PREVIOUS YEAR PAPER

# MP Police Constable 2017 — 22 August 2017, Shift 2

MP Police Constable · 22 August 2017 · 03:00 PM

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

Left out of the original paper: 24 (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 22 August 2017, 03:00 PM. 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-2017-22-aug-shift-2/

## General Knowledge and Logical Knowledge

2. Leather complex in Madhya Pradesh has been established at _____.

(a) Dewas
(b) Ujjain
(c) Chhindwara
(d) Shajapur

**Answer: (a)**

3. Which was the first English newspaper in India?

(a) Bengal Gazette
(b) Deccan Chronical
(c) The Hindu
(d) The Times of India

**Answer: (a)**

4. Which state in India is Bounded by Karnataka in the North, Tamil Nadu in the east and the Arabian sea in the west?

(a) Gujarat
(b) Andhra Pradesh
(c) Kerala
(d) Maharashtra

**Answer: (c)**

5. Which city was the capital of Odisha before India became independent in 1947?

(a) Sambalpur
(b) Cuttack
(c) Puri
(d) Bhubaneswar

**Answer: (b)**

6. Article 80 of the Constitution lays down the maximum strength of Rajya Sabha as:
   (a) 250
   (b) 565
   (c) 525
   (d) 545
   **Answer: (a)**

7. Tansen Samaroh is held at _____ district in Madhya Pradesh.
   (a) Rewa
   (b) Bhind
   (c) Bhopal
   (d) Gwalior
   **Answer: (d)**

8. Major portion of river Mahanadi lies in the state of ?
   (a) Chhattisgarh
   (b) Jharkhand
   (c) Orissa
   (d) Madhya Pradesh
   **Answer: (a)**

9. The largest district in Madhya Pradesh by area is _ __.
   (a) Sagar
   (b) Sidhi
   (c) Chhindwara
   (d) Betul
   **Answer: (c)**

10. The famous Grand Trunk Road from Peshawar to Calcutta was built by:
   (a) Allauddin Khilji
   (b) Muhammand bin Tuqhluq
   (c) Balban
   (d) Sher Shah Suri
   **Answer: (d)**

11. The Brand Ambassador for the Government of India’s campaign against “Hepatitis B’ is: / ‘
   (a) Amir Khan
   (b) Amitabh Bachchan
   (c) Vidhya Balan
   (d) Salman Khan
   **Answer: (b)**

12. The Aadhar based mobile payment application launched by India Government is called_____.
    (a) SAMAY
    (b) ARJUN
    (c) SAKSHAT
    (d) BHIM
    **Answer: (d)**

13. Who is the Speaker of Lok Sabha?
    (a) Sumitra Mahajan
    (b) P J Kurien
    (c) Arun Jaitley
    (d) Sushma Swaraj
    **Answer: (a)**

14. Who was the first speaker of the Lok sabha?
    (a) Neelam Sanjeeva Reddy
    (b) Ganesh Vasudev Mavalankar
    (c) K.S Hegde
    (d) Hukum Singh
    **Answer: (b)**

15. Who was the first Indian to win the Nobel Prize?
    (a) Rabindranath Tagore
    (b) S S Bhatnagar
    (c) J. C. Bose
    (d) C.V. Raman
    **Answer: (a)**

16. Madhav sanctuary is located in _____.
    (a) Sagar
    (b) Hoshangabad
    (c) Sidhi
    (d) Shivpuri
    **Answer: (d)**

17. Who is the first woman president of India?
    (a) Sarojini Naidu
    (b) Sharda Mukherjee
    (c) Sarla Grewal
    (d) Pra bha Pa l
    **Answer: (d)**

19. Where is ISRO's Vikram Sarabhai Space Centre located?

(a) Mahendragiri
(b) Thiruvananthapuram
(c) Bangalore
(d) Sriharikota

**Answer: (b)**

20. If SYMBOL is coded LOMBYS, then how is LIQUID coded?

(a) DLIUQI
(b) DIQUIL
(c) DIUQIL
(d) DULIQI

**Answer: (b)**

21. Six friends are seated around a circular table. It is known that L is seated between P and N; Q is seated to the right of O; and M is seated between N and O. Find the friend who is seated between L and Q.

(a) M
(b) N
(c) P
(d) O

**Answer: (c)**

22. If ORBIT is coded BEOVG, then how is PLANET ...ed?

(a) CYNARG
(b) CONAVG
(c) CYNAVG
(d) XONARG

**Answer: (a)**

23. If EXIST is written FZLWY, then how is SOLUTION coded?

(a) TQOYYOVV
(b) TQOYXUVV
(c) TQOYYOUV
(d) TQQYYUUV

**Answer: (a)**

25. In a certain code language, tama sama lama means very nice friend, seme sama sooma means nice and sweet, and teks tama tuna means very hard surface. Which is the word for lama in that code language?

