PREVIOUS YEAR PAPER

MP Police Constable 2017 — 28 August 2017, Shift 1

MP Police Constable · 28 August 2017 · 09:00 AM

79 of the paper's 100 questions · marks per question not printed on the question booklet

Left out of the original paper: 21 (any question that needs a figure, a symbol or formatting we cannot show, or whose text did not read back cleanly from the booklet).

Questions from the Professional Examination Board, Madhya Pradesh (now the MP Employees Selection Board)'s paper of 28 August 2017, 09:00 AM. Each question is followed by its answer, and the answer key is repeated on the last page.

Take it as a timed practice test: exambharo.com/mp-police-constable/previous-year-papers/mp-police-constable-2017-28-aug-shift-1/

General Knowledge and Logical Knowledge

1. Which of the following is NOT a capital of any State in India?
   (a) Allahabad
   (b) Ranchi
   (c) Raipur
   (d) Dehradun
   Answer: (a)

2. Which country won the Women's Asian Champions ophy Hockey tournament in 2016?
   (a) China
   (b) India
   (c) Japan
   (d) Korea
   Answer: (b)

3. Which medal did Ajay Singh win in the Asian Youth and Junior Weightlifting Championships held in July, 2017?
   (a) Silver
   (b) Gold
   (c) No medal
   (d) Bronze
   Answer: (d)

4. Kundhei, Gombeyatta, and Bommalattam are forms of which of the following arts?
   (a) Folk Dance
   (b) Folk Theatre
   (c) Folk Stories
   (d) Puppeteering
   Answer: (d)

5. Arya Samaj was established in
   (a) 1875
   (b) 1881
   (c) 1872
   (d) 1880
   Answer: (a)

6. India's largest museum is located at
   (a) Kolkata
   (b) Chennai
   (c) Bengaluru
   (d) Delhi
   Answer: (a)

7. Chief minister of Madhya Pradesh during 1977-78 and a member of the BJP was
   (a) Ram Vilas Paswan
   (b) A B Vajpayee
   (c) Kailash Chandra Joshi
   (d) Digvijaya Singh
   Answer: (c)

8. In which district of Madhya Pradesh is the Gun Car ge Factory located?
   (a) Barwani
   (b) Gwalior
   (c) Jabalpur
   (d) Bhopal
   Answer: (c)

9. From which facility was Mangalyaan launched?
   (a) Thumba Equatorial Rocket Launching Station, Thiruvananthapuram
   (b) ISRO Satellite Centre, Bengaluru
   (c) Satish Dhawan Space Centre, Sriharikota
   (d) Laboratory for Electro-Optics Systems, Bengaluru
   Answer: (c)

10. Who is the current speaker of Lok Sabha?
   (a) Sumitra Mahajan
   (b) Meira Kumar
   (c) Somnath Chatterjee
   (d) Sushma Swaraj
   Answer: (a)

11. Who proposed the 'Wardha' scheme of Basic Education ?
(a) S.N. Banerjee
(b) Vinoba Bhave
(c) Mahatma Gandhi
(d) Lala Lajpat Rai
Answer: (c)

12. Which major river flows between the Vindhya and the Satpura Mountain ranges?
(a) Narmada
(b) Ken
(c) Tap
(d) Sons
Answer: (a)

13. Who is the founder of 'Bachpan Bachao Andolan'?
(a) Medha Patkar
(b) Kailash Satyarthi
(c) Kran Shah
(d) Shantha Sinha
Answer: (b)

14. Which sacred town is nestled in Northern Vindhya
(a) Ujjain
(b) Chitrakoot
(c) Sanchi
(d) Shivpuri
Answer: (b)

15. Omkareshwar temple is located on the banks on _____river.
(a) Narmada
(b) Tapthi
(c) Gomathi
(d) Triveni
Answer: (a)

17. Which of the following States has been ranked as the most farmer-friendly State by the NITI Aayog?
(a) Rajasthan
(b) Madhya Pradesh
(c) Maharashtra
(d) Punjab
Answer: (c)

