PREVIOUS YEAR PAPER

MP Police Constable 2017 — 20 August 2017, Shift 1

MP Police Constable · 20 August 2017 · 09:00 AM

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

Left out of the original paper: 27 (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 20 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-2017-20-aug-shift-1/

General Knowledge and Logical Knowledge

1. If SIKKIM is coded THLJJL, then how is MANIPUR coded?
   (a) NZOHQTQ
   (b) NZOHQTS
   (c) NBOHQTQ
   (d) NZOJQTQ
   Answer: (b)

2. Which of these is the largest continent in terms of area?
   (a) Australia
   (b) Asia
   (c) Africa
   (d) Europe
   Answer: (b)

3. Jamni is a river which originates in
   (a) Sagar
   (b) Ujjain
   (c) Rewa
   (d) Betul
   Answer: (a)

4. The Governor of a State is appointed by
   (a) Chief Justice
   (b) The Prime Minister
   (c) The Vice-President
   (d) The President
   Answer: (d)

5. The Tibetan name of which of the Mountain means ‘Goddess Mother of the World’?
   (a) Mount Godwin Austen
   (b) Mount Everest
   (c) Satpura
   (d) Kanchenjunga
   Answer: (b)

6. The Indore gharana well-known for singing khyals was founded by
   (a) Alladiya Khan
   (b) Ram Sahai
   (c) Amir Khan
   (d) Miyan Bakshu
   Answer: (c)

7. The recipient of the Dadasaheb Phalke Award for 2016 is _____?
   (a) Parikshit Sahni
   (b) Tapan Sinha
   (c) None of the Above
   (d) K. Vishwanath
   Answer: (d)

8. Origin of river Tapti is in
   (a) Multai
   (b) Raisen District
   (c) Moorum Nalla
   (d) Amarkantak
   Answer: (a)

9. Bori Wildlife Sanctuary is in which district?
   (a) Jhabua
   (b) Hoshangabad
   (c) Dhar
   (d) Rajgarh
   Answer: (b)

10. Who was popularly called as Sister Nivedita?
   (a) Margaret Noble
   (b) Sarojini Naidu
   (c) Lady Mountbatten
   (d) Annie Besant
   Answer: (a)

11. Who is the Chairperson of NITI Aayog?
    (a) Narendra Modi
    (b) Arvind Panagariya
    (c) Arvind Subramanian
    (d) Rajiv Kumar
    Answer: (a)

12. Who was the first Indian to win an Oscar?
    (a) AR Rehman
    (b) Amir Khan
    (c) Satyajit Ray
    (d) Bhanu Athaiya
    Answer: (d)

13. National Defence Academy is situated at
    (a) Kolkata
    (b) Mumbai
    (c) Pune
    (d) Dehradun
    Answer: (d)

15. Who is always considered to be the ancient music genius in Gwalior?
    (a) Tansen
    (b) Tulasi Das
    (c) Sant Kabir
    (d) Meera Bai
    Answer: (a)

16. Find the odd one out:

3, 7, 13, 20, 31, 43, 57
    (a) 20
    (b) 31
    (c) 7
    (d) 43
    Answer: (a)

17. Who wrote the famous drama like Abhigyanam Shakuntalam, Kumarasambhavam and Raghuvamsam?
    (a) Kalidasa
    (b) Tulidas
    (c) Kumara Vysasa
    (d) Kabir
    Answer: (a)

20. Complete the series choosing the missing number:

5, 9, 17, 29, _____

(a) 45
(b) 50
(c) 40
(d) 42

Answer: (a)

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

__ aaba __ aa__ __aa

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

Answer: (d)

22. Complete the series choosing the missing number:

2, 5, 9, 14, _____, 27

(a) 19
(b) 20
(c) 18
(d) 22

Answer: (b)

23. Which country won the Men's Asian Champions Trophy Hockey tournament in 2016?

(a) China
(b) India
(c) Pakistan
(d) Bangladesh

Answer: (b)

24. Who was the first Chief Justice of India?

(a) Patanjali Sastri
(b) Harilal J Kania
(c) M Hidayatullah
(d) B K Mukherjee

Answer: (b)

25. Where is the headquarters of the North Eastern Railways?
    (a) Hajipur
    (b) Kolkata
    (c) Jabalpur
    (d) Gorakhpur
    Answer: (d)