(a) sweet
(b) nice
(c) hard
(d) friend

**Answer: (d)**

26. Find the odd one out:

2, 2, 4, 4, 6, 8, 12, 16

(a) 16
(b) 6
(c) 12
(d) 8

**Answer: (c)**

27. Complete the series choosing the missing number:

2, 6, 14, 30, 62, 126, _____

(a) 248
(b) 252
(c) 250
(d) 254

**Answer: (d)**

28. Complete the series choosing the missing number:

5, 6, 9, 16, _____

(a) 31
(b) 27
(c) 32
(d) 30

**Answer: (a)**

29. Complete the series choosing the missing number:

7, 15, 32, _____, 138, 281

(a) 67
(b) 43
(c) 58
(d) 75

**Answer: (a)**

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

Statements:

Some boats are ships

No ship is a submarine

Conclusions:

I. Some boats are submarines

II. All boats are submarines

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

**Answer: (d)**

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

Statements:

All TVs are VCRs

Some Radios are VCRs

Conclusions:

I. Some VCRs are Radios

II. Some TVs are Radios

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

**Answer: (c)**

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

Statements:

All songs are poems

All poems are operas

Conclusions:

I. All operas are songs

II. All songs are operas

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

**Answer: (b)**

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

Statements:

All tomatoes are vegetables

Some vegetables are fruits

Conclusions:

I. Some tomatoes are fruits

II. Some fruits are tomatoes

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

**Answer: (d)**

34. How many ways can the letters of the word 'MANAGER' be rearranged, so that the 'GER' will always come together?

(a) 480
(b) 240
(c) 360
(d) 120

**Answer: (c)**

39. 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) AE
(b) IO
(c) AI
(d) EI

**Answer: (c)**

40. The first Chief Minister of Madhya Pradesh state was

(a) Ravishankar Shukla
(b) Shivaji Rao
(c) Kailash Nath Katju
(d) Dwarka Prasad Mishra

**Answer: (a)**

## Mental Ability and Mental Aptitude

6. If X is 90 % of Y, what percentage of X is Y?

(a) 90
(b) 101.1
(c) 111.1
(d) 190

**Answer: (c)**

9. A number is such that 8 times the sum of its digit equals the number. If 45 is subtracted from it the digits are reversed. What is the number?

(a) 23
(b) 27
(c) 32
(d) 72

**Answer: (d)**

10. If 17 % of P is same as 13 % of Q, then the ratio of Q : P is:

(a) 17 : 13
(b) 13 : 5
(c) 13 : 17
(d) 5 : 13

**Answer: (a)**

11. The average of three consecutive numbers is 27. Find the new average when all three numbers are decreased by 3 each.

(a) 24
(b) 28
(c) 26
(d) 30

**Answer: (a)**

12. What number is such that its 12 % is 252?

(a) 2000
(b) 2400
(c) 1800
(d) 2100

**Answer: (d)**

13. B is twice as old as A today. In 10 years, the ratio of ages of A and B will be 2:3. Find the present age of B.

(a) 12
(b) 10
(c) 20
(d) 15

**Answer: (c)**

14. A can do a piece of work in 15 days which B alone can do in 10 days. A started the work and B joined him after 5 days. Find the number of days taken to complete the work.

(a) 4 days
(b) 9 days
(c) 10 days
(d) 15 days

**Answer: (b)**

15. A can do a work in 15 days and B in 20 days. Both of them work for 6 days then the remaining work is:

(a) 7/10
(b) 3/10
(c) 1/2
(d) 2/5

**Answer: (b)**

16. Ashok brought a gift article and spent Rs. 110 on its repair. He then sold it to Bhushan at a profit of 20%. Bhushan sold it to Charan at a loss of 10%, and Charan sold the same for Rs. 1188 at a profit of 10%. How much did Ashok pay for the article?

(a) Rs. 790
(b) Rs. 890
(c) Rs. 690
(d) Rs. 990

**Answer: (b)**

17. A boat travels at a speed of 14 kmph upstream and 22 kmph downstream. What is the speed of the stream?

(a) 4 kmph
(b) 14 kmph
(c) 8 kmph
(d) 16 kmph

**Answer: (a)**

18. If the sides of an equilateral triangle are increased by 20 %, then by how much percent will the area of the triangle increase?