19. Which State created history by winning the Ranji Trophy for the first me in 2017?
    (a) Jharkhand
    (b) Gujarat
    (c) Kerala
    (d) Assam
    Answer: (b)

20. Which Indian Badminton player has been named the Member of the IOC Athlete's Commission?
    (a) Srikanth Kidambi
    (b) Prakash Padukone
    (c) P V Sindhu
    (d) Saina Nehwal
    Answer: (d)

21. Select the option that is true about the Statements and Conclusions given:

Statements:

Mango is sweet

All fruits are sweet

Conclusions:

I. Mango is a fruit

II. All sweets are fruits
    (a) both conclusion I and II follows
    (b) neither conclusion I nor conclusion II follows
    (c) only conclusion I follows
    (d) only conclusion II follows
    Answer: (b)

22. Select the option that is true about the Statements and Conclusions given:

Statements:

All policies are laws

No law is a rule

Conclusions:

I. No policy is a rule

II. No rule is law

(a) both conclusion I and II follows
(b) neither conclusion I nor conclusion II follows
(c) only conclusion I follows
(d) only conclusion II follows

Answer: (a)

23. Select the option that is true about the Statements and Conclusions given:

Statements:

All beaches are beautiful

Colva is a beach

Conclusions:

I. Colva is beautiful

II. Parks are not beautiful

(a) both conclusion I and II follows
(b) neither conclusion I nor conclusion II follows
(c) only conclusion II follows
(d) only conclusion I follows

Answer: (d)

24. Tanmay started from his house and went 2 km straight. He then turned towards his right and went 1 km. He turned again towards his right and went 1 km. If Tanmay is north-west from his house, then in which direction did he go in the beginning?

(a) west
(b) south – east
(c) south
(d) north – east

Answer: (a)

25. In the following question, some group of letters is given, all of which, except one, share a common similarity while one is different.

Choose the odd one out:

(a) QOM
(b) IKG
(c) RTW
(d) IKM

Answer: (c)

26. Find the odd one out:

115, 113, 110, 103, 98, 87, 74

(a) 98
(b) 103
(c) 113
(d) 110

Answer: (b)

27. Complete the series choosing the missing number:

1, 6, 15, _____, 45, 66, 91

(a) 28
(b) 26
(c) 27
(d) 25

Answer: (a)

28. Complete the series choosing the missing number:

2, 5, 8, _____, 14, 17

(a) 12
(b) 10
(c) 11
(d) 9

Answer: (c)

29. Complete the series choosing the missing number:

3, 7, 15, 31, _____

(a) 63
(b) 62
(c) 60
(d) 65

Answer: (a)

32. Complete the series choosing the missing letter/s:

abc __ d __bc __d __ b __ cda

(a) d, e, c, b, d
(b) d, a, c, a, b
(c) c, d, a, b, e
(d) b, a, c, d, e

Answer: (b)

33. Select the option that is true about the Statements and Conclusions given:

Statements:

Some pastes are creams

Lime is a paste

Conclusions:

I. Some creams are pastes

II. Some creams are not pastes

(a) both conclusion I and II follows
(b) neither conclusion I nor conclusion II follows
(c) only conclusion I follows
(d) only conclusion II follows

Answer: (c)

35. If COLLEGE is coded BNKKDFD, then how is SCHOOL coded?

(a) RDGNNK
(b) RBHNNK
(c) TBGNNK
(d) RBGNNK

Answer: (d)

39. If NEST is coded MCPP, then how is QUICK coded?

(a) PSFYF
(b) KIQUC
(c) TWKEM
(d) RVJDL

Answer: (a)

40. IfMARKET is coded PEOGHX, then how is FLOWERS coded?

(a) IPLSHVP

(b) IPLSGVP

(c) IPLTHUP

(d) IPNTHVP

Answer: (a)

Mental Ability and Mental Aptitude

4. How much of pure alcohol has to be added to 500 ml of a solution that contains 10% alcohol in order to change the concentration of alcohol in the mixture of 20%?

