

MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
1	What is the capital city of Australia?	Brisbane	Canberra	Melbourne	Sydney	Choice 2	The capital city of Australia is Canberra, and it was founded in 1913.
2	Which country recently hosted the 2020 Summer Olympics?	Australia	China	South Korea	Tokyo	Choice 4	Olympic Games 2020 were hwd in Tokyo
3	In which year "WHO" was found?	1947	1948	1960	2000	Choice 2	Founded in 1948, the World Health Organization (WHO) is the United Nations agency dedicated to global health and safety.
4	Who was the first President of United States?	George Washington	Barack Obama	Donald Trump	Joe Biden	Choice 1	On April 30, 1789, George Washington, standing on the balcony of Federal Hall on Wall Street in New York, took his oath of office as the first President of the United States
5	Which country recently legalize recreational marijuana?	Portugal	Canada	Spain	All of the given	Choice 4	In 2013, Uruguay became the first country to legalize the production, sale, and consumption of cannabis for recreational use. In 2018, Canada legalized recreational cannabis use nationwide, allowing adults to possess and consume marijuana within certain limits Personal use and cultivation of cannabis are permitted in private spaces in Spain.
6	Which country became the first country to pass a legal regulation against food waste?	France	Italy	Denmar	Sweden	Choice 1	France became the first country to pass a legal regulation against food waste
7	Which state in India declared the "Ganga" river as the first living entity of the state?	Uttarakhand	West Bengal	Bihar	Uttar Pradesh	Choice 1	The Uttarakhand High Court recognised river Ganga as the first 'living entity' of India, granting it the same legal rights as a human being.
8	In which year Mukhyamantri Chiranjeevi Yojana started?	1990	1995	2023	2021	Choice 4	Mukhyamantri Chiranjeevi Yojana was started on May 1, 2021 to benefit the needy with better healthcare services.
9	Which international organization is responsible for maintaining global peace and security?	UN (United Nations) Security council	UNHCR (United Nations High Commissioner for Refugees)	UNICEF (United Nations Children's Fund)	UNESCO (United Nations Educational, Scientific and Cultural Organization)	Choice 1	The Charter of the United Nations gives the Security Council the primary responsibility for maintaining international peace and security.
10	Which country was the first one to land on the moon?	United States	India	Russia	Soviet Union	Bonus	

MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
11	What was the location of the United Nations Climate Change Conference (COP26) in 2021?	Berlin	Glasgow	Paris	New York	Choice 2	The 26th session of the Conference of the Parties (COP 26) to the UNFCCC was originally scheduled to take place from 9-19 November 2020, in Glasgow, UK. On 28 May 2020, the COP Bureau decided that it would take place from 1-12 November 2021, in Glasgow, UK. The meeting will now open on 31 October 2021.
12	Which Indian state became the first to achieve 100% COVID-19 vaccination for its eligible population?	Himachal Pradesh	Sikkim	Kerala	Goa	Choice 1	Himachal Pradesh has administered the first dose of the Covid-19 vaccine to 53.77 lakh eligible persons above 18 years of age, becoming the first to achieve 100% vaccination target.
13	Who was the first Chhatrapati of the Maratha Empire?	Shahu	Rajaram	Shivaji	Sambhaji	Choice 3	In 1674, Shivaji was crowned Chhatrapati (sovereign) of the new Maratha Kingdom after successfully defending it from Mughal incursions.
14	The Bhakti saint and poet, Sant Tukaram, belonged to which village of Maharashtra?	Dehu	Marathwada	Konkan	Vidarbha	Choice 1	Tukaram was an Indian poet and saint born to Bolhoba More and Kanakar More in a village named Dehu, near Pune in Maharashtra.
15	In which year the Third Battle of Panipat was fought?	1526	1857	1761	1680	Choice 3	The Third Battle of Panipat was fought on 14 January 1761 between the Maratha Empire and the Durrani Empire of Afghanistan.
16	Which city of Maharashtra was named as "Oxford and Cambridge of India"?	Nagpur	Pune	Mumbai	Aurangabad	Choice 2	Pune has long been a major educational and cultural centre; former prime minister Jawaharlal Nehru referred to it as the "Oxford and Cambridge of India."
17	The famous Ellora Caves are located in which district of Maharashtra?	Achalpur	Amravati	Nashik	Aurangabad	Choice 4	Ellora Caves, Ellora also spelled Elura, a series of 34 magnificent rock-cut temples in northwest-central Maharashtra state, western India. They are located near the village of Ellora, 19 miles (30 km) northwest of Aurangabad
18	What was the first event in the Indian National Movement?	Formation of the Indian National Congress	The rebellion of 1857	Non-Cooperation Movement	Quit India Movement	Choice 2	The Revolt of 1857 was the first-ever war for Indian Independence. It started on May 10, 1857, at Meerut. It was the first large-scale rebellion against the East India Company
19	Which famous Indian leader was assassinated in Pune by Nathuram Godse in 1948?	Mahatma Gandhi	Jawaharlal Nehru	Subhas Chandra Bose	Sardar Patel	Choice 1	On the evening of 30 January 1948, Nathuram Vinayak Godse shot Mohandas Karamchand Gandhi dead at point-blank range as India's most venerated leader emerged from a prayer meeting in the capital, Delhi.
20	Who led Dalit Buddhist Movement?	Dr. B.R. Ambedkar	Bhagat Singh	Mahatma Gandhi	Dr. Rajendra Prasad	Choice 1	Dr. Bhimrao Ambedkar converted to Buddhism along with his 3,65,000 followers, initiating the Dalit Buddhist or Neo Buddhist movement in the country
21	Which place in Maharashtra is renowned as "Gandhi National Memorial Society"?	Aga Khan Palace	Ratnagiri	Solapur	Jalna	Choice 1	Aga Khan Palace serves as a memorial to Gandhiji and his philosophies and is one of the top historical places in Pune. It is also known as Gandhi National Memorial
22	Which Marathi saint wrote numerous religious songs called Abhangas?	Sant Dnyaneshwar	Sant Tulsidas	Sant Eknath	Sant Namdev	Choice 3	Sant Eknath wrote numerous religious songs called Abhangas, Owees, and Bharuds. These songs are still very popular in Maharashtra.

MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
23	Which Marathi saint was born in a Vaishya family?	Sant Tukaram	Sant Eknath	Sant Tulsidas	Sant Guru Ramdas	Choice 1	Sant Tukaram was born in a Vaishya family in 1608 AD in a village near Poona.
24	The 'Maulana Azad Trophy' is awarded in which level?	University level	National level	International level	State level	Choice 1	Maulana Abul Kalam Azad Trophy was instituted in 1956- 57 as a running trophy by the Ministry of Education, Govt. of India. This running trophy is awarded by the President of India each year to a University which has all round best performance in sports at Inter-University, National and International competitions.
25	Which mountain range is also called "hottest hotspots"?	Eastern Ghats	Vindhya Range	Aravalli Range	Western Ghats	Choice 4	Western Ghats has an exceptionally high level of biological diversity and endemism and is recognized as one of the world's eight 'hottest hotspots' of biological diversity.
26	Which city is known as the "Manchester of India"?	Mumbai	Pune	Nashik	Ahmedabad	Choice 4	In Gujarat State, the town of Ahmedabad is mainly known as the Manchester City of India. Ahmedabad is located in Gujarat on the banks of the Sabarmati river.
27	Which Indian state is known as the "Rice Bowl of India"?	Maharashtra	Andhra Pradesh	Punjab	West Bengal	Choice 2	Krishna- Godavari is known as the region of rice bowl in India as it produces the highest quantity of rice all over the country. The main delta of the Krishna- Godavari rivers lies in the state of Andhra Pradesh where the production is optimum and hence the state is known as the Rice Bowl state in India.
28	Which is the largest river island in the world, located in Assam, India?	Kangaroo Island	Pulau Ubin	Majuli	Delft Island	Choice 3	Majuli is the biggest river island in the world which is located on the Brahmaputra River in the state of Assam.
29	Which country is known as the "Land of the Rising Sun"?	China	Vietnam	South Korea	Japan	Choice 4	Japan is often called "the land of the rising sun". In Japanese, the country is called Nihon (Nippon). Both Nihon and Japan originate from the same words; they literally mean "where the sun rises".
30	Which ocean is the third largest ocean?	Southern Ocean	Atlantic Ocean	Indian Ocean	Pacific Ocean	Choice 3	The Indian Ocean is the third largest of the world's five oceans (after the Pacific Ocean and Atlantic Ocean, but larger than the Southern Ocean and Arctic Ocean).
31	Which desert in India is known for its distinctive red sand dunes?	Kalahari Desert	Thar Desert	Rann of Kutch	Gobi Desert	Bonus	
32	Which state is not a part of the "Seven Sisters" of north east?	Sikkim	Meghalaya	Arunachal Pradesh	Assam	Choice 1	The states of Arunachal Pradesh, Assam, Meghalaya, Manipur, Mizoram, Nagaland and Tripura were named the Seven Sisters in 1972.
33	The largest freshwater lake in India, Vembanad, is located in which state?	Andhra Pradesh	Karnataka	Kerala	Tamil Nadu	Choice 3	Vembanad Lake is locally known as Vembanad Kayal, and it is the largest freshwater lake in the state of Kerala. The lake is spread across an area of 2,033 sq km, across Alappuzha, Kottayam and Ernakulam districts.

MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
34	Which is the largest producer of tea in India?	Kerala	Assam	West Bengal	Tamil Nadu	Choice 2	Assam is the largest tea-producing state in India. Jorhat in Assam is famous for tea. It is popularly known as the tea capital of the world. It is the main centre of tea cultivation
35	The famous Sun Temple is located in which state?	Konark	Karnataka	Gujarat	Bihar	Choice 1	Sun Temple, also called Surya Deula or Surya Deul, temple in Konark, Odisha state, India, that is dedicated to the Hindu sun god Surya. It was built in the 13th century.
36	The Brahmaputra River is known as the Yarlung Tsangpo in which country?	Bangladesh	China	Bhutan	Nepal	Choice 2	Throughout Bhramaputras upper course the river is generally known as the Tsangpo ("Purifier"); it is also known by its Chinese name (Yarlung Zangbo) and by other local Tibetan names.
37	Who is the Speaker of the Lok Sabha as of 2023?	Om Birla	Sumitra Mahajan	Meira Kumar	Rajnath Singh	Choice 1	OM Birla has been unanimously elected Speaker of the 17th Lok Sabha.
38	What is the term of office for the President of India?	5 years	7 years	6 years	4 years	Choice 1	<div data-bbox="1310 708 1556 971" style="border: 1px solid black; padding: 10px; background-color: #e0f2f1;"> <p align="center">ARTICLE</p> <p align="center">56</p> <p align="center">Term of office of President</p> <hr/> <p>(1) The President shall hold office for a term of five years from the date on which he enters upon his office:</p> </div>

MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
39	Who appoints the Attorney General of India?	The President	The Lok Sabha Speaker	The Chief Justice of India	The Prime Minister	Choice 1	<div style="border: 1px solid black; padding: 10px; background-color: #e0f2f1;"> <p align="center">ARTICLE 76</p> <p align="center">Attorney-General for India</p> <hr/> <p>(1) The President shall appoint a person who is qualified to be appointed a Judge of the Supreme Court to be Attorney-General for India.</p> </div>
40	What is the upper house of the Indian Parliament called?	Vidhan Parishad	Rajya Sabha	Lok Sabha	Vidhan Sabha	Choice 2	Council of States i.e. Rajya Sabha is the Upper House of the Indian Parliament. Rajya Sabha
41	Who is the current President of India as of 2023?	Smt. Droupadi Murmu	Pranab Mukherjee	Venkaiah Naidu	Narendra Modi	Choice 1	Smt. Droupadi Murmu was sworn in as the 15th President of India on 25 July, 2022.
42	Who is the head of a Municipal Corporation in India?	Mayor	Governor	Commissioner	Chief Minister	Choice 1	In India, the Mayor is the ceremonial head of the Municipal Corporation as they are chosen through indirect election by the Councillors from among themselves for a term of one year.
43	What is the maximum strength of Lok Sabha?	552	550	450	595	Choice 1	According to the constitution, the maximum strength of the house is 552 members- out of this, 530 members represent states, 20 members represent union territories and 2 members of Anglo-Indian are nominated by the President
44	Which Schedule of the Indian Constitution deals with the allocation of seats in the council of states?	Sixth Schedule	Fifth Schedule	Fourth Schedule	Third Schedule	Choice 3	The fourth Schedule of the Indian Constitution contains provisions as to the allocation of seats in the Council of States
45	Who is the leader of the opposition in the Lok Sabha as of 2023?	Sushma Swaraj	Mallikarjun Kharge	Rahul Gandhi	Arun Jaitley	Choice 2	On March 13, 2023, the Hon'ble Leader of Opposition Shri Mallikarjun Kharge, responding to the assertions of the Leader of the House Shri Piyush Goyal, who demanded apology for "the shameless way by which a senior leader of the opposition in a foreign country has attacked the democracy of India, insulted the Parliament of India"

MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation						
46	Which article of the Indian Constitution provides for the abolition of untouchability	Article 17	Article 23	Article 21	Article 19	Choice 1	Abolition of untouchability (Article 17) was included under Fundamental Rights which are mentioned in Part-III of Indian constitution.						
47	What is the maximum strength of Rajya Sabha?	200	250	300	350	Choice 2	<table border="1"> <thead> <tr> <th colspan="2">Composition of Rajya Sabha</th> </tr> </thead> <tbody> <tr> <td>Maximum Strength – 250</td> <td>238 represent States & Union Territories 12 are nominated by the president</td> </tr> <tr> <td>Current Strength – 239 (6 Vacancies) Total – 245</td> <td>225 members represent the states 8 members represent the union territories 12 members are nominated by the president</td> </tr> </tbody> </table>	Composition of Rajya Sabha		Maximum Strength – 250	238 represent States & Union Territories 12 are nominated by the president	Current Strength – 239 (6 Vacancies) Total – 245	225 members represent the states 8 members represent the union territories 12 members are nominated by the president
Composition of Rajya Sabha													
Maximum Strength – 250	238 represent States & Union Territories 12 are nominated by the president												
Current Strength – 239 (6 Vacancies) Total – 245	225 members represent the states 8 members represent the union territories 12 members are nominated by the president												
48	Who was the first woman Chief Minister of India?	Sucheta Kripalani	Vasundhara Raje	Indira Gandhi	Vimal Mundada	Choice 1	Sucheta Kripalani was the first Woman Chief Minister of India. She was elected the fourth chief minister of Uttar Pradesh from the Kanpur constituency and served a term of four years from 1963-1967.						
49	The Indian government's Mudra Yojana is intended to:	Initiate reforms in the currency management	Provide loans to poor farmers	Supplement the Jan Dhan Yojana	Provide easy financial assistance to set up small business	Choice 4	MUDRA Yojana is aimed at supporting all kind of income generating activities under manufacturing, processing, trading and service sector. Assistance can be availed under Micro Credit Scheme through any of the Micro finance institutions/Non-Banking Financial Companies/ Banks operating in the area						
50	Human Development Report is published by of the following organisations?	United Nations Development Programme (UNDP)	World Bank	UNESCO	IMF	Choice 1	United Nations Development Program (UNDP) publishes the Human Development Report.						
51	Maharashtra Economic Development Council was established in the year:	1965	1999	1944	1957	Choice 4	The Maharashtra Economic Development Council (MEDC) was established in 1957 under the stewardship of Dr. Dhananjayrao Gadgil						

MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
52	Dr. Abhay Bang and Dr. Rani Bang are social activists from Maharashtra who have worked for:	Promoting renewable energy	Increasing trees in Maharashtra	Provide healthcare to the tribal community	Promoting women empowerment	Choice 3	Abhay and Rani Bang have been working with the tribal communities in the forest area of Gadchiroli district in Maharashtra since 1986.
53	Jayakwadi Dam of Maharashtra is located on which of the following river?	Krishna	Kaveri	Tapi	Godavari	Choice 4	Jayakwadi is a dam on the Godavari river in Paithan tehsil of Aurangabad district in Maharashtra, India.
54	Which of the following is not a cause of poverty in Maharashtra?	Income inequality	Lack of employment opportunities	Agriculture distress	Good infrastructure	Choice 4	Causes Of Poverty In Maharashtra- Income inequality, Lack of Employment opportunities, Agriculture distress, Poor infrastructure, Low literacy rates etc.
55	Jawahar Rozgar Yojana was launched in the year:	1999	1992	1989	1975	Choice 3	The JRY was launched as a Centrally Sponsored Schemes (CSS) on 1st April 1989 by merging the National Rural Employment Programme (NREP) and the Rural Landless Employment Guarantee Programme (RLEGP)
56	Satyashodhak Samaj was founded in which of the following city?	Mumbai	Pune	Nagpur	Varanasi	Choice 2	Jyotiba Phule founded Satyashodhak Samaj in Pune, Maharashtra, on 24th September 1873. It was a reformational society that promoted education, increased social rights, justice and political access in the deprived sections.
57	Which city of Maharashtra is the highest contributor to its GDP?	Nagpur	Pune	Mumbai	Nasik	Choice 3	Mumbai, the financial capital of India, is home to the Bombay Stock Exchange (BSE) and the National Stock Exchange (NSE).
58	Which of the following is not a factor of production?	Land	labour	Enterpreneurs hip	GDP growth	Choice 4	Factors of production are resources that are the building blocks of the economy; they are what people use to produce goods and services. Economists divide the factors of production into four categories: land, labor, capital, and entrepreneurship.
59	Who presented the budget of Maharashtra for the fiscal year 2022-23?	Ajit Pawar	Eknath Shinde	Uddhav Thackeray	Shawd Pawar	Choice 1	The Deputy Chief Minister of Maharashtra, Mr. Ajit Pawar, presented the Budget for the state for the financial year 2022-23 on March 11, 2022.
60	Revenue Deficit of Maharashtra in the year 2022-23 is:	0.68% of the GSDP	5.8% of the GSDP	2.68% of the GSDP	3.8% of the GSDP	Choice 1	Revenue deficit in 2022-23 is estimated to be Rs 24,353 crore, which is 0.68% of the GSDP.
61	Which of the following vertebrae is located in the neck?	Sacral	Cervical	Lumbar	Cranial	Choice 2	Despite displaying most typical vertebral hallmarks, a significant amount of anatomical variation exists within the cervical spine. The main role of the cervical spine is to support and promote the movement of the head and neck
62	Which of the following body parts stores Vitamin A, Vitamin D, Vitamin K and Vitamin B12?	Liver	Kidney	Brain	Pancreas	Choice 1	In human beings, the storage of vitamin A, D, E, K and vitamin B12 is the function of the liver. Liver is the largest gland of the human body.
63	Which equipment is used to measure light intensity?	Load cell	Barkometer	Photometer	Inkometer	Choice 3	A photometer is an instrument that measures light intensity. It can be defined as an instrument that measures visible light

MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation																		
64	The force that holds neutrons and protons together in a nucleus is known as:	Strong Nuclear Force	Electromagnetic Force	Frictional Forces	Weak Nuclear Force	Choice 1	The strong force holds together quarks, the fundamental particles that make up the protons and neutrons of the atomic nucleus, and further holds together protons and neutrons to form atomic nuclei																		
65	Which of the following state of matter has the least amount of intermolecular force?	Solid	Liquid	Gaseous	It is same in solid, liquid and gaseous state	Choice 3	The state of matter with the least intermolecular forces of attraction is the gaseous state.																		
66	What is Barium's atomic number?	58	63	56	60	Choice 3	<p align="center">Properties of Barium Element</p> <table border="1"> <tbody> <tr> <td>Atomic Number (Z)</td> <td>56</td> </tr> <tr> <td>Atomic Symbol</td> <td>Ba</td> </tr> <tr> <td>Group</td> <td>2</td> </tr> <tr> <td>Period</td> <td>6</td> </tr> <tr> <td>Atomic Weight</td> <td>137.327 u</td> </tr> <tr> <td>Density</td> <td>3.594 g/cm³</td> </tr> <tr> <td>Melting Point (K)</td> <td>1000 K</td> </tr> <tr> <td>Melting Point (°C)</td> <td>725 °C</td> </tr> <tr> <td>Boiling Point (K)</td> <td>2170 K</td> </tr> </tbody> </table>	Atomic Number (Z)	56	Atomic Symbol	Ba	Group	2	Period	6	Atomic Weight	137.327 u	Density	3.594 g/cm ³	Melting Point (K)	1000 K	Melting Point (°C)	725 °C	Boiling Point (K)	2170 K
Atomic Number (Z)	56																								
Atomic Symbol	Ba																								
Group	2																								
Period	6																								
Atomic Weight	137.327 u																								
Density	3.594 g/cm ³																								
Melting Point (K)	1000 K																								
Melting Point (°C)	725 °C																								
Boiling Point (K)	2170 K																								
67	Sanitation refers to:	Disposal of human excreta	Supply of quality food	Reducing greenhouse gases	Disposal of waste	Choice 1	Sanitation refers to public health conditions related to clean drinking water and adequate treatment and disposal of human excreta and sewage.																		
68	Which gland is present above our kidneys?	Pituitary gland	Adrenal gland	Thyroid gland	Sebaceous gland	Choice 2	Adrenal glands, also known as suprarenal glands, are small, triangular-shaped glands located on top of both kidneys.																		
69	Heptane contains how many carbon atoms?	9	7	6	5	Choice 2	Molecular Formula of Heptane is - C ₇ H ₁₆																		
70	The study of fishes is known as	Genetics	Histology	Parasitology	Ichthyology	Choice 4	Ichthyology is the study of fish species, particularly those pertaining to the Chondrichthyes (cartilaginous fish), Osteichthyes (vertebrates), and Agnatha families (jawless fish).																		
71	Which of the following is not an enzyme?	Ptyalin	Rennin	Gastrin	Pepsin	Choice 3	Gastrin is a peptide hormone primarily responsible for enhancing gastric mucosal growth, gastric motility, and secretion of hydrochloric acid (HCl) into the stomach.																		

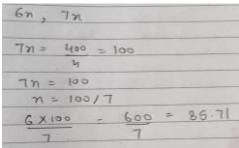
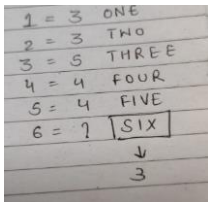
MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
72	Which disease is caused by dog bite?	Colorblindness	Madness	Scurvy	Rabies	Choice 4	Rabies is a vaccine-preventable, zoonotic, viral disease affecting the central nervous system. Once clinical symptoms appear, rabies is virtually 100% fatal. In up to 99% of cases, domestic dogs are responsible for rabies virus transmission to humans.
73	What is the functional unit of the kidney called?	Nephron	Neuron	Glomerulus	Ureter	Choice 1	The functional unit of the kidney is called the nephron. It comprises of a coiled renal tubule and a vascular network of peritubular capillaries
74	Find the value of $4 + 64 \times (30 \div 5)$.	388	358	368	289	Choice 1	$4 + (64 * (30 / 5)) =$ 388
75	The cost of two apple is Rs. 24. Find the cost of 15 such apples.	180	90	360	240	Choice 1	Cost of 2 Apple=24 Cost of 1 apple= 12 Cost of 15 apples= 15*12 $15 * 12 =$ 180
76	A shoe factory manufactured 70,000 shoes in 80 days. How many shoes did it manufacture per day?	876	875	874	877	Choice 2	Shoes in one day=70000/80 $70\ 000 / 80 =$ 875

MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
77	Find the next term of the arithmetic sequence 177, 173, 169, 165,...	161	163	165	162	Choice 1	<p>177, 173, 169, 165,...</p> <p>Here, $173 - 177 = -4$</p> <p>$169 - 173 = -4$</p> <p>$165 - 169 = -4$</p> <p>So, the next term = $165 - 4 = 161$</p>
78	The sum of the ages of 3 people A, B and C is 90 years. What would be the total of their ages 4 years back?	74	78	86	80	Choice 2	<p>Required sum = $(90 - 3 \times 4)$ years = $(90 - 12)$ years = 78 years.</p>
79	A man complete a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.	220	224	230	234	Choice 2	$\frac{(1/2)x}{21} + \frac{(1/2)x}{24} = 10$ $\Rightarrow \frac{x}{21} + \frac{x}{24} = 20$ $\Rightarrow 15x = 168 \times 20$ $\Rightarrow x = \left(\frac{168 \times 20}{15} \right) = 224 \text{ km.}$

MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
80	The ratio between the speeds of two trains is 6: 7. If the second train runs 400 kms in 4 hours, then the speed of the first train is:	88.24	82.71	85.71	84.82	Choice 3	<p>Reference:</p> <p>Explanation: Let the speed of two trains be 7x and 8x km/hr. Then, $8x = 400/4 = 100$ $x = 100/8 = 12.5$ Speed of first train = (7×12.5) km/hr = 87.5 km/hr.</p> <p>Solution:</p> 
81	Simplify the numerical expression: $[300 \div (-6)] \div [(-30) \div 6]$	12	18	20	10	Choice 4	$(300 / (-6)) / ((-30) / 6) =$ <div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;"> <p style="margin: 0;">10</p> </div>
82	Find the missing number in the following: $7 - 32 \div 8 \times m + 5 = 16$	2	3	4	6	Bonus	
83	If 1=3 2=3 3=5 4=4 5=4 Then, 6=?	3	2		4	Choice 1	

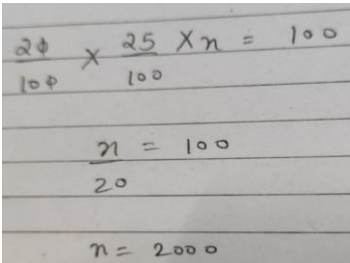
MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
84	Which expression is equivalent to $(16x^2 - 25y^2)$?	$(4x - 5y)(4x - 5y)$	$(4x + 5y)(4x + 5y)$	$(4x + 5y)(4x - 5y)$	$(4x - 5y)^2$	Choice 3	<p> $16x^2 - 25y^2$ $(4x)^2 - (5y)^2$ $a^2 - b^2 = (a+b)(a-b)$ $a = 4x; b = 5y$ $16x^2 - 25y^2 = (4x+5y)(4x-5y)$ </p>
85	Solve the quadratic: $5x^2 - 10x = 0$	(2,0)	(-2,0)	(2,2)	(2,-2)	Choice 1	<p> Simplify $5x^2 - 10x = 0$ Common factor Divide both sides by the same factor $x^2 - 2x = 0$ Use the quadratic formula Simplify Separate the equations Solve Solution $x = 2$ $x = 0$ </p>
86	What is the positive roots of $3x^2 + 6 = 9x$?	3	5	0	8	Choice 2	<p> $3x^2 + 6 = 9x$ Quadratic formula Factor Simplify $3x^2 + 6 = 9x$ Simplify the expression Divide both sides by the same factor $x^2 - 3x + 2 = 0$ Use the quadratic formula Simplify Solution $x = 5$ $x = -3$ </p>
87	If the sum of three consecutive even numbers is 72, what is the smallest number?	22	24	26	20	Bonus	
88	Who is the top buyer of GeM portal in 2022-23?	Uttar Pradesh	Madhya Pradesh	Gujrat	Jammu and kashmir	Choice 1	Uttar Pradesh emerged as the largest buyer of goods and services among all states and Union Territories from government portal GeM in 2022-23, according to the central government data
89	Who is the present Chairman of State Bank of India?	Arundhati Bhattacharya	Dinesh Kumar Khara	Pratip Chaudhuri	Chanda Kochar	Choice 2	India has extended Dinesh Khara's tenure as the chairman at State Bank of India, the country's biggest bank, till August 2024.

