



सत्यमेव जयते



GOVERNMENT OF MAHARASHTRA
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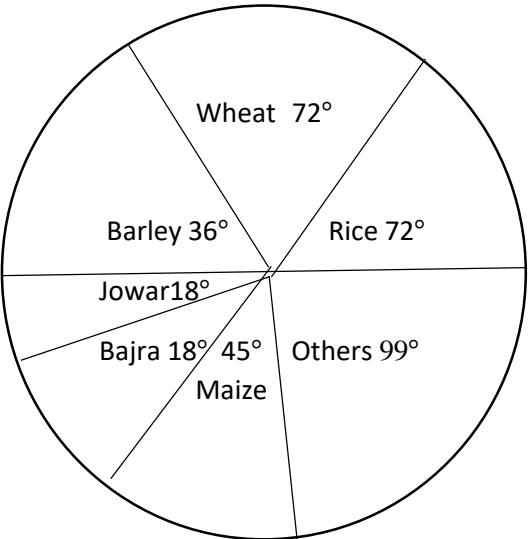
MHCM & ER Entrance Exam
(Sample Question Paper)

Q. No	Questions	Option A	Option B	Option C	Option D
1	Three numbers are in the ration 1:2:3 and their H.C.F. is 12. The numbers are :	12,24,36	10,20,30	5,10,15	4,5,12
2	The H.C.F. and L.C.M. of two numbers are 84 and 21 respectively. If the ratio of the two numbers is 1:4, then the larger of the two number is:	12	48	84	108
3	In a garden, there are 10 rows and 12 columns of mango trees. The distance between two trees is meters and a distance of one meter is left from all sides of the boundary of the garden. The length of the garden is..	20m	22m	24m	26m
4	In a family, the father took $\frac{1}{4}$ of the cake and he had 3 times as such as others had. The total number of family member is	3	7	10	12
5	$852.2109+106.78-59.157 =?$	899.8339	889.8339	8999.9833	804.5879
6	$4.8438 \div 0.069 =?$	60.2	70.2	69.2	71.2
7	In 10 years, A will be twice as old as B was 10 years ago. If A is now 9 years older than B, Then present age of B is:	19 years	29 years	39 years	49 years
8	The average age of 12students is 20 years. If the age of one more student is included, the average decreases by 1. What is the age of the new student?	5 years	7 years	9 years	11 years
9	$860\% \text{ of } 50\% + 50\% \text{ of } 860 =?$	430	516	860	960
10	A housewife saved Rs. 2.50 in buying an item on sale. If she spent Rs. 25 for the item approximately how much percent she saved in the transaction?	8%	9%	10%	11%
11	If 120 is 20% of a number, then 120 % of that number will be	20	120	360	720
12	If the cost price of 12 tables is equal to the selling price of 16 tables, the loss percent is :	15%	20%	25%	30%
13	A shopkeeper sold an article for Rs. 2564.36. Approximately, what was his profit percent if the cost price of the article was Rs. 2400?	7	8	12	60