(a) 60 ml

(b) 62.5 ml

(c) 45.5 ml

(d) 50 ml

Answer: (b)

5. The price of a vegetable increases by 30 %. If the expenditure has to be maintained at the original level, then the reduction in consumption in percentage has to be:

(a) 40.5 %

(b) 23.0 %

(c) 38.5 %

(d) 42.5 %

Answer: (b)

6. A shopkeeper allows a discount of 15% to [illegible]omers. If the cost price of an article is Rs. 600 and he intends to make a profit of 70% on his outlay, what should be the marked price of the article?

(a) Rs. 1020

(b) Rs. 1100

(c) Rs. 1200

(d) Rs. 900

Answer: (c)

7. A man sells a car to his friend at the loss of 10 %; who in return sells it for Rs. 54000 making a profit of 20 %. What was the initial value of the car?

(a) Rs. 50,000

(b) Rs. 25,000

(c) Rs. 37,500

(d) Rs. 60,000

Answer: (a)

8. A tap can fill a tank in 8 hrs. After half the tank is filled, three more similar taps are opened. What is the total time taken to fill the tank completely?

(a) 6 hrs
(b) 5 hrs
(c) 3 hrs
(d) 4 hrs

Answer: (b)

9. The ratio between the present ages of P and Q is 5 : 7 respectively. If the difference between Q's present age and P's age after 6 years is 2, what is the total of P's and Q's present age?

(a) 24 years
(b) 12 years
(c) 48 years
(d) 36 years

Answer: (c)

11. Average of 10 number is 50. If one number is excluded, then the average declines by 1. What will be the number that is excluded?

(a) 40
(b) 59
(c) 66
(d) 75

Answer: (b)

12. A thief steals a car at 10 a.m. and drives at 60 mph. The theft is discovered at 11 a.m. and the owner sets off immediately in another car at [illegible]. When will he be able to catch up with the thief?

(a) 1:00 pm
(b) 12:00 noon
(c) 3:00 pm
(d) 2:45 pm

Answer: (c)

13. If the sum of square of the age of a person today, after one year and after two years is equal to 2030. Find the present age of the person.

(a) 23
(b) 27
(c) 25
(d) 30

Answer: (c)

14. If the product of three numbers is 30,870 and the numbers are in the ratio 2 : 5 : 9, then the largest of them is

(a) 7
(b) 14
(c) 63
(d) 35

Answer: (c)

15. Mr. Raghu age is one-third of his eldest sister's age today, but it will be half her age after five years from today. What is the age of Mr. Raghu's sister?

(a) 15 years
(b) 25 years
(c) 20 years
(d) 10 years

Answer: (a)

16. Jason Clive sold two of his racehorses for USD 9,975 each. In selling one, he had made a profit of 5%, but he had incurred 5% loss in selling the other. Overall, how much profit or loss did he make?

(a) No profit, no loss
(b) 0.5% profit
(c) 0.25% loss
(d) 0.25% profit

Answer: (c)

17. The average height of three students A, B and C is 148 cm. If the average height of A and B is 142 cm and that of B and C is 145 cm, then the height of B is:

(a) 144 cm
(b) 140 cm
(c) 130 cm
(d) 150 cm

Answer: (c)

18. The average of 25 items is 30. The average of first 12 item is 20 and the average of last 12 items is 25. Find the value of 13th item.

(a) 215
(b) 200
(c) 210
(d) 205

Answer: (c)

19. The average of 6 results is 8. The average of first 2 is 7.5. What is the average of the remaining four?

(a) 6.25
(b) 8.25
(c) 4.25
(d) 5.25

Answer: (b)

20. The ages of Bharathi and Geetha are in the ratio of 3 : 5. After ten years, if the ratio of their ages become 2 : 3, then the present age of Bharathi is

(a) 30 years
(b) 35 years
(c) 25 years
(d) 20 years

Answer: (a)

21. A and B participate in a 1 km race. The ratio of their speeds 9 : 10. A is given a handicap of 100 meters. What will be the distance between the two when the winner breasts the tape?