26. “Vande Mataram” was written by
    (a) Rabindranath Tagore
    (b) H.N. Chattopadhyaya
    (c) Bankim Chandra Chatterjee
    (d) Sri Aurobindo
    Answer: (c)

28. If PLUTO is coded PTULO, then how is EXIST coded?
    (a) ETXSI
    (b) SITEX
    (c) STIXE
    (d) ESIXT
    Answer: (d)

29. If VIRUS is coded WGUQX, then how is ELEMENT coded?
    (a) FJHIIHA
    (b) FJHJJHA
    (c) FJHIJGA
    (d) FJHIJHA
    Answer: (d)

30. Complete the series choosing the missing number:

1, 9, 17, 33, _____, 73
    (a) 45
    (b) 50
    (c) 49
    (d) 60
    Answer: (c)

31. In a certain code language, jes nor tec means knowledge is truth, tep lec niz means never seek violence, and dom tec kan means speak the truth, lec jes par means always seek knowledge. Which is the word for always in that code language?
    (a) tec
    (b) lec
    (c) par
    (d) jes
    Answer: (c)

32. In a certain code language,listen to music means listo meg sunim, come to Pune means mombo meg pono, I like music means kono misto listo. Which is the word for sunim in that code language?

(a) music
(b) listen
(c) mombo
(d) like

Answer: (b)

33. 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) UWY
(b) PRT
(c) MNO
(d) ACE

Answer: (c)

34. 103rd Session of the Indian Science Congress was held in

(a) Tirupa
(b) Mysore
(c) Bhopal
(d) Ranchi

Answer: (b)

36. Select the option that is true about the Statemen and Conclusions given:

Statements:

Some animals are birds

All creatures are birds

Conclusions:

I. All animals are birds

II. Some birds are creatures

(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)

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

Statements:

Some squares are rectangles

All rectangles are parallelograms

Conclusions:

I. All parallelograms are rectangles

II. Some parallelograms are rectangles

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

Answer: (b)

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

Statements:

Some worms are caterpillars

Some caterpillars are butterflies

Conclusions:

I. Some butterflies are not caterpillars

II. Some caterpillars are worms

(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)

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

Statements:

All purses are handbags

Some handbags are backpacks

Conclusions:

I. Some purses are backpacks

II. Backpacks which are handbags are not purses

(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)

Mental Ability and Mental Aptitude

5. At present a father's age is three times that of his son. 15 years hence, the father's age would be twice the age of his son. How old is the father at pres ?

(a) 40
(b) 55
(c) 45
(d) 60

Answer: (c)

6. A man walks four kilometres northwards, turns to his right and walks another three kilometers. What is the minimum distance between his starting and ending points?

(a) 3 km
(b) 5 km
(c) 7 km
(d) 4 km

Answer: (b)

7. Mabel bought two varieties of buns in the ratio 3 : 2 at USD 2 and 1.50 each respectively. She intends to make 25% profit. What should be the selling price per dozen?

(a) USD 30
(b) USD 32
(c) USD 27
(d) USD 25

Answer: (c)

8. A thief steals a car at 10 a.m. and drives it at 60 kmph. The theft is discovered at 11 a.m., and the owner sets off in another car. At what speed should the owner runs the car to catch the thief at 12.30 p.m.?

(a) 70 kmph
(b) 75 kmph
(c) 80 kmph
(d) 100 kmph

Answer: (d)

9. If 10 unskilled workers finish a job in 4 days, how many additional skilled workers should be hired, who are twice efficient than unskilled workers to finish the job in 2 days.

(a) 2
(b) 12
(c) 10
(d) 5

Answer: (d)

10. A tank is 3/5 full. Pipe A can fill a tank in 10 min and Pipe B can empty it in 6 min. If both the pipes are left open, how long will it take to empty the tank completely?

(a) 12 min
(b) 5 min
(c) 7 min
(d) 9 min

Answer: (d)

11. If two numbers are greater than a third nu[illegible] 35% and 55%, respectively, what is the ratio of these two numbers?

(a) 9 : 11
(b) 7 : 11
(c) 11 : 7
(d) 27 : 31

Answer: (d)

12. Mean of 60 observations is 66. Later, it was found that an observation 24 was wrongly taken as 42. What is the corrected mean?