14	A certain amount was divided between Salim and Rahim in the ratio of 4:3. If Rahim's share was Rs. 2400, the total amount was :	Rs. 5600	Rs. 3200	Rs. 9600	Rs. 16,800
15	The salaries of A, B and C are in the ratio of 1:2:3. The salary of B and C together is Rs. 6000. By what percent is the salary of C more than that of A?	100%	200%	300%	600%
16	A and B started a business jointly. A's investment was thrice the investment of B and the period of his investment was two times the period of investment of B. If B received Rs. 4000 as profit, then their total profit is :	Rs. 16,000	Rs. 24,000	Rs. 20,000	Rs. 28,000
17	Jayant opened a shop investing Rs. 30,000. Madhu joined him 2 months later, investing Rs. 45,000. They earned a profit of Rs. 54,000 after completion of one year. What will be Madhu's share of Profit?	Rs. 27,000	Rs. 24,000	Rs. 30,000	Rs. 36,000
18	The average of first five multiples of 3 is :	3	9	12	15
19	In seven given numbers, the average of first four numbers is 4 and that of the last four numbers is also 4. If the average of these seven numbers is 3, the fourth number is:	3	4	7	11
20	The average of Kanchan's marks in 7 subjects is 75. His average in six subjects excluding Science is 72. How many marks did he get in Science?	72	90	93	None of these
21	A can do a certain job in 12 days. B is 60% more efficient than A. The number of days, it takes B to do the same piece of work is :	6	$6\frac{1}{4}$	$7\frac{1}{2}$	8
22	A does half as much as B and C does half as much work as A and B together. If C alone can finish the work in 40 days, then together all will finish the work in	$13\frac{1}{3}$ days	15 days	20 days	30 days
23	12 children takes 16 days to complete a work which can be completed by 8 adults in 12 days. 16 adults started working and after 3 days, 10 adults left and 4 children joined them. How many days will it take them to complete the remaining work?	6	8	4	3
24	A train starts from station X at the rate of 60 kmph and reaches station Y in 45 minutes. If the speed is reduced by 6 kmph, how much more time will the train take to return from station Y to station X?	5 min	$7\frac{1}{2}$	6 min	4 min
25	If a man running at 15 kmph crosses a bridge in 5 minutes, then the length of the bridge is :	1333.33	1000m	7500m	1250m
26	Two Trains travel in opposite directions at 36 kmph and 45 kmph and a man sitting in slower train passes the faster train in 8 seconds. The length of the faster train is :	80m	100m	120m	180m
27	A Train 240 m long passed a pole in 24 seconds. How long will it take to pass a platform 650 m long?	65 sec	89 sec	100 sec	150 sec
28	A sum of money at simple interest amounts to Rs. 2240 in 2 years and to Rs. 2600 in 5 years. What is the principal amount?	Rs. 1520	Rs. 1880	Rs. 2120	None of these
29	Ashok took a loan of Rs. 15,000 for 3 years at simple interest. If the total interest paid is Rs. 2700, what is the rate of interest per annum?	5.4%	6%	9%	18%
30	The amount of Rs.7500 at compound interest at 4% per annum for 2 years, is :	Rs. 7800	Rs. 8100	Rs.8112	Rs.8082

31	The difference in compound interest and simple interest on a certain amount at 10% per annum at the end of the third year is Rs. 620. What is the principal amount?	Rs. 40,000	Rs. 1,20,000	Rs. 10,000	Rs. 20,000
32	The area of a right angled triangle is 30 sq. cm and the length of its hypotenuse is 13 cm. The length of the shorter side is:	4 cm	5 cm	6 cm	7 cm
33	If the altitude of an equilateral triangle is $\sqrt{6}$, then its area is :	$\sqrt[3]{3}$	$\sqrt[2]{3}$	$\sqrt[2]{2}$	$\sqrt[6]{2}$
34	The average score of the class of 40 students is 52. What will be the average score of the rest of the students if the average score of 10 of the students is 61.	50	47	48	49
35	If 5 kg of salt costing Rs. 5/kg and 3 kg of salt costing Rs. 4/kg are mixed, find the average cost of the mixture per kilogram.	Rs.4.5	Rs. 4.625	Rs. 4.75	Rs. 4.125
36	Complete the Series GPQZA, HORYB, INSXC, JMTWD?	KLUEV	KLTVE	KLUVE	KLUPV
37	6VX: 42 RT :: 8OU: ?	64 KP	64 KQ	72 KQ	81 KP
38	Find Odd one among the following	35	48	75	84
39	Find Odd one among the following	358	246	134	862
40	Pointing to a lady on the platform, Manju said, “she is the sister of the father of my mother’s son.” Who is the lady to Manju	Mother	Sister	Aunt	Niece
41	Introducing a man to her husband, a woman said, “His brother’s father is the only son of my grandfather.” How is the woman related to this man?	Mother	Aunt	Sister	Daughter
	Direction (Questions 42 to 45) Study the information carefully and answer the given questions: i) B and E are good in Dramatics and Computer Science. ii) A and B are good in Computer Science and Physics iii) A, D and C are good in Physics and History. iv) C and A are good in Physics and Mathematics v) D & E are good in History and Dramatics				
42	Who is good in Physics, History and Dramatics?	A	B	D	E
43	Who is good in Physics, History and Mathematics, but not in Computer Science?	A	B	C	D
44	Who is good in Computer Science, History and Dramatics?	A	B	C	E
45	Who is good in History, Physics, Computer Science and Mathematics?	A	B	C	D
46	A man walks 1 km towards East and then he turns to South and walks 5 km. Again he turns to East and walks 2 km, after this he turns to North and walks 9 km. Now, how far is he from his starting point?	3 km	4 km	5 km	7 km
47	Raj travelled from a point X straight to Y at a distance of 80 meters. He turned right and walked 50 meters, then again turned right and walked 70 meters. Finally he turned right and walked 50 meters. How far is he from the starting point?	10 meters	20 meters	50 meters	70 meters

