

Indian Institute of Management Lucknow

blended MBA Entrance Exam (Sample Questions)

This document contains a representative selection of questions that have been asked in previous years. It is intended to provide candidates with an understanding of the nature and pattern of questions that may appear in the IIM Test. The sections, number of questions in each section, and instructions have been included solely to help candidates familiarize themselves with the structure and format of the examination.

Please note that the number of sections, types of questions, number of questions, and instructions are subject to change from year to year at the discretion of the Institute.

SECTION I (Quantitative Ability (QA))

1. The integers 1, 2, ..., 40 are written on a blackboard. The following operation is then repeated 39 times: In each repetition, any two numbers, say a and b , currently on the blackboard are erased and a new number $a + b - 1$ is written. What will be the number left on the board at the end?

- (1) 820 (2) 821 (3) 781 (4) 819 (5) 780

Directions for Questions 2 and 3:

Cities A and B are in different time zones. A is located 3000 km east of B. The table below describes the schedule of an airline operating non-stop flights between A and B. All the times indicated are local and on the same day.

Departure		Arrival	
City	Time	City	Time
B	8:00 am	A	3:00 pm
A	4:00 pm	B	8:00 pm

Assume that planes cruise at the same speed in both directions. However, the effective speed is influenced by a steady wind blowing from east to west at 50 km per hour.

2. What is the time difference between A and B?

- (1) 2 hours
(2) 2 hours and 30 minutes
(3) 1 hour
(4) 1 hour and 30 minutes
(5) Cannot be determined

3. What is the plane's cruising speed in km per hour?

- (1) 550 (2) 600 (3) 500 (4) 700 (5) Cannot be determined.

4. Ten years ago, the ages of the members of a joint family of eight people added up to 231 years. Three years later, one member died at the age of 60 years and a child was born during the same year. After another three years, one more member died, again at 60, and a child was born during the same year. The current average age of this eight-member joint family is nearest to

- (1) 22 years (2) 21 years (3) 25 years (4) 24 years (5) 23 years

5. A function $f(x)$ satisfies $f(1) = 3600$, and $f(1) + f(2) + \dots + f(n) = n^2 f(n)$, for all positive integers $n > 1$. What is the value of $f(9)$?

- (1) 240 (2) 200 (3) 100 (4) 120 (5) 80

Directions for Questions 6 through 9:

Each question is followed by two statements A and B. Indicate your responses based on the following directives:

Mark (1) if the question can be answered using A alone but not using B alone.

Mark (2) if the question can be answered using B alone but not using A alone.

Mark (3) if the question can be answered using A and B together, but not using either A or B alone.

Mark (4) if the question cannot be answered even using A and B together.

6. Consider integers x , y and z . What is the minimum possible value of $x^2 + y^2 + z^2$?

A: $x + y + z = 89$

B: Among x , y , z , two are equal.

7. Rahim plans to draw a square JKLM with a point O on the side JK but is not successful. Why is Rahim unable to draw the square?

A: The length of OM is twice that of OL.

B: The length of OM is 4 cm.

8. The average weight of a class of 100 students is 45 kg. The class consists of two sections, I and II, each with 50 students. The average weight, W_{11} , of Section I is smaller than the average weight, W_{12} , of Section II. If the heaviest student, say Deepak, of Section II is moved to Section I, and the lightest student, say Poonam, of Section I is moved to Section II, then the average weights of the two sections are switched, i.e., the average weight of Section I becomes W_{12} and that of Section II becomes W_{11} . What is the weight of Poonam?

A: $W_{12} - W_{11} = 1.0$

B: Moving Deepak from Section II to I (without any move from I to II) makes the average weights of the two sections equal

9. ABC Corporation is required to maintain at least 400 Kilolitres of water at all times in its factory, in order to meet safety and regulatory requirements. ABC is considering the suitability of a spherical tank with uniform wall thickness for the purpose. The outer diameter of the tank is 10 meters. Is the tank capacity adequate to meet ABC's requirements?

A: The inner diameter of the tank is at least 8 meters.

B: The tank weighs 30,000 kg when empty, and is made of a material with density of 3 gm/cc.

