (b) Health care  
(c) Agricultural research (d) Industrial research

50. The winner of the Phalke award for 2004:  
 (a) Dev Anand (b) Mrinal Sen (c) Yash Chopra (d) Adoor
51. What is the common ratio of the progression,  $\sqrt{2}, \sqrt{6}, 3\sqrt{2}$  ?  
 (a)  $\sqrt{3}$  (b) 3 (c)  $\sqrt{2}$  (d) 2
52. If the base perimeter of a cylinder is  $2p$  cm and its height is 6 cm, what is the volume?  
 (a)  $6 \text{ cm}^2$  (b)  $12 \text{ cm}^3$  (c)  $12 \text{ cm}^2$  (d)  $6p \text{ cm}^3$
53. Find the sum of the  $n$  term of an arithmetic progression whose first term is  $a_1$  and the last term is  $a$ :  
 (a)  $\frac{1}{2}$  (b)  $\frac{n}{2}$  (c)  $\frac{1}{2}(a_n - a_1)$  (d)  $\frac{n}{2}(a_n - a_1)$
54. What is the slant height of square pyramid if its lateral edge is  $e$  and base edge is  $a$  ?  
 (a)  $\sqrt{e^2 + \left(\frac{a}{2}\right)^2}$  (b)  $\sqrt{e^2 + a^2}$  (c)  $\sqrt{e^2 - \left(\frac{a}{2}\right)^2}$  (d)  $\sqrt{e^2 - a^2}$
55. The volume of two hemisphere are in the ratio 8:27. What is the ratio of their radii ?  
 (a) 3:2 (b) 4:9 (c) 4:13 (d) 2:3
56. If  $\cos A = \frac{12}{13}$ , what is the value of  $\tan A$  ?  
 (a)  $\frac{5}{12}$  (b)  $\frac{12}{5}$  (c)  $\frac{13}{5}$  (d)  $\frac{5}{13}$
57. Convert 1011 into denary numeral  
 (a) 10 (b) 11 (c) 8 (d) 12
58. Which of the following can be measure of an angle inscribed in a minor arc?  
 (a)  $180^\circ$  (b)  $60^\circ$  (c)  $150^\circ$  (d)  $90^\circ$
59. What is the area of a triangle with sides 8cm, 6cm and the included angle  $60^\circ$ ?  
 (a)  $24\sqrt{\text{cm}^2}$  (b)  $48\sqrt{3\text{cm}^2}$  (c)  $16 \text{ cm}^2$  (d)  $12\sqrt{3\text{cm}^2}$

60. The assumed mean of ten scores is 35 and the total deviation of the scores from the assumed mean is 30. What is the arithmetic mean ?  
 (a) 38 (b) 32 (c) 33 (d) 65
61. Each of them ..... have political ambition.  
 (a) do (b) does (c) ought (d) dare
62. I am taller than you, .....  
 (a) aren't I? (b) amn't (c) am I ? (d) isn't it?
63. Mohan came late, ..... Ahmed  
 (a) in addition to (b) as well as (c) didn't and so did (d) and so did
64. Ganesh ..... come here every day.  
 (a) always (b) often (c) hardly (d) used to
65. By this time tomorrow, I ..... the job.  
 (a) will finish (b) shall finish  
 (c) will have finished (d) will be finishing
66. Since 1980 women's fashions ..... a lot.  
 (a) changed (b) have changed  
 (c) are changing (d) will have changed
67. She talks as though she ..... everything.  
 (a) knows (b) has known (c) knew (d) will know
68. We could buy a new car if only we ..... a little more money.  
 (a) had (b) had had (c) have had (d) have
69. He has hardly ..... money.  
 (a) any (b) some (c) a little (d) a lot of
70. The wind blew ..... the leaves fell.  
 (a) when (b) with (c) and (d) so
71. The word that is more or less similar in meaning to SOLACE is:  
 (a) Sleep (b) Relaxation (c) Holiday (d) disharmony
72. Rising prices ..... immediate measures.  
 (a) call over (b) call for (c) call in (d) call forth
73. He enquired ..... my health.  
 (a) to (b) after (c) into (d) of