48	I am facing east. I turn 100° in the clockwise direction and then 145° in the anti-clockwise direction. Which direction am I facing now?	East	North-east	North	South-west
49	If the letters in PRABA are coded as 27595 and THILAK are coded as 368451, how can BHARATI be coded?	9567568	9675538	9657538	9567538
50	At the end of a business conference the ten people present all shake hands with each other once. How many handshakes will there be altogether?	20	45	55	90
	Directions (Q.51 to 53) : In each question below is given a statement followed by two assumptions numbered I and II. Consider the statement and decide which of the given assumption is implicit.				
51	Statement: It is faster to travel by air to Delhi from Bengaluru. Assumptions: I. Bengaluru and Delhi are connected by Air. II. There are no other means of transport available to Delhi from Bengaluru.	If only assumption I is implicit	If only assumption II is implicit	If either I or II is implicit	If neither I nor II is implicit
52	Statement: “Computer education should start at schools itself” Assumptions: I. Learning computers is easy. II. Computer education fetches jobs easily.	If only assumption I is implicit	If only assumption II is implicit	If either I or II is implicit	If neither I nor II is implicit
53	Statement : The management of XYZ Pvt. Ltd. asked the workers’ union to call off strike Immediately otherwise the management would be forced to close down the factory. Assumptions: I. No alternative other than closing down the factory is left for the management of XYZ Pvt. Ltd. II. Such threat may have some effect on the workers’ union.	If only assumption I is implicit	If only assumption II is implicit	If either I or II is implicit	If neither I nor II is implicit
	Directions (54-55) In each of the following questions, two statements numbered I and II are given. There may be cause and effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes. These statements may be independent causes without having any relationship. Read both the statements in each question and mark your answer accordingly.				
54	I. Majority of the citizens in the locality belong to higher income group. II. The sale in the local super market are comparative much higher than in other localities.	If statement I is the cause and statement II is its effect;	If statement II is the cause and statement I is its effect;	If both the statement I and II are independent causes;	If both the statements I and II are effects of independent causes;
55	I. The literacy rate in the district has been increasing for the last four years. II. The district administration has conducted extensive training programme for the workers involved in the literacy drive.	If statement I is the cause and statement II is its effect;	If statement II is the cause and statement I is its effect;	If both the statement I and II are independent causes;	If both the statements I and II are effects of independent causes;

56	The total age of A and B is 12 years more than the total age of B and C. C is how many years younger than A?	12	24	C is elder than A	Date inadequate
57	The age of the man is three times the sum of the ages of his two sons. Five years hence, his age will be double of the sum of the ages of his sons. The father's present age is :	40 years	45 years	50 years	55 years
58	A takes twice as much time as B or thrice as much time to finish a piece of work. Working together, they can finish the work in 2 days. B can do the work alone in :	4 days	6 days	8 days	12 days
59	A and B can do a work in 8 days, B and C can do the same work in 12 days, A, B and C together can finish it in 6 days. A and C together will do it in :	4 days	6 days	8 days	12 days
60	If 8 th February 1995 was a Wednesday, then 8 th February 1994 was on which day?	Wednesday	Thursday	Tuesday	Monday
61	If 1 st January 2012 is a Sunday, then which day of the week will the new year be celebrated in 2016?	Friday	Sunday	Wednesday	Saturday
62	If 23 rd April 2006 is a Sunday, then 23 rd April 2106 will be a	Wednesday	Thursday	Friday	Saturday
63	A Clock is started at noon. By 10 minutes past 5, the hour hand has turned through:	145°	150°	155°	160°
64	The angle between the minute hand and the hour hand of a clock when the time is 8.30 is :	80°	75°	60°	105°
65	The angle between the minute hand and the hour hand of a clock when the time is 4.20, is :	0°	10°	5°	20°
<p>Direction (Q.31 to 35): The pie-chart provided below gives the distribution of land (in a village) under various food crops. Study the pie-chart carefully and answer the questions that follow.</p> <p>DISTRIBUTION OF AREAS (IN ACRES) UNDER VARIOUS FOOD CROPS</p> 					

