PREVIOUS YEAR PAPER

MP Police Constable 2017 — 1 September 2017, Shift 1

MP Police Constable · 1 September 2017 · 09:00 AM

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

Left out of the original paper: 30 (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 1 September 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-2017-1-sep-shift-1/

General Knowledge and Logical Knowledge

1. Name the city in which Indian Military Academy (IMA) is located?
   (a) Mumbai
   (b) Pune
   (c) Delhi
   (d) Dehradun
   Answer: (d)

2. Name India’s first mapping satellite?
   (a) CARTOSAT-I
   (b) Bhaskara I
   (c) None of These
   (d) INSAT_IC
   Answer: (a)

3. If GATE is coded HBUF, then how is DEGREE coded?
   (a) EFHSFF
   (b) EEHTFE
   (c) EEHTFF
   (d) EFHTFE
   Answer: (a)

4. Which of the following Indian musicians has not received a Bharat Ratna?
   (a) Ravi Shankar
   (b) Lata Mangeshkar
   (c) Bhimsen Joshi
   (d) Mohammad Rafi
   Answer: (d)

5. Pachmarhi is located in

(a) Shahpura
(b) Hoshangabad
(c) Bhojpura
(d) Anuppur

Answer: (b)

6. Pench Hydroelectric Project is a joint project of which two states?

(a) Madhya Pradesh and Rajasthan
(b) Madhya Pradesh and UP
(c) Madhya Pradesh and Maharashtra
(d) Madhya Pradesh and Chhattisgarh

Answer: (c)

7. Sanctuary that is located in Urmaria is____ Sanctuary.

(a) Bandhavgarh
(b) Son
(c) Ghatigaon
(d) Kanha

Answer: (a)

8. The Ashoka Pillar whose lion capital was adopted by the Government of India as National Emblem, is situated at

(a) Sarnath
(b) Gaya
(c) Puri
(d) Varanasi

Answer: (a)

9. The 9th President of India, born in Bhopal was

(a) Fakhruddin Ali Ahmed
(b) Pratibha Patil
(c) Shankar Dayal Sharma
(d) Kailash Nath Katju

Answer: (c)

10. Who is the President of Hockey India?

(a) P R Sreejesh
(b) Mariamma Koshy
(c) Narinder Batra
(d) Pargat Singh

Answer: (b)

11. Who among the following has not been the President of India?
    (a) Zakir Husain
    (b) N. Sanjeeva Reddy
    (c) V.V. Giri
    (d) C. Rajagopalachari
    Answer: (d)

12. Who is the Deputy Chairman of the Rajya Sabha?
    (a) Sumitra Mahajan
    (b) Hamid Ansari
    (c) P J Kurien
    (d) Arun Jaitley
    Answer: (c)

13. National Emergency can be declared by
    (a) Parliament
    (b) Law minister
    (c) The President
    (d) Prime Minister
    Answer: (c)

14. Madhav national park in Shivpuri was established ne year
    (a) 1978
    (b) 1958
    (c) 2008
    (d) 1998
    Answer: (b)

15. The longest road tunnel in India is
    (a) Jawahar tunnel
    (b) Chenani-Nashri tunnel
    (c) Bhatan tunnel
    (d) Natuwadi tunnel
    Answer: (b)

17. Find the odd one out:

11, 22, 33, 44, 55, 65, 77
    (a) 77
    (b) 22
    (c) 65
    (d) 33
    Answer: (c)

19. ICC Cricketer of the Year – 2016 was
(a) R Ashwin
(b) M S Dhoni
(c) Virat Kohli
(d) Cheteshwar Pujara
Answer: (a)

21. First Kuldip Nayar Journalism Award was conferred on_____
(a) Mrinal Pande
(b) Raghu Rai
(c) Ravish Kumar
(d) Prabhash Joshi
Answer: (c)

22. Who was the first vice-president of India?
(a) S Radhakrishnan
(b) Zakir Hussain
(c) V V Giri
(d) B D Ja
Answer: (a)

23. _____ was honoured with the Jnanapith Award – 16
(a) Girish Karnad
(b) Bishnu Dey
(c) Shankha Ghosh
(d) Namwar Singh
Answer: (c)