74. They are not ..... all the facts.  
 (a) beware (b) aware for (c) aware of (d) beware of
75. A hundred rupees ..... all that he wants.  
 (a) are (b) were (c) was (d) is
76. Pick out the correct sentence from the following:  
 (a) Though he is poor, he is satisfied with his situation  
 (b) It is ten years ago since he left home  
 (c) I must reply to his letter  
 (d) Please meet the clerk home
77. Choose the word that can be substituted for “a large scale departure of People”.  
 (a) Migration (b) Immigration (c) Retreat (d) Exodus
78. “The captain played with determination because the honour of the team was at stake”. What does at stake mean ?  
 (a) In danger (b) Appropriate (c) At the top (d) Very low
79. “Take the tablets before meals’ said the doctor.  
 The indirect form is:  
 (a) The doctor told me that I took the tablets before meals  
 (b) The doctor wanted to take the tablets before meals  
 (c) The doctor told me to take the tablets before meals  
 (d) According to the doctor the tablets were to taken before meals
80. Combine the following pair of sentence into one complex sentence:  
 He said something I did not hear it.  
 Choose the correct answer from the following.  
 (a) I did not hear what he said  
 (b) He said something, but I did nor hear it  
 (c) I did not hear the thing he said  
 (d) He had said something I had not hear
81. Which among the following is same as Wrestling, Karate, Boxing ?  
 (a) Swimming (b) Polo (c) Pole Vault (d) Judo
82. Choose the old pair of words that does not belong to the set.  
 (a) Volume : Litre (b) Pressure : Barometer  
 (c) Length : Meter (d) Time : Second

83. Which is different from others ?  
 (a) BD (b) PN (c) IK (d) SU
84. Venus is to earth as Mercury is to .....  
 (a) Sun (b) Pluto (c) Moon (d) Mars
85. Newspaper : Press : Cloth : .....  
 (a) Tailor (b) Textile (c) Factory (d) Mill
86. Mathematics is related to Numbers in the same way as History is related to .....  
 (a) People (b) Dates (c) Events (d) Wars
87. Which of the following is related as Chalk:Blackboard?  
 (a) Ink : Paper (b) Door : Handle (c) Table : Chair (d) Type : Paint
88. Which of the following is same as Flood, Fire, Cyclone?  
 (a) Damage (b) Rain (c) Accident (d) Earthquake
89. A man is facing South. He turns  $135^\circ$  in the anticlockwise direction and  $180^\circ$  in the clockwise direction. In which direction he is facing Now?  
 (a) North-East (b) North-West (c) South-West (d) South-East
90. Select the pair which has the same relationship as the pair of words:  
 Eyes : Tears  
 (a) Sea : Water (b) Volcano : Lava (c) Heart : Artery (d) Hunger : Food
91. Which of the following is same as Sitar : Guitar : Thampuru ?  
 (a) Trumpet (b) Harmonium (c) Mridangam (d) Violin
92. Which is the irregular member in the following group?  
 (a) LMST (b) EDKL (c) NMUV (d) QPRS
93. Choose the pair in which the words are differently related :  
 (a) Shirt : Dress (b) Boy : Girl  
 (c) Mango : Fruit (d) Table : Furniture
94. Choose the word which is least like the other words in the group:  
 (a) X-ray (b) Telephone (c) Radio (d) Television
95. CIRCLE is related to RICELC in the same way as SQUARE is related to .....  
 (a) QSQUARE (b) QUSERA (c) UQSAER (d) UQSERA