10. What is the number of distinct terms in the expansion of $(a+b+c)^{20}$?

- (1) 231 (2) 253 (3) 242 (4) 210 (5) 228

SECTION II Data Interpretation and Logical Reasoning (DILR)

Directions for Questions 1 to 3: Answer the following questions based on the statements given below:

- (i) There are three houses on each side of the road.
- (ii) These six houses are labeled as P, Q, R, S, T and U.
- (iii) The houses are of different colours, namely, Red, Blue, Green, Orange, Yellow and White.
- (iv) The houses are of different heights.
- (v) T, the tallest house, is exactly opposite to the Red coloured house.
- (vi) The shortest house is exactly opposite to the Green coloured house.
- (vii) U, the Orange coloured red house, is located between P and S.
- (viii) R, the Yellow coloured house, is exactly opposite to P.
- (ix) Q, the Green coloured house, is exactly opposite to U.
- (x) P, the White coloured house, is taller than R, but shorter than S and Q.

1. What is the colour of the house diagonally opposite to the Yellow coloured house?

- (1) White (2) Blue (3) Green (4) Red (5) none of these

2. Which is the second tallest house?

- (1) P (2) S (3) Q (4) R (5) cannot be determined

3. What is the colour of the tallest house?

- (1) Red (2) Blue (3) Green (4) Yellow (5) none of these

Directions for Questions 4 to 7: Answer the following questions based on the information given below:

In a sports event, six teams (A, B, C, D, E and F) are competing against each other. Matches are scheduled in two stages. Each team plays three matches in Stage-I and two matches in Stage-II. No team plays against the same team more than once in the event. No ties are permitted in any of the matches. The observations after the completion of Stage-I and Stage-II are as given below.

Stage-I:

- One team won all the three matches.
- Two teams lost all the matches.
- D lost to A but won against C and F.
- E lost to B but won against C and F.
- B lost at least one match.
- F did not play against the top team of Stage-I.

Stage-II:

- The leader of Stage-I lost the next two matches.
- Of the two teams at the bottom after Stage-I, one team won both matches, while the other lost both matches.
- One more team lost both matches in Stage-II.

4. The two teams that defeated the leader of Stage-I are:

- (1) F & D (2) E & F (3) B & D (4) E & D (5) F & D

5. The only team(s) that won both matches in Stage-II is (are):

- (1) B (2) E & F (3) A, E & F (4) B, E & F (5) B & F

6. The teams that won exactly two matches in the event are:

- (1) A, D & F (2) D & E (3) E & F (4) D, E & F (5) D & F

7. The team(s) with the most wins in the event is (are):

- (1) A (2) A & C (3) F (4) E (5) B & E

Directions for Questions 8 to 11: Answer the following questions based on the information given below:

The proportion of male students and the proportion of vegetarian students in a school are given below. The school has a total of 800 students, 80% of whom are in the Secondary Section and rest equally divided between Class 11 and 12.

	Male (M)	Vegetarian (V)
Class 12	0.60	
Class 11	0.55	0.50
Secondary Section		0.55
Total	0.475	0.53

8. What is the percentage of vegetarian students in Class 12?

- (1) 40 (2) 45 (3) 50 (4) 55 (5) 60

9. In Class 12, twenty five per cent of the vegetarians are male. What is the difference between the number of female vegetarians and male non-vegetarians?

- (1) less than 8 (2) 10 (3) 12 (4) 14 (5) 16

10. What is the percentage of male students in the secondary section?

- (1) 40 (2) 45 (3) 50 (4) 55 (5) 60

11. In the Secondary Section, 50% of the students are vegetarian males. Which of the following statements is correct?

- (1) Except vegetarian males, all other groups have same number of students.
(2) Except non-vegetarian males, all other groups have same number of students.
(3) Except vegetarian females, all other groups have same number of students.
(4) Except non-vegetarian females, all other groups have same number of students.
(5) All of the above groups have the same number of students.

Section III Verbal Ability and Reading Comprehension (VARC)

Directions for Questions 1 to 5: The passage given below is followed by a set of five questions. Choose the most appropriate answer to each question.