(a) 65.7
(b) 61.2
(c) 58.5
(d) 55

Answer: (a)

13. A is two years older to B who is twice as old as C. If the sum of the ages of A, B and C is 27, then how old is B?

(a) 7

(b) 10

(c) 9

(d) 8

Answer: (b)

14. X takes 4 days to complete one-third of a piece of work; Y takes 3 days to complete one-sixth of the same work; and Z takes 5 days to complete half of the work. If all the three work together for 3 days and X and Z quit, how long will it take for Y to complete the remaining task alone?

(a) 6 days

(b) 7 days

(c) 8.1 days

(d) 5.1 days

Answer: (d)

16. A class has 20 boys and 20 girls. The average age of girls in a class is 16 years and average age of boys in the class in 17 years. One girl and one boy leave the class and the average age of the girls reduced by 1 year and that of boys reduced by 2 years. Find the new average age of the whole class.

(a) 15.5 years

(b) 22 years

(c) 10.5 years

(d) 20 years

Answer: (a)

17. Hansa's mother was 31 years old when she was born. Hansa's father was 35 years old when her brother who is 3 years younger to Hansa was born. Find the difference between the ages of Hansa's parents.

(a) 2

(b) 1

(c) 0

(d) 5

Answer: (b)

18. Due to the hike in crude oil prices, the petrol price in India rose by 10 %. Before the rise, the price was Rs. 70/litre. Mr. Khanna commutes to work every day in his car from MG Road to Electronic City, which comes to around 1000kms per month at a mileage of 14 km/liter. Calculate how much of travelling must he reduce to nullify the effect.

(a) 91 km

(b) 100 km

(c) 88 km

(d) 80 km

Answer: (a)

19. A mixture contains milk and water in the ratio 5 : 3. If 5 litres of milk is added to the mixture, the ratio becomes 7 : 3. What is the quantity of milk in the new mixture?

(a) 20 litres
(b) 12.5 litres
(c) 17.5 litres
(d) 15 litres

Answer: (c)

20. Milk contains 5% of water. What quantity of pure milk should be added to 8 liters of milk to reduce this to 4%?

(a) 3 liters
(b) 4 liters
(c) 1 liters
(d) 2 liters

Answer: (d)

22. Baskar is five times as old as his sister. After ten years, he would be thrice as old as what she would be then. What is the present age of Baskar?

(a) 40 years
(b) 45 years
(c) 50 years
(d) 55 years

Answer: (c)

23. Twelve books were sold at a price that equals the cost price of a certain number of books, thereby gaining 16.66 %. The selling price of [illegible]s is equal to the cost price of how many books?

(a) 6
(b) 24
(c) 18
(d) 14

Answer: (d)

25. Find the value of the question mark (?) in the following equation.

4024+1632+15% of 1496 = ?

(a) 5860
(b) 5880
(c) 5860.4
(d) 5880.4

Answer: (d)

27. Find the average.

14, 22, 38, 58, 78 & 24

(a) 39
(b) 41
(c) 38
(d) 35

Answer: (a)

28. Present ages of X and Y are in the ratio 5 : 6 respectively. Seven years hence this ratio will become 6 : 7 respectively. What is X's present age in years?

(a) 40 years
(b) 15 years
(c) 35 years
(d) 25 years

Answer: (c)

29. What will be the last digit, when you expand 8224?

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

Answer: (b)

30. The average stock value of three comp[illegible]ies U[illegible] and W is 545 billion. While the average stock value of three companies V, X and Y is 678 b[illegible].ock value of company V is 477 billion. What is the average stock value of U, V, W, X and Y?

(a) 687.5
(b) 611.5
(c) 678.5
(d) 638.4

Answer: (d)

Science and Simple Arithmetic

10. If twice the square root of a number is 42, then the number is:

(a) 324
(b) 441
(c) 484
(d) 289

Answer: (b)

12. Most of the fossil fuels have:

(a) Degeneration

(b) Spontaneous combustion

(c) Explosion

(d) Rapid combustion

Answer: (d)

13. If the adjacent sides of a parallelogram are in the ratio 4 : 5 having perimeter 180 cm, then its sides are:

(a) 40 cm and 50 cm

(b) 32 cm and 40 cm

(c) 44 cm and 55 cm

(d) 36 cm and 45 cm

Answer: (a)

15. A person standing on the bank of a river observes a fish inside the water. He sees the fish_____.

(a) At the same depth but on the right hand side of the original position

(b) At its original position

(c) Just above the original position

(d) Just below the original position

Answer: (c)

16. The area of a rhombus whose diagonals are 18 c[illegible]nd 12 cm is _____. :

(a) 108 sq cm

(b) 124 sq cm

(c) 96 sq cm

(d) 120 sq cm

Answer: (a)

17. If length : breadth : height is 3 : 2 : 1, respectively, for a cuboid with volume 48 cu cm, then what will be its lateral surface area?