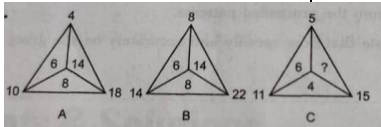
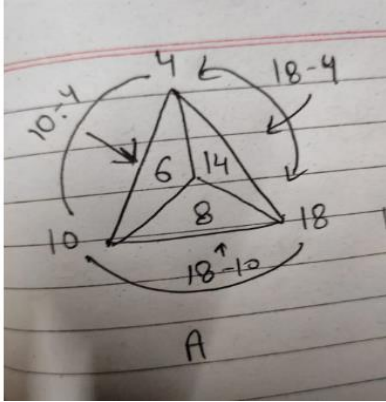
MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
90	Which of the following production is related to the Black Revolution?	Mustard Production	Crude oil production	Coal production	Fish production	Choice 2	The Indian government intended to increase petroleum output by blending ethanol with gasoline to create biodiesel. This resulted in a significant increase in petroleum output in India, dubbed the "Black Revolution."
91	Which of the following nations is not a SAARC member?	Afghanistan	Bhutan	Maldives	Myanmar	Choice 4	Myanmar is not a member of the South Asian Association for Regional Cooperation. SAARC member states include Afghanistan, Bangladesh, Bhutan, India, Nepal, the Maldives, Pakistan and Sri Lanka.
92	What is the unit digit in the expansion of $(222)^2$?	2	4	6	8	Choice 2	$222 \times 222 = 49284$ Unit digit of 49284 is 4. Unit digit of the square of 222 = 4

MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
93	20% of 25% of a number is 100. What is the number?	500	2000	1500	1000	Choice 2	
94	A sum doubles in 20 years at simple interest how much is the rate?	20	4	5	10	Choice 3	<p>5% per year</p> <p>$R = \frac{(P)(T)}{P} = \frac{1 \times 120}{1 \times 120} = 0.05$ per year or 5% per year interest.</p>
95	Pointing out to a lady, a girl said, "She is the only daughter-in-law of the grandmother of my father's only son" How is the lady related to the girl?	Mother	Cousin	Sister-in-law	Aunt	Choice 1	<p>Girl's Father's only son - Girl's brother; Grandmother of Girl's brother - Girl's Grandmother; Daughter-in-law of girl's grandmother - Girl's mother.</p>

MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
96	How many times at the hands of a clock is at right angle in a day?	22	44	24	28	Choice 2	Thus, the two hands form a right angle after every $360/11$ minutes. Total number of minutes in a day = $24 \times 60 = 1440$ minutes. Hence, the two hands will form right angle "44 times" in a day. <small>28-Mar-2023</small>
97	Identify the missing number 	6	8	10	14	Choice 3	
98	Arrange the given words in the sequence in which they occur in the dictionary 1-Librate 2-Modesty 3-Mixture 4-Feature 5-Licence	4,5,2,3,1	2,4,1,5,3	1,2,5,3,4	4,1,5,3,2	Choice 4	Explanation: Alphabetical order is 4. Feature 1. Librate 5. Licence 3. Mixture 2. Modesty

MPSC 2023 GROUP B SET-2

Question 1.	Question	Choice 1	Choice 2	Choice 3	Choice 4	Correct choice	Explanation
99	Find the error: The principal distributed (A)/ the sweets among our friends (B)/ who bade (C)/ him farewell (D)	A	B	C	D	Choice 2	<p>1. The principal distributed (A)/ the sweets among our friends (B)/ who bade (C)/ him farewell (D)/ No error (E).</p> <p>A. A B. B C. C D. D E. E</p> <p>Correct Option: B</p> <p>Say, 'amongst'.</p>
100	8% of 800* ? = 224	4.5	3.5	4	3	Choice 2	<p>Step 1: Convert 8% to decimal form by dividing it by 100. 8% = 8/100 = 0.08</p> <p>Step 2: Substitute the values into the equation. 0.08 * 800 * x = 224</p> <p>Step 3: Simplify the equation. 64x = 224</p> <p>Step 4: Solve for 'x' by dividing both sides of the equation by 64. x = 224/64 x = 3.5</p>