66	Which combination of three crops contribute to 50% of the total area under the food crops?	Wheat, Barley and Jowar	Rice, Wheat and Jowar	Rice, Wheat and Barley	Bajra, Maize and Rice
67	If the total area under jowar was 1.5 million acres, then what was the area (in Million acres) under rice?	6	7.5	9	4.5
68	If the production of wheat is 6 times that of barley, then what is the ratio between the yield per acre Wheat and barley?	3:2	3:1	12:1	2:3
69	if the yield per acre of rice was 50 % more than that of barley, then the production of barley is what percent of that of rice?	30%	$33\frac{1}{3}\%$	35%	36%
70	If the total area goes up by 5%, and the area under wheat production goes up by 12% then what will be the angle for wheat in the new pie-chart?	62.4°	76.8°	80.6°	84.6°
	Direction (Q.71 to Q.74) complete the following sentence by filling appropriate articles				
71	There is-----fish in -----bottle	the,the	a,the	a,a	None
72	David picked up-----nut from -----hole	the,the	a,an	a,the	the,a
73	All-----books on-----top of the shelf belong to the me.	No article,a	the,no article	the,the	No article,the
74	-----girl from -----farm came once-----week to help clean-----house	a,a,the,the	the,a,the,the	the,the,a,the	the,a,a,a
75	Identify the Synonym of the given word IMPEDE	Hinder	Reverse	Impose	Expedite
76	Identify the Synonym of the given word HERETICAL	Fiery	Corrupt	Impious	Expedite
77	Select the most appropriate Antonym to the given word “PRECIOUS”	Costly	Rare	Simple	Cheap
78	Select the most appropriate Antonym to the given word “DETRIMENTAL”	Baseless	Harmless	Senseless	Meaningless
79	Select the appropriate options to complete the sentence: Ten Candidates -----for the interview	Turned up	Turned down	Turned over	Turned out
80	The following sentences has been split into four segments. Identify the segment that contains a grammatical error. (A) Had you (B) lost our lives (C) not reached in time (D) we will have	Had you	Lost our lives	Not reached in time	We will have
81	In the following sentence, find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select ‘No error’ I was shocked (A)/to see how my grandmother had aged(B)/since the last time we visited her (C)/ No error (D)	B	C	D	A
82	The following sentence has been split into four segments. Identify the segment that contains a grammatical error. Rahul sings/very sweet/when he is/ in a good mood	Very sweet	When he is	In a good mood	Rahul Sings
83	Select the alternative which best express the meaning of the idioms/phrase. ‘A Close shave’	Narrow escape	Victory	Defeat	Diversion
84	Fill in the blank with idiom/Phrase out of the given options. Vinit does not like the logic and keeps his ----- all the time.	Breadwinner	Playoff	Cart before the horse	Head in the clouds
85	Choose the correct meaning of idioms given below The Project advanced by ‘LEAPS and BOUNDS’	Simply	Sharply	Slowly	Rapidly

86	Choose the correct meaning of the given idiom/phrase. 'Pain in the neck'	To be unable to deal with someone stronger	Someone or something that is very annoying	To suffer pain because of overexertion of neck muscles	To relieve someone from a painful condition
87	Choose the one which can be substituted for the given word/sentence. Medicine given to counteract poison	Antiseptic	Antidote	Antibiotic	Anti-Fungal
88	Choose the correct one which can be substituted for the given work/sentence. Person who files a suit	A cause	Plaintiff	Suitor	Charger
89	Select the appropriate word for the given sentence One who is always doubting	Positivist	Rationalist	Deist	Sceptic
90	Select the appropriate word for the given sentence A person who lives by himself	Prophet	Extrovert	Recluse	Monk
91	No profit accrued -----me from this business	To	With	On	One of these
92	Don't spend -----others, you must stand on your own feet	Upon	On	To	For
93	The computer class start -----8.30 -----the morning	on,in	at,in	at,at	in,at
94	No sooner did he arrive-----the hotel than it started raining	at	in	on	upon
95	Given below are six sentences, out of which sentences 'A' and 'F' are in the correct position. Sentences B,C,D and E are in a jumbled order. Select the option that gives the correct order. A. Folk tales offer lots of advice B. Most of them deliver the message clearly C. The reason was that he was not properly dressed D. There is a story of Birbal not being allowed to attend the king's free lunch. E. This happened despite his high intellectual abilities. F. The advice thus conveyed is 'Don't judge a book by its cover'	ADEBCF	ABCEDF	ACEDBF	ABDCEF
96	Given below are a sentence is divided into four jumbled parts. Rearrange the parts and make a meaningful sentence. Scientists have discovered (A)/that may pave way for sustainable ways to clean up oil spills(B)/ a unique oil-eating bacteria in the Mariana Trench, the (C)/ deepest part of the earth's oceans, a finding(D)	CDBA	BCDA	ACDB	ADCB
97	Rearrange the following parts and make meaningful sentence A. Concept used when B. Philosophy of technology C. Technological somnambulism is a D. Talking about the	CADB	ABCD	BCDA	ADCB
98	Rearrange the following parts and make a meaningful sentence. P. Purify themselves of Sin, to transform	PSRQ	QPRS	SPQR	QSPR