(a) 40%
(b) 44%
(c) 48%
(d) 20%

**Answer: (b)**

19. The ratio of the speeds of two trains is 7 . . e second train covers 400 km in 5 hr, then the speed of the first train is

(a) 76 kmph
(b) 70 kmph
(c) 50 kmph
(d) 62 kmph

**Answer: (b)**

20. The LCM of 3p, 6p, and 9p is:

(a) 18
(b) 18p
(c) 19
(d) 19p

**Answer: (b)**

21. When you reverse the digits of age of father, you will get the age of son. One year ago the age of father was twice that of son's age. What are the current ages of father and son respectively?

(a) 24 and 42
(b) 31 and 13
(c) 45 and 54
(d) 73 and 37

**Answer: (d)**

22. The sum of three numbers is 90. If the ratio between the first and the second number is 2 : 3; and the ratio between the second and the third number is 3 : 5; then, what is the third number?

(a) 75
(b) 45
(c) 27
(d) 15

**Answer: (b)**

23. The sum of two numbers is 15 and the sum of their squares is 113. The numbers are:

(a) 6, 9
(b) 5, 10
(c) 7, 8
(d) 4, 11

**Answer: (c)**

24. The sum of two numbers is 1000. If 40 % of one number is equal to 60 % of the other, then the numbers are:

(a) 600, 400
(b) 500, 500
(c) 800, 200
(d) 700, 300

**Answer: (a)**

26. Find the average.

31, 40, 49, 58, 67 & 79

(a) 49
(b) 54
(c) 57
(d) 60

**Answer: (b)**

27. A train crosses a platform of 200 m long in 90 seconds at a speed of 60 kmph. The time taken by the train to cross an electric pole is _____.

(a) 78 sec
(b) 30 sec
(c) 52 sec
(d) 62 sec

**Answer: (a)**

28. A grain merchant sold 600 quintals of rice at a profit of 7 %. If a quintal of rice costs him Rs. 1600, find his total profit and his selling price respectively.

(a) Rs. 77,200, and Rs. 9,27,200
(b) Rs. 57,200, and Rs. 8,27,200
(c) Rs. 62,200, and Rs. 7,27,200
(d) Rs. 67,200, and Rs. 10,27,200

**Answer: (d)**

29. Six years ago, the ratio of the ages of Ramesh and Sundar was 6 : 5. Four years hence, the ratio of their ages will be 11 : 10. What is the present age of Sundar?

(a) 16 years
(b) 20 years
(c) 18 years
(d) None of the above

**Answer: (a)**

30. Which of the following is less than 9 ⅜

(a) 82 / 9
(b) 40 / 4
(c) 85 / 6
(d) 30 / 2

**Answer: (a)**

## Science and Simple Arithmetic

7. If the total surface area of a cuboid of length 6 cm and breadth 5 cm is 126 sq cm, then its height is:

(a) 5 cm
(b) 3.5 cm
(c) 4 cm
(d) 3 cm

**Answer: (d)**

8. In a rhombus ABCD, if AC = 8cm, BD = 6cm, then AB =_____.

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

**Answer: (b)**

9. The liquid fuel among the following is:

(a) Coke
(b) Diesel
(c) Natural gas
(d) Coal

**Answer: (b)**

10. How do water droplets form on the outer surface of a bottle containing cold water?

(a) The water vapour present in the bottle condenses and penetrates outside.
(b) The water vapour present in the air condenses on the surface of the bottle.
(c) The water inside the bottle evaporates and appear as water droplets.
(d) The water vapour present in air evaporates and sticks on the surface of the bottle.

**Answer: (b)**

11. In a nuclear reactor, a coolant is used to:

(a) Cool the hot steam and condense it to water
(b) Cool generator coils and prevent overheatir
(c) Make steam to run turbines
(d) Transfer heat from reactor to water in heat exchanger

**Answer: (d)**

12. Khadins, Bundhis, Ahars and Kattas are ancient structures that are examples for:

(a) Soil conservation
(b) Wood storage
(c) Grain storage
(d) Water harvesting

**Answer: (d)**

13. Most of the algae have chlorophyll as the main pigment and additional pigments. The pigment present in brown algae (in addition to chlorophyll) is:

(a) Fucoxanthophyll
(b) Phycoerythrin
(c) Phycocyanin
(d) Anthocyanin

**Answer: (a)**

14. One cannot stop food after swallowing because of the:
(a) Involuntary nature of intestine
(b) Mucous lining
(c) Saliva secretion
(d) Voluntary nature of intestine
**Answer: (a)**