Fifteen years after communism was officially pronounced dead, its spectre seems once again to be haunting Europe. Last month, the Council of Europe's parliamentary assembly voted to condemn the "crimes of totalitarian communist regimes," linking them with Nazism and complaining that communist parties are still "legal and active in some countries." Now Goran Lindblad, the conservative Swedish MP behind the resolution, wants to go further. Demands that European Ministers launch a continent-wide anti-communist campaign – including school textbook revisions, official memorial days, and museums – only narrowly missed the necessary two-thirds majority. Mr. Lindblad pledged to bring the wider plans back to the Council of Europe in the coming months.

He has chosen a good year for his ideological offensive: this is the 50th anniversary of Nikita Khrushchev's denunciation of Josef Stalin and the subsequent Hungarian uprising, which will doubtless be the cue for further excoriation of the communist record. Paradoxically, given that there is no communist government left in Europe outside Moldova, the attacks have if anything, become more extreme as time has gone on. A clue as to why that might be can be found in the rambling report by Mr. Lindblad that led to the Council of Europe declaration. Blaming class struggle and public ownership, he explained "different elements of communist ideology such as equality or social justice still seduce many" and "a sort of nostalgia for communism is still alive." Perhaps the real problem for Mr. Lindblad and his right-wing allies in Eastern Europe is that communism is not dead enough – and they will only be content when they have driven a stake through its heart.

The fashionable attempt to equate communism and Nazism is in reality a moral and historical nonsense. Despite the cruelties of the Stalin terror, there was no Soviet Treblinka or Sobibor, no extermination camps built to murder millions. Nor did the Soviet Union launch the most devastating war in history at a cost of more than 50 million lives – in fact it played the decisive role in the defeat of the German war machine. Mr. Lindblad and the Council of Europe adopt as fact the wildest estimates of those "killed by communist regimes" (mostly in famines) from the fiercely contested Black Book of Communism, which also underplays the number of deaths attributable to Hitler. But, in any case, none of this explains why anyone might be nostalgic in former communist states, now enjoying the delights of capitalist restoration. The dominant account gives no sense of how communist regimes renewed themselves after 1956 or why Western leaders feared they might overtake the capitalist world well into the 1960s. For all its brutalities and failures, communism in the Soviet Union, Eastern Europe, and elsewhere delivered rapid industrialization, mass education, job security, and huge advances in social and gender equality. Its existence helped to drive up welfare standards in the West, and provided a powerful counterweight to Western global domination.

It would be easier to take the Council of Europe's condemnation of communist state crimes seriously if it had also seen fit to denounce the far bloodier record of European colonialism – which only finally came to an end in the 1970s. This was a system of racist despotism, which dominated the globe in Stalin's time. And while there is precious little connection between the ideas of fascism and communism, there is an intimate link between colonialism and Nazism. The terms *lebensraum* and *konzentrationslager* were both first used by the German colonial regime in south-west Africa (now Namibia), which committed genocide against the Herero and Nama peoples and bequeathed its ideas and personnel directly to the Nazi party.

Around 10 million Congolese died as a result of Belgian forced labour and mass murder in the early twentieth century; tens of millions perished in avoidable or enforced famines in British-ruled India; up to a million Algerians died in their war for independence, while controversy now rages in France about a new law requiring teachers to put a positive spin on colonial history. Comparable

atrocities were carried out by all European colonialists, but not a word of condemnation from the Council of Europe. Presumably, European lives count for more.

No major twentieth century political tradition is without blood on its hands, but battles over history are more about the future than the past. Part of the current enthusiasm in official Western circles for dancing on the grave of communism is no doubt about relations with today's Russia and China. But it also reflects a determination to prove there is no alternative to the new global capitalist order – and that any attempt to find one is bound to lead to suffering. With the new imperialism now being resisted in the Muslim world and Latin America, growing international demands for social justice and ever greater doubts about whether the environmental crisis can be solved within the existing economic system, the pressure for alternatives will increase.

1. Among all the apprehensions that Mr. Goran Lindblad expresses against communism, which one gets admitted, although indirectly, by the author?

- (1) There is nostalgia for communist ideology even if communism has been abandoned by most European nations.
- (2) Notions of social justice inherent in communist ideology appeal to critics of existing systems.
- (3) Communist regimes were totalitarian and marked by brutalities and large scale violence.
- (4) The existing economic order is wrongly viewed as imperialistic by proponents of communism.
- (5) Communist ideology is faulted because communist regimes resulted in economic failures.