(a) 20 m
(b) 15 m
(c) 0 m
(d) 10 m

Answer: (c)

22. Find the length of the arc that subtends an angle of 120 degree at the center of a circle of radius 14cm.

(a) 132 cm
(b) 29.33 cm
(c) 98 cm
(d) 44 cm

Answer: (b)

23. If 9 workers are required to make 27 tables in 12 days, then how many workers will be required to make 16 tables in 16 days?

(a) 4
(b) 16
(c) 12
(d) 8

Answer: (a)

24. If 20 cows eat 380 bales of hay in 15 days; then, how many bales of hay will 15 cows eat in 10 days?

(a) 190
(b) 210
(c) 320
(d) 165

Answer: (a)

26. Find the average.

44, 91, 11, 55, 66 & 39

(a) 51
(b) 54
(c) 45
(d) 49

Answer: (a)

27. What is the time taken by two trains of lengths 100 m and 200 m, moving in opposite directions with speeds of 100 kms and 80 kms to pass each other?

(a) 7 sec
(b) 8 sec
(c) 6 sec
(d) 5 sec

Answer: (c)

28. Which of the following pair has the same ratio as 1180 : 1652?

(a) 875 : 1400
(b) 1260 : 900
(c) 625 : 875
(d) 900 : 1200

Answer: (c)

30. What will be the last digit, when you expand 825.

(a) 4
(b) 6
(c) 1
(d) 8

Answer: (d)

Science and Simple Arithmetic

7. Fresh milk has a pH of 6, as it turns into curd the pH will:

(a) Not be measured

(b) Not change

(c) Decrease

(d) Increase

Answer: (c)

8. If the volume of a cube is 125 cu m, then what is its total surface area?

(a) 180 sq cm

(b) 150 sq cm

(c) 300 sq cm

(d) 120 sq cm

Answer: (b)

9. If three observations are 80 , 82, and 70, and the fourth one is twice the fifth observation, and its average is given as 95, then the two observations are:

(a) 82 and 164

(b) 72 and 144

(c) 80 and 160

(d) 81 and 162

Answer: (d)

10. What sum of money will amount to Rs. 2508.80 at % p. a. compounded annually in two year of time?

(a) Rs. 2400

(b) Rs. 4000

(c) Rs. 2000

(d) Rs. 3200

Answer: (c)

11. The area of a parallelogram with base 8 cm and the distance between the parallel sides = 5cm, is:

(a) 22 sq cm

(b) 20 sq cm

(c) 40 sq cm

(d) 42 sq cm

Answer: (c)

12. By selling a bicycle for Rs. 819, Vinay loses 9%. At what rate should he sell it to make a profit of 5%?

(a) Rs. 965

(b) Rs. 945

(c) Rs. 900

(d) Rs. 968

Answer: (b)

13. The bending of light rays when they travel from one medium to other medium is called_____.
    (a) Reflection
    (b) Polarization
    (c) Interference
    (d) Refraction
    Answer: (d)

14. Which of the following statement is incorrect regarding friction?
    (a) It is caused by the interlocking of the irregularities on the surfaces
    (b) It is caused by the force of adhesion between the surfaces
    (c) It is a necessary evil
    (d) It does not cause wastage of energy
    Answer: (d)

15. What does upper and lower layer of cells in leaves do?
    (a) All of the above
    (b) Regulate the water content only
    (c) Protect the inner parts only
    (d) Exchange of gases only
    Answer: (a)

16. What happens when unlike charges come togethe
    (a) Always repel each other
    (b) Always attract each other
    (c) Can attract or repel depending on th[illegible] of charge
    (d) Can attract or repel depending on the natu[illegible] of material possessing the charge
    Answer: (b)

17. Ignition temperature of a substance is the _____.
    (a) highest temperature produced on combustion of that substance
    (b) temperature at which a fuel becomes gas
    (c) minimum temperature required for combustion of that substance
    (d) average temperature produced on combustion of that substance
    Answer: (c)

18. Size of cells are measured in_____.
    (a) Millimetre
    (b) Centimetre
    (c) Metre
    (d) Microns
    Answer: (d)