24. Complete the series choosing the missing number:

2, 4, 6, 8, _____
(a) 10
(b) 11
(c) 9
(d) 12
Answer: (a)

25. Complete the series choosing the missing number:

3, 6, 9, _____, 15
(a) 10
(b) 11
(c) 12
(d) 13
Answer: (c)

26. Complete the series choosing the missing number:

3, 9, 27, _____, 243

(a) 72
(b) 81
(c) 90
(d) 75

Answer: (b)

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

Statements:

All bulls are cows

Some bulls are not tailors

Conclusions:

I. All tailors are cows

II. All cows are tailors

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

Answer: (c)

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

Statements:

All hotels are restaurants

All restaurants are parks

Conclusions:

I. No parks are hotels

II. All hotels are parks

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

Answer: (a)

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

Statements:

Some packets are not kids

All packets are flies

Conclusions:

I. Some flies are not kids

II. All flies are packets

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

Answer: (b)

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

Statements:

Some books are magazines

All magazines are articles

Conclusions:

I. Some books are articles

II. All books are articles

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

Answer: (b)

33. IfINSERT is coded JQXLAE, then how is WINDOW coded?

(a) XLTKYH
(b) XLSKXH
(c) XLSKYH
(d) XMSKYG

Answer: (b)

34. If HAND is coded ICQH, then how is ZIPPER coded?

(a) AJSTFS
(b) AJQQJX
(c) AJQQFS
(d) AKSTJX

Answer: (d)

36. In a certain code language,accept my offer means septa fok cofon, pay my bill means doka fok toda, pay by cash means zoda toda foda. Which is the word for bill in that code language?

(a) doka
(b) foda
(c) fok
(d) septa

Answer: (a)

37. In a certain code language, dada nana papa means sell and buy, nana nina nona means buy good shirt, and sida dada noda means play and enjoy. Which is the word for papa in that code language?

(a) buy
(b) sell
(c) and
(d) shirt

Answer: (b)

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

Choose the odd one out:

(a) NML
(b) XWV
(c) OPQ
(d) HGF

Answer: (c)

39. Leena and Meena are standing at a point with their backs together. Meena walks 6m straight ahead and turns left and walks another 8m. Leena walks 4m forward eastwards. Then she takes a turn towards left and walks 1m, turns left again and walks 4m and then 1m towards left again.

How far is Leena from Meena and in which direction?

(a) 10 m, north
(b) 10 m, south – west
(c) 8 m, south – east
(d) 5 m, north – west

Answer: (b)

Mental Ability and Mental Aptitude

5. Two groups containing same number of people have an average age of 50 and 60. Find the average age of the two groups combined.

(a) 60 yrs
(b) 55 yrs
(c) 50 yrs
(d) 52 yrs

Answer: (b)

6. If 19 years are subtracted from the present age of Madan and the remainder is divided by 18, the present age of Madan's grandson Naman is obtained. If the sum of ages of Madan and Naman is 114, then find the age of Madan.

(a) 109
(b) 101
(c) 80
(d) 76

Answer: (a)

7. Simple interest on Rs. 1800 at 18% per annum for 9 months is:

(a) Rs. 191
(b) Rs. 243
(c) Rs. 108
(d) Rs. 120

Answer: (b)

11. Goods are sold so that when 2 % is taken off the selling price, a profit of 40 % is realized. By what percent is the sale price higher than the cost price?

(a) 66.66 %
(b) 51.5 %
(c) 30 %
(d) 42.8 %

Answer: (d)

13. The ra o of the areas of two circles is 16 : 25. What will be the ra o of their circumference?

(a) 6 : 9
(b) 4 : 3
(c) 12 : 15
(d) 4 : 5

Answer: (d)

14. The average of 10 numbers is 45. If each number is increased by 20 %, then the new average of the numbers is _____.

(a) 45
(b) 70
(c) 54
(d) 65

Answer: (c)

15. The average age of class teacher and 10 students in a class is 25 years, which is reduced by 2 years if the age of the class teacher is excluded. What is the age of class teacher?