	Q. Pilgrimages individually, travelling to R. Themselves through a trial of faith S. Distant shrines as a penance to				
	Direction (Q.99 to Q.102) In each of the following question, out of the given group of wordings, choose the appropriately spelled				
99		Obeisance	Obeisanse	Obesance	Obesanse
100		Possesses	Posseses	Posesses	Poseses
101		Mutiniers	Muteneers	Muteniers	Mutineers
102		Haunchhes	Exultent	Marketed	Transmit
103	Fill in the blank with the future perfect tense form of the verb given in the bracket “Mary -----seats for us” (Save)	Ought to save	Should save	Would have saved	Would save
104	Joseph -----by everyone after he won the competition	Was congratulated	Congratulate	Shall be congratulated	Have been congratulated
105	Identify the tense used in the given sentence “Everyone shall be reaching by tomorrow”	Future infinite tense	Present continuous tense	Future perfect continuous tense	Future continuous tense
106	Fill in the blank with the past indefinite tense form of the verb given in the bracket ‘After a long day at work, Rachel -----tired. (be)	is	are	had been	has been
107	When he P: did not know Q: he was nervous and R : heard the hue and cry at midnight S: what to do The proper sequence should be:	RQPS	QSPR	SQPR	PQRS
108	It has been established that P: Einstein was Q: although a great scientist R: weak in arithmetic S: right from his school days The proper sequence should be:	SRPQ	QPRS	QPSR	RQPS
109	I read an advertisement that said P: Posh, air-conditioned Q: gentleman of taste R: are available for S: Fully furnished rooms The proper sequence should be:	PQRS	PSRQ	PSQR	SRPQ
110	Since the beginning of history	QRPS	SQPR	SQRP	QPSR

	P: have managed to catch Q: the Eskimos and Red Indians R: by a very difficult method S: a few specimens of this aquatic animal				
111	In 1919 the British Government honored her by “Kaiser-e-Hind Gold Medal” for her Social Work.	Krushnabai Ghumatkar	Awantikabai Gokhale	Uma Bapat	Pandita Ramabai
112	Vinayak Savarkar, Trimbakarao Mhaslar and Ravji Krishna Firs Founded an organisation called ----- in Nashik.	Mitra Mela	Rashtrabhakt Samuh	Abhinav Bharat	Rashtriya Samuh
113	Ministry of Labour & Employment, Government of India have been set up the Labour Institute at the Name of ----	S. Radhakrishnan	Rajendra Prasad	Fakhruddin Ali Ahmed	V. V. Giri
114	Which city is known as the “Wine Capital of India”	Kolhapur	Nashik	Bhandara	Nagpur
115	-----started spreading education in Konkan.	Elphinstone	Worren Hastings	T.B. Jervois	Willisam Jervois
116	Which is correct pair	Vishnushastri Pandit – Induprakash	Bhau Mahaajan – Dnyanoday	Henry Valentine – Dnyanprakash	Krishnaji Ranade – Dnayadarshak – Trimonthly
117	Umaji Naik was the leader of -----	The Kolis	The Bhillas	The Ramoshis	The Katkaris
118	Which of the following department Dr. B. R. Ambedkar was appointed as a Head of Viceroy’s executive council in 1942?	Social Welfare	Labour	Education	Railway
119	In which newspaper did Gopal Hari Deshmukh publish his ‘Shatapatre’	Prabhakar	Darpan	Induprakash	Brahmachari
120	Who wrote the essay “Bhandval gele, Vyapar gela”	M.G. Ranade	B.G. Tilak	G.G. Agarkar	G.H. Deshmukh
121	For the public awareness in Sanyukta Maharashtra Movement, who presented a street day, “Mumbai Kunachi”	Shahir Amar Sheikh	Lokshahir Annabhau Sathe	Shahir Krishna Sable	Shahir Karim Sheikh
122	What is the name of river after confluence of Wardha river and Vainganga River	Wardha	Pranhita	Vainganga	Chandrabhaga
123	Which of the following pair of Sanctuaries in Maharashtra is not true?	Rehkuri-Ahamadnagar	Nagzira – Amravati	Gautala – Aurangabad	Maldhok – Solapur
124	-----is a modern port of convenience in India launched in 1989.	Mumbai	Jawaharlal Nehru	Sindhudurg	Devgad
125	Balasaheb Thackeray Haridra (Turmeric) Research and Training Centre is established in	Basmath in Hingoli	Chakur in Latur	Shahada in Nandurbar	Devali in Wardha
126	The forest area of the State at the end of March, 2022 was -----per cent of geographical area.	17.1	18.3	20.1	22.2
127	Nagpur to Shirdi road (about 520) of Hindu Hruday Samrat Balasaheb Thackeray Maharashtra Samruddhi Mahamarg has been completed and opened to traffic from -----	October, 2022	November, 2022	December, 2022	January, 2023
128	As per Census 2011, the literacy rate of female for the State is -----Per cent.	75.9	76.9	77.9	78.9
129	-----, which serve as a guiding factor for fixation and revision of minimum wages of labourers under the Minimum Wages Act, 1948 engaged in agricultural occupations, are compiled by the Labour Bureau, GoI.	CPI-AL and CPI-RL	GNI and NNI	GVA and GDP	NSDP and GDVA