96. Choose the one which is least like the others in the set.  
 (a) Pistol (b) Gun (c) Sword (d) Cannon
97. In a certain code FORGE is written as FPTJL. How is CULPRIT is written?  
 (a) CSJNPGR (b) CVNSVNZ (c) CNMQSTU (d) CXOSULW
98. If ENGLAND is coded as 123456 and FRANCE is coded as 785291, how is GREECE coded ?  
 (a) 381191 (b) 381171 (c) 831171 (d) 835545
99. Rahul is ranked ninth from the top and thirty-eighth from the bottom in a class. How many students are there in the class ?  
 (a) 45 (b) 48 (c) 46 (d) 47
100. Pointing to a man Rita said "He is the brother of the daughter of the wife of my husband". How is the man related to Rita ?  
 (a) Husband (b) Cousin (c) Hephew (d) Son

### Police Constable 4-03-2006

1. (b) 2. (a) 3. (c) 4. (c) 5. (d) 6. (b) 7. (c) 8. (b) 9. (c)  
 10. (d) 11. (a) 12. (c) 13. (b) 14. (d) 15. (c) 16. (a) 17. (b) 18. (a)  
 19. (b) 20. (a) 21. (c) 22. (a) 23. (d) 24. (a) 25. (a) 26. (b) 27. (d)  
 28. (c) 29. (c) 30. (a) 31. (b) 32. (d) 33. (a) 34. (d) 35. (b) 36. (b)  
 37. (a) 38. (c) 39. (a) 40. (b) 41. (d) 42. (b) 43. (d) 44. (c) 45. (b)  
 46. (d) 47. (c) 48. (b) 49. (a) 50. (d) 51. (a) 52. (d) 53. (b) 54. (c)  
 55. (d) Volume of Hemisphere

$$\frac{2}{3} \pi r_1^3 = \left(\frac{2}{3} \pi r_2^3\right)$$

$$= r_1^3 : r_2^3 = 8 : 27$$

$$= r_1 : r_2 = \sqrt[3]{8} = \sqrt[3]{27}$$

$$= 2 : 3$$

$$56. (a) \quad \cos A = \frac{12}{13}$$

We know that  $\sin^2 A + \cos^2 A = 1$

$$\sin^2 A = 1 - \cos^2 A$$

$$= 1 - \left(\frac{12}{13}\right)^2$$

$$= 1 - \frac{144}{169}$$

$$= \frac{169 - 144}{169}$$

$$= \frac{25}{169}$$

$$\sin A = \frac{5}{13}$$

$$\tan A = \frac{\sin A}{\cos A} = \frac{5}{13} \times \frac{13}{12} = \frac{5}{12}$$

$$57. (b) \quad 58. (d)$$

$$59. (d) \quad \frac{1}{2} bh \sin \theta$$

$$\frac{1}{2} \times 8 \times 6 \times \sin 60$$

$$\frac{1}{2} \times 48 \times \frac{\sqrt{3}}{2}$$

$$= 12\sqrt{3} \text{ cm}^2$$

$$60. (a) \quad 35 \times 10 + 30 = 380 = \frac{380}{10} = 38$$

$$61. (b) \quad 62. (a) \quad 63. (d) \quad 64. (d) \quad 65. (c) \quad 66. (b) \quad 67. (c) \quad 68. (a)$$

$$69. (a) \quad 70. (d) \quad 71. (b) \quad 72. (b) \quad 73. (b) \quad 74. (c) \quad 75. (d) \quad 76. (c)$$

$$77. (d) \quad 78. (a) \quad 79. (c) \quad 80. (b) \quad 81. (d) \quad 82. (b) \quad 83. (b) \quad 84. (a)$$

$$85. (d) \quad 86. (c) \quad 87. (a) \quad 88. (d) \quad 89. (c) \quad 90. (b) \quad 91. (d) \quad 92. (a)$$

$$93. (b) \quad 94. (a) \quad 95. (d) \quad 96. (c) \quad 97. (b) \quad 98. (a) \quad 99. (c) \quad 100. (d)$$