2. What, according to the author, is the real reason for a renewed attack against communism?

- (1) Disguising the unintended consequences of the current economic order such as social injustice and environmental crisis.
- (2) Idealising the existing ideology of global capitalism.
- (3) Making communism a generic representative of all historical atrocities, especially those perpetrated by the European imperialists.
- (4) Communism still survives, in bits and pieces, in the minds and hearts of people.
- (5) Renewal of some communist regimes has led to the apprehension that communist nations might overtake the capitalists.

3. The author cites examples of atrocities perpetrated by European colonial regimes in order to

- (1) compare the atrocities committed by colonial regimes with those of communist regimes.
- (2) prove that the atrocities committed by colonial regimes were more than those of communist regimes.
- (3) prove that, ideologically, communism was much better than colonialism and Nazism.
- (4) neutralise the arguments of Mr. Lindblad and to point out that the atrocities committed by colonial regimes were more than those of communist regimes.
- (5) neutralise the arguments of Mr. Lindblad and to argue that one needs to go beyond and look at the motives of these regimes.

4. Why, according to the author, is Nazism closer to colonialism than it is to communism?

- (1) Both colonialism and Nazism were examples of tyranny of one race over another.
- (2) The genocides committed by the colonial and the Nazi regimes were of similar magnitude.
- (3) Several ideas of the Nazi regime were directly imported from colonial regimes.
- (4) Both colonialism and Nazism are based on the principles of imperialism.
- (5) While communism was never limited to Europe, both the Nazis and the colonialists originated in Europe.

5. Which of the following cannot be inferred as a compelling reason for the silence of the Council of Europe on colonial atrocities?

- (1) The Council of Europe being dominated by erstwhile colonialists.
- (2) Generating support for condemning communist ideology.
- (3) Unwillingness to antagonize allies by raking up an embarrassing past.
- (4) Greater value seemingly placed on European lives.
- (5) Portraying both communism and Nazism as ideologies to be condemned.

Directions for Questions 6 to 9: In each of the following questions there are sentences that form a paragraph. Identify the sentence(s) or part(s) of sentence(s) that is/are correct in terms of grammar and usage (including spelling, punctuation and logical consistency). Then, choose the **most appropriate** option.

6.

- A. In 1849, a poor Bavarian immigrant named Levi Strauss
- B. landed in San Francisco, California,
- C. at the invitation of his brother-in-law David Stern
- D. owner of dry goods business.
- E. This dry goods business would later become known as Levi Strauss & Company.

(1) B only (2) B and C (3) A and B (4) A only (5) A, B and D

7.

- A. In response to the allegations and condemnation pouring in,
- B. Nike implemented comprehensive changes in their labour policy.
- C. Perhaps sensing the rising tide of global labour concerns,
- D. from the public would become a prominent media issue,
- E. Nike sought to be an industry leader in employee relations.

(1) D and E (2) D only (3) A and E (4) A and D (5) B, C and E

8.

- A. Charges and countercharges mean nothing
- B. to the few million who have lost their home.
- C. The nightmare is far from over, for the government
- D. is still unable to reach hundreds who are marooned.
- E. The death count have just begun.

(1) A only (2) C only (3) A and C (4) A, C and D (5) D only

9.

- A. I did not know what to make of you.
- B. Because you'd lived in India, I associate you more with my parents than with me.
- C. And yet you were unlike my cousins in Calcutta, who seem so innocent and obedient when I visited them.
- D. You were not curious about me in the least.
- E. Although you did make effort to meet me.

(1) A only (2) A and B (3) A and E (4) D only (5) A and D

Directions for Questions 10 to 11: In each of the questions, a word has been used in sentences in five different ways. Choose the option corresponding to the sentence in which the usage of the word is incorrect or inappropriate.

10. Run

- (1) I must run fast to catch up with him.
- (2) Our team scored a goal against the run of play.
- (3) You can't run over him like that.
- (4) The newly released book is enjoying a popular run.
- (5) This film is a run-of-the-mill production.

11. Round

- (1) The police fired a round of tear gas shells.
- (2) The shop is located round the corner.
- (3) We took a ride on the merry-go-round.
- (4) The doctor is on a hospital round.
- (5) I shall proceed further only after you come round to admitting it.