(a) 38
(b) 43
(c) 40
(d) 45

Answer: (d)

16. On selling a rickshaw for Rs. 2,640, Sanjay loses 12 %. If he wanted to gain 12 %, for how much should he have sold the rickshaw?

(a) Rs. 3,160
(b) Rs. 3,360
(c) Rs. 3,460
(d) Rs. 3,260

Answer: (b)

18. The cost price of 20 televisions is the s[illegible]n as [illegible] selling price of 16. What is the percentage of profit? 20

(a) 22.5%
(b) 17.5%
(c) 20%
(d) 25%

Answer: (d)

19. What is the length of a cylindrical wire of radius 3 mm that can be drawn from a copper sphere of radius 21cm?

(a) 137200 km
(b) 536 cm
(c) 1372 m
(d) 563 m

Answer: (c)

20. What is the distance traveled by the 7 inches long-hour hand of a clock between 06:00 a.m. and 08:00 p.m.?

(a) 45 inches
(b) 44 inches
(c) 51.33 inches
(d) 7.33 inches

Answer: (c)

23. In a party, where there were 200 guests, 60 % had vegetarian food, and 50 % had non vegetarian, 30 % of guest had both vegetarian and non-vegetarian food. How many people did not dine at the party?

(a) 45
(b) 40
(c) 35
(d) 30

Answer: (b)

24. If the sum of the ages of Ram and Sam is 12 years more than the sum of the ages of Sam and Tom; then, by how many years is Tom younger to Ram?

(a) 6
(b) 10
(c) 12
(d) 15

Answer: (c)

28. Find the average.

7, 21, 43, 61, 82 & 74

(a) 44
(b) 48
(c) 49
(d) 52

Answer: (b)

29. A man walks 5 km towards the south, turns right walks 3 km, then again turns left and walks 4 km and turns left to walk for another 3 km and stops. What is the minimum distance has he travelled between his starting point and ending point?

(a) 5 km
(b) 9 km
(c) 15 km
(d) 10 km

Answer: (b)

Science and Simple Arithmetic

4. Peptic ulcers are caused by _____.
   (a) Tetanus
   (b) Protozoan
   (c) Virus
   (d) Helicobacter pylori
   Answer: (d)

5. If the unit's digit of a cube of a number is 9, then the unit digit of its cube root is:
   (a) 6
   (b) 7
   (c) 9
   (d) 8
   Answer: (c)

7. Lignite, bituminous and anthracite are different ranks of:
   (a) Coal
   (b) Natural gas
   (c) Bio gas
   (d) Nuclear fuel
   Answer: (a)

8. The preferred mirror used for shaving is:
   (a) Convex mirror
   (b) Concave mirror
   (c) Plane mirror
   (d) Parabolic mirror
   Answer: (b)

9. The material used for making electrical fuse wire should have:
   (a) Low melting point
   (b) Low conductivity
   (c) High melting point
   (d) High resistance
   Answer: (a)

11. Seeded plants are placed in _____ .
   (a) Pteridophyta
   (b) Fungi
   (c) Algae
   (d) Phanerogam
   Answer: (d)

12. The chemical process that release energy in a cell is called_____.

(a) photosynthesis

(b) diges on

(c) breathing

(d) metabolism

Answer: (d)

14. Which of the following combinations are not present in animal cell?

(a) Golgi bodies and vacuole

(b) Cell and plastid

(c) Mitochondria and nucleus

(d) Cytoplasm and cell membrane

Answer: (b)

15. At what rate of compound interest pa will Rs. 1250 amount to Rs. 1800 in two years?

(a) 18%

(b) 12%

(c) 20%

(d) 15%

Answer: (c)

16. The lengths of two parallel sides of a trapezium ar ð cm and 64 cm. If the distance between parallel sides is 20 cm, then its area is:

(a) 5000 sq cm

(b) 4000 sq cm

(c) 4528 sq cm

(d) 4200 sq cm

Answer: (b)

18. If the adjacent sides of a rectangle are in the ratio 2:3, and its area is 96 sq cm, then its perimeter is:

(a) 40 cm

(b) 60 cm

(c) 50 cm

(d) 45 cm

Answer: (b)

19. If the total surface area of a cubical open water tank is 720 sq m, then what is the capacity of the tank in litres?

(a) 1728 litres

(b) 1.728 litres

(c) 1728000 litres

(d) 1000 litres

Answer: (b)

20. If the average of five observations is 22, where four of its observations are 18, 21, 19 and 24, then the fifth observation is:

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

Answer: (a)

21. If in a quadrilateral, the three angles are 85, 72 and 138, respectively, then the fourth angle is:

(a) 65
(b) 78
(c) 75
(d) 60

Answer: (a)

22. The area of a triangular region with base 32 cm is 288 sq cm. Then its height is:

(a) 15 cm
(b) 16 cm
(c) 18 cm
(d) 36 cm

Answer: (c)

23. The area of a rectangle is 400sq m. If the sides are doubled, then the area is:

(a) 160 sq m
(b) 1800 sq m
(c) 16000 sq m
(d) 1600 sq m

Answer: (d)

24. Santhosh bought a refrigerator for Rs. 9000 and was forced to sell it for Rs. 8100. Then the loss percentage is:

(a) 10%
(b) 12%
(c) 8%
(d) 9%

Answer: (a)

25. Kerosene burns more rapidly than coal because:

(a) it has low calorific value
(b) it has more oxygen in it than coal
(c) it has low ignition temperature
(d) it is a liquid hydrocarbon

Answer: (c)

26. Identify the substance that cannot be degraded by microorganisms.
    (a) Dead animals
    (b) Vegetable peels
    (c) Empty glass bottles
    (d) Decaying plants

    Answer: (c)

27. 10 ml of a solution of NaOH neutralises 7 ml of a given solution of HCl , then 20 ml of the same solution of NaOH requires ____ ml of HCl solution to neutralize.
    (a) 20
    (b) 14
    (c) 10
    (d) 7

    Answer: (b)

28. Airplanes have streamline shape, so that they can overcome the_____.
    (a) frictional force of air
    (b) sliding friction
    (c) static friction
    (d) rolling friction

    Answer: (a)

29. The double helical structure of DNA was propos[illegible]y Watson and Crick in the year _____.
    (a) 1953
    (b) 1997
    (c) 1856
    (d) 1962

    Answer: (a)

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	**(d)**	2	**(a)**	3	**(a)**	4	**(d)**	5	**(b)**	6	**(c)**	7	**(a)**	8	**(a)**
9	**(c)**	10	**(b)**	11	**(d)**	12	**(c)**	13	**(c)**	14	**(b)**	15	**(b)**	17	**(c)**
19	**(a)**	21	**(c)**	22	**(a)**	23	**(c)**	24	**(a)**	25	**(c)**	26	**(b)**	27	**(c)**
28	**(a)**	29	**(b)**	30	**(b)**	33	**(b)**	34	**(d)**	36	**(a)**	37	**(b)**	38	**(c)**
39	**(b)**														

Mental Ability and Mental Aptitude

5	**(b)**	6	**(a)**	7	**(b)**	11	**(d)**	13	**(d)**	14	**(c)**	15	**(d)**	16	**(b)**
18	**(d)**	19	**(c)**	20	**(c)**	23	**(b)**	24	**(c)**	28	**(b)**	29	**(b)**		

Science and Simple Arithmetic

4	**(d)**	5	**(c)**	7	**(a)**	8	**(b)**	9	**(a)**	11	**(d)**	12	**(d)**	14	**(b)**
15	**(c)**	16	**(b)**	18	**(b)**	19	**(b)**	20	**(a)**	21	**(a)**	22	**(c)**	23	**(d)**
24	**(a)**	25	**(c)**	26	**(c)**	27	**(b)**	28	**(a)**	29	**(a)**				