130	The net sown area is about -----per cent of the total geographical area of the state -----	54	64	70	74
131	The year ----- is declared as the 'International Year of Millets' by United Nations	2021	2022	2023	2024
132	NABARD stand for	National Bank for Agricultural and Rural Development	National Board of Agricultural and Rural Development	National Bank of Agrarian and Rural Development	National Agriculture Bank for Rural Development
133	Who is known as 'Keshavsut'	K.K.Damale	G.J.Deshmukh	C.T. Khanolkar	T.B. Thombare
134	Who is the author of the Book 'Upara'	Krishnaji Damale	Kaka Kalelkar	Laximan Mane	Vasant Bapat
135	NARI is located at	Pune	Mumbai	Nagpur	Navi Mumbai
136	Dr. Panjarao Deshmukh Agricultural University established in-----	20-Oct-69	20-Oct-70	20-Oct-71	20-Oct-72
137	WTO 12 th ministerial conference was held in -----	Geneva	Nairobi	Bali	Hong Kong
138	Industrial Policy, 2019 is being implemented in the state from -----	April, 2019	September, 2019	April, 2020	September, 2020
139	Shri. Parshuram Khune has been awarded the Padama Award in which field?	Art	Social work	Science and Engineering	Trade and Industry
140	Revised Maharashtra Electric Vehicle Promoting Policy, 2021 Declared in -----	April, 2021	May, 2021	June, 2021	July, 2021
141	Maharashtra startup Yatra was organized on-----across the State to create awareness about entrepreneurship and innovation.	1-May-22	5-Jun-22	15-Aug-22	Nov-22
142	The article ----- of the constitution provides that it will be the duty of every citizen to renounce practice derogatory to the dignity of women.	51-A (a)	57 (1)	51-A (e)	77
143	Who is said to be the Father of Indian labour Movement?	Mahatma Gandhi	N.M. Lokhande	Lala Lajpat Rai	Jawarlal Nehru
144	Article -----of the Indian Constitution deals with the term of office of Governor.	124	156	214	240
145	The----is supposed to be the soul of the Indian Constitution.	Preamble	Fundamental Rights	Fundamental Duties	Directive Principles
146	Rashtriya Mill Mazdoor Sangh Union mainly operates in	Chemical Industry	Textile Industry	Power Industry	Engineering Industry
147	The ILO convention No. 81 relates to -----	Unemployment	Minimum age (Industry)	Social Security	Labour Inspection
148	Tejaswini Sawant is related with-----	Shooting	Wrestling	Badminton	Swimming
149	----- was the first Chief Minister of Maharashtra?	Yashvantrao Chavan	Shankarrao Chavan	Ashok Chavan	Vasantrao Naik
150	International Sports University Maharashtra (ISUM) located at	Pune	Nagpur	Latur	Kolhapur