15. If the adjacent angles of a parallelogram are in the ratio 3:2, then the larger angle is:
(a) 72
(b) 108
(c) 54
(d) 36
**Answer: (b)**

17. Space is left between logs of wood when they are burnt, so that:
(a) It can reach its ignition temperature
(b) Consumption of wood would be less
(c) It helps movement of air for it to burn
(d) Burning takes place slowly
**Answer: (c)**

18. The one's digit in the cube of 38 is:
(a) 6
(b) 7
(c) 4
(d) 2
**Answer: (d)**

19. The perimeter of a parallelogram is 150 cm. if one of its side is greater than the other by 25 cm, then the smaller side is:
(a) 25cm
(b) 75 cm
(c) 45cm
(d) 50cm
**Answer: (a)**

20. Find the cost price, if SP = Rs. 670 and its loss = 4%.
(a) Rs. 658.92
(b) Rs. 95.92
(c) Rs. 697.92
(d) Rs. 47.92
**Answer: (c)**

22. What does the height of the rectangle in a histogram show?
    (a) The upper limit of the class
    (b) The width of the class
    (c) The frequency of the class
    (d) The lower limit of the class
    **Answer: (c)**

23. A powerful magnet loses its magnetism when:
    (a) A high mechanical stress is applied on it
    (b) A high electric field is applied on it
    (c) It is heated to very high temperature
    (d) It is buried inside the earth for a long time
    **Answer: (c)**

24. Which one of the following is rigid, non-living freely permeable and mainly composed of cellulose?
    (a) Tonoplast
    (b) Nuclear membrane
    (c) Cell wall
    (d) Plasma membrane
    **Answer: (c)**

25. What is the function of the nucleus?
    (a) It controls only the division of cells
    (b) It controls only certain specific func
    (c) It controls all the activities of a cell
    (d) It has no specific function
    **Answer: (c)**

26. Which of the following celestial bodies are also known as shooting stars?
    (a) Meteorites
    (b) Satellites
    (c) Comets
    (d) Asteroids
    **Answer: (a)**

27. Bone is connected to another bone by:
    (a) Cartilage
    (b) Tendons
    (c) Ligaments
    (d) Both tendons and ligaments
    **Answer: (c)**

28. The incident ray, the reflected ray and normal at the point of incidence lie in the_____.
    (a) different media
    (b) different plane
    (c) same plane
    (d) same surface

    **Answer: (c)**

30. The type of fertilization that takes place in human being is:
    (a) External fertilization
    (b) Internal fertilization
    (c) Spore formation
    (d) Cloning

    **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

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | **(a)** | 3 | **(a)** | 4 | **(c)** | 5 | **(b)** | 6 | **(a)** | 7 | **(d)** |
| 8 | **(a)** | 9 | **(c)** | 10 | **(d)** | 11 | **(b)** | 12 | **(d)** | 13 | **(a)** |
| 14 | **(b)** | 15 | **(a)** | 16 | **(d)** | 17 | **(d)** | 19 | **(b)** | 20 | **(b)** |
| 21 | **(c)** | 22 | **(a)** | 23 | **(a)** | 25 | **(d)** | 26 | **(c)** | 27 | **(d)** |
| 28 | **(a)** | 29 | **(a)** | 30 | **(d)** | 31 | **(c)** | 32 | **(b)** | 33 | **(d)** |
| 34 | **(c)** | 39 | **(c)** | 40 | **(a)** | | | | | | |

## Mental Ability and Mental Aptitude

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | **(c)** | 9 | **(d)** | 10 | **(a)** | 11 | **(a)** | 12 | **(d)** | 13 | **(c)** |
| 14 | **(b)** | 15 | **(b)** | 16 | **(b)** | 17 | **(a)** | 18 | **(b)** | 19 | **(b)** |
| 20 | **(b)** | 21 | **(d)** | 22 | **(b)** | 23 | **(c)** | 24 | **(a)** | 26 | **(b)** |
| 27 | **(a)** | 28 | **(d)** | 29 | **(a)** | 30 | **(a)** | | | | |

## Science and Simple Arithmetic

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | **(d)** | 8 | **(b)** | 9 | **(b)** | 10 | **(b)** | 11 | **(d)** | 12 | **(d)** |
| 13 | **(a)** | 14 | **(a)** | 15 | **(b)** | 17 | **(c)** | 18 | **(d)** | 19 | **(a)** |
| 20 | **(c)** | 22 | **(c)** | 23 | **(c)** | 24 | **(c)** | 25 | **(c)** | 26 | **(a)** |
| 27 | **(c)** | 28 | **(c)** | 30 | **(b)** | | | | | | |