(a) 40 sq cm

(b) 60 sq cm

(c) 80 sq cm

(d) 30 sq cm

Answer: (a)

19. Select the largest cell from the following?

(a) Cheek cell

(b) Nerve cell

(c) Muscle cell

(d) Bone cell

Answer: (b)

20. Which one of the following is not an eukaryotic cell?
    (a) Fungi
    (b) Animals
    (c) Plants
    (d) Bacteria
    Answer: (d)

21. Heart is made up of _____.
    (a) None of the above
    (b) Connective tissue
    (c) Muscular tissue
    (d) Nervous tissue
    Answer: (c)

22. Spot the false options about striped muscle.
    (a) Attached to bones
    (b) Voluntary
    (c) Involuntary
    (d) Striated
    Answer: (c)

23. From the given list, name the item that is not a nat l resource.
    (a) Electricity
    (b) Water
    (c) Air
    (d) Soil
    Answer: (a)

24. The function of transporting digested food, CO2 and nitrogenous waste in the dissolved form is performed by _____ of the blood.
    (a) Plasma
    (b) RBC
    (c) WBC
    (d) Lymph
    Answer: (a)

25. If the ratio of the area of two circles is 49:81, then the ratio of their circumference is:
    (a) 49:81
    (b) 3:4
    (c) 7:9
    (d) 9:7
    Answer: (c)

27. If the selling price of a sofa set is Rs. 9000 with discount rate of 10%, then its marked price is:
    (a) Rs. 8000
    (b) Rs. 12,000
    (c) Rs. 9,500
    (d) Rs. 10,000
    Answer: (d)

28. Grooves are made in the tyres of vehicles to:
    (a) Increase the friction
    (b) Remove the friction
    (c) Equalize friction
    (d) Reduce the friction
    Answer: (a)

29. The source of agar medium used for culturing bacteria in the lab is:
    (a) Brown alga
    (b) Red alga
    (c) Blue green alga
    (d) Green alga
    Answer: (b)

30. The filament of the electric bulb is made of:
    (a) Tungsten
    (b) Copper
    (c) Lead
    (d) Aluminum
    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	**(b)**	2	**(b)**	3	**(a)**	4	**(d)**	5	**(b)**	6	**(c)**	7	**(d)**	8	**(a)**
9	**(b)**	10	**(a)**	11	**(a)**	12	**(d)**	13	**(d)**	15	**(a)**	16	**(a)**	17	**(a)**
20	**(a)**	21	**(d)**	22	**(b)**	23	**(b)**	24	**(b)**	25	**(d)**	26	**(c)**	28	**(d)**
29	**(d)**	30	**(c)**	31	**(c)**	32	**(b)**	33	**(c)**	34	**(b)**	36	**(a)**	37	**(b)**
38	**(c)**	39	**(c)**												

Mental Ability and Mental Aptitude

5	**(c)**	6	**(b)**	7	**(c)**	8	**(d)**	9	**(d)**	10	**(d)**	11	**(d)**	12	**(a)**
13	**(b)**	14	**(d)**	16	**(a)**	17	**(b)**	18	**(a)**	19	**(c)**	20	**(d)**	22	**(c)**
23	**(d)**	25	**(d)**	27	**(a)**	28	**(c)**	29	**(b)**	30	**(d)**				

Science and Simple Arithmetic

10	**(b)**	12	**(d)**	13	**(a)**	15	**(c)**	16	**(a)**	17	**(a)**	19	**(b)**	20	**(d)**
21	**(c)**	22	**(c)**	23	**(a)**	24	**(a)**	25	**(c)**	27	**(d)**	28	**(a)**	29	**(b)**
30	**(a)**														