19. The strength of the magnetic field due to a solenoid can be increased by:
    (a) By winding solenoid on a plastic rode
    (b) Decreasing the current strength in the solenoid
    (c) Decreasing the number of turns of the solenoid
    (d) Increasing the number of turns of the solenoid

    Answer: (d)

20. Find out the mismatched set of muscle features.
    (a) Skeletal – voluntary
    (b) Skeletal – striped
    (c) Smooth – unstriped
    (d) Smooth – voluntary

    Answer: (d)

21. Name the longest cell in human.
    (a) Nerve cell
    (b) Muscle cell
    (c) Hair cell
    (d) Mycoplasma

    Answer: (a)

22. If the polynomial is divided with
    (a) 0
    (b) 5
    (c) 3
    (d) 2

    Answer: (a)

23. If the angles of a quadrilateral are in the ratio 2:4: 5:7, then the largest angle is:
    (a) 40
    (b) 100
    (c) 145
    (d) 140

    Answer: (d)

24. In a rhombus ABCD, if AC = 12 cm, BD = 16 cm, then AB = _____.
    (a) 12 cm
    (b) 10 cm
    (c) 15 cm
    (d) 14 cm

    Answer: (b)

25. Spirogyra : multicellular alga :: _____ : unicellular alga
    (a) Chlamydomonas
    (b) Porphyra
    (c) Ulothrix
    (d) Sargassum

    Answer: (a)

26. Plastics are very useful and extensively used these days because they are:
    (a) Light weight and strong
    (b) Good absorbents of water
    (c) Good conductors of heat and electricity
    (d) Chemically reactive

    Answer: (a)

28. In our country, vast tracts of forests are cleared and a single species of plant is cultivated. This practice promotes:
    (a) Monoculture in the area
    (b) Preserves the natural ecosystem in the area
    (c) Biodiversity in the area
    (d) Growth of natural forest

    Answer: (a)

29. The structures that increase the surface area of nange of gases in the body are _____.
    (a) Bronchioles
    (b) Alveoli
    (c) Lungs
    (d) Trachea

    Answer: (b)

30. The term 'semi-permeable' is used for:
    (a) Cell wall
    (b) Cell membrane
    (c) Mitochondria
    (d) Lysosomes

    Answer: (b)

Answer key

Answer key from the Professional Examination Board, Madhya Pradesh (now the MP Employees Selection Board)'s official answer key for this sitting. "—" means the key gave none.

General Knowledge and Logical Knowledge

1	**(a)**	2	**(b)**	3	**(d)**	4	**(d)**	5	**(a)**	6	**(a)**
7	**(c)**	8	**(c)**	9	**(c)**	10	**(a)**	11	**(c)**	12	**(a)**
13	**(b)**	14	**(b)**	15	**(a)**	17	**(c)**	19	**(b)**	20	**(d)**
21	**(b)**	22	**(a)**	23	**(d)**	24	**(a)**	25	**(c)**	26	**(b)**
27	**(a)**	28	**(c)**	29	**(a)**	32	**(b)**	33	**(c)**	35	**(d)**
39	**(a)**	40	**(a)**								

Mental Ability and Mental Aptitude

4	**(b)**	5	**(b)**	6	**(c)**	7	**(a)**	8	**(b)**	9	**(c)**
11	**(b)**	12	**(c)**	13	**(c)**	14	**(c)**	15	**(a)**	16	**(c)**
17	**(c)**	18	**(c)**	19	**(b)**	20	**(a)**	21	**(c)**	22	**(b)**
23	**(a)**	24	**(a)**	26	**(a)**	27	**(c)**	28	**(c)**	30	**(d)**

Science and Simple Arithmetic

7	**(c)**	8	**(b)**	9	**(d)**	10	**(c)**	11	**(c)**	12	**(b)**
13	**(d)**	14	**(d)**	15	**(a)**	16	**(b)**	17	**(c)**	18	**(d)**
19	**(d)**	20	**(d)**	21	**(a)**	22	**(a)**	23	**(d)**	24	**(b)**
25	**(a)**	26	**(a)**	28	**(a)**	29	**(b)**	30	**(b)**		