NMAT 2022 Memory Based Question Paper PDF

Section III. Language Skills

Question 1

Excess inventory, a massive problem for many businesses, has several causes, some of which are unavoidable. Overstocks may accumulate through production overruns or Certain styles and colors prove unpopular. With some products-computers and software, toys, and books-last year's models are difficult to move even at huge discounts. Occasionally the competition introduces a better product. But in many cases the public's buying tastes simply change, leaving a manufacturer or distributor with thousands (or millions) of items that the fickle public no longer wants.

One common way to dispose of this merchandise is to sell it to a liquidator, who buys as cheaply as possible and then resells the merchandise through catalogs, discount stores, and other outlets. However, liquidators may pay less for the merchandise than it cost to make it. Another way to dispose of excess inventory is to dump it. The corporation takes a straight cost write-off on its taxes and hauls the merchandise to a landfill. Although it is hard to believe, there is a sort of convoluted logic to this approach. It is perfectly legal, requires little time or preparation on the company's part, and solves the problem quickly. The drawback is the remote possibility of getting caught by the news media. Dumping perfectly useful products can turn into a public relations nightmare. Children living in poverty are freezing and XYZ Company has just sent 500 new snowsuits to the local dump. Parents of young children are barely getting by and QRS Company dumps 1,000 cases of disposable diapers because they have slight imperfections.

The managers of these companies are not deliberately wasteful; they are simply unaware of all their alternatives. In 1976 the Internal Revenue Service provided a tangible incentive for businesses to contribute their products to charity. The new tax law allowed corporations to deduct the cost of the product donated plus half the difference between cost and fair market selling price, with the proviso that deductions cannot exceed twice cost. Thus, the federal government sanctions-indeed, encourages-an above-cost federal tax deduction for companies that donate inventory to charity.

1. The passage is primarily concerned with
- A. pointing out a problem
- B. criticizing a particular course of action errors.
- C. discussing possible responses to a problem
- D. analyzing the causes of a repeated occurrence
- E. evaluating two different approaches

2. It can be inferred from the passage that manufacturers would be most likely to avoid using a liquidator to dispose of excess inventory for which of the following reasons?
- A. Using a liquidator has questionable legal status.
- B. Using a liquidator requires costly preparation on the part of the manufacturer.
- C. Having the products appear in discount outlets can damage the manufacturers' public image.
- D. The liquidator often pays less for the inventory than the manufacturer spent to produce it.
- E. The manufacturer is allowed no tax write-off for the loss incurred when excess inventory is sold to a liquidator.

3. The passage provides information that supports which of the following statements?
- A. Excess inventory results most often from insufficient market analysis by the manufacturer.
- B. Products with slight manufacturing defects may contribute to excess inventory.
- C. Few manufacturers have taken advantage of the changes in the federal tax laws.
- D. Manufacturers who dump their excess inventory are often caught and exposed by the news media.
- E. Most products available in discount stores have come from manufacturers' excess inventory stock.

4. Information in the passage suggests that which of the following, if true, would make donating excess inventory to charity less attractive to manufacturers than dumping?
- A. The costs of getting the inventory to the charitable destination are greater than the above-cost tax deduction.
- B. The news media give manufacturers' charitable contributions the same amount of coverage that they give dumping.
- C. No straight-cost tax benefit can be claimed for items that are dumped.
- D. The fair-market value of an item in excess inventory is 1.5 times its cost.
- E. Items end up as excess inventory because of a change in the public's preferences.

Question 2

Directions: Rearrange the jumbled sentences to show the appropriate sequence.

(A) For example, when the early homo sapiens left their homes in search for food, they would risk death and injury from dangerous animals.

(B) Throughout human history, the universe has presented an innumerable amount of dangers to explorers.

(C) Today, many adventure enthusiasts seek to find the thrills and adrenaline rush which their ancestors had experienced in the wild.

(D) The tradition of humans going out to experience the dangers of unknown nature still exists.

- A. ABCD
- B. ABDC
- C. BADC
- D. DABC
- E. CBAD

Question 3

Directions: In the given question, the sentence has four underlined words or phrases. Identify the one underlined work or phrase that must be changed in order to make the sentence correct. Mark E for no error.

Though they were written almost a year after they separated, Salim and Javed's stories were published on the same day.

- A. Though
- B. almost
- C. Salim and Javed's
- D. were published
- E. No error

Question 4

Directions: Choose the set of prepositions whose meaning and sequence best fits the 3 given sentences.

1. After the burglary, the office bought a sophisticated security system as an insurance_____any such losses.
2. She put_____a brave front at the end of the meeting.
3. Sunil decided to avail himself_____the opportunity to go to Australia for training.

(A) on
(B) of
(C) at
(D) against
(E) up
(F) with

- A. ACE
- B. ADB
- C. DAB
- D. DEB
- E. FCD

Question 5

allusion : reference :: _____ : _____

Directions: Choose the word or pair of words that best completes the relationship to the given pair:

- A. bombast : broadcast
- B. dearth : affection
- C. opulence : grandiloquence
- D. ostentation : swagger
- E. paucity : scarcity

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Section I. Quantitative Skills

Question 1

The integers 1, 2 ... 40 are written on the 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?

- A. 780
- B. 781
- C. 819
- D. 820
- E. 821

Question 2

How many 4-digit numbers of the form AB61 are there that are divisible by 11 (where A and B are distinct digits)?

- A. 3
- B. 4
- C. 7
- D. 13
- E. 14

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Question 3

Sumeet spends 10% of his salary on his child's education, 20% of the remainder on rent and 25% of the balance on garments. Finally, he is left with $ 5,400. What is his salary?

- A. $ 10,000
- B. $ 11,000
- C. $ 12,000
- D. $ 13,000
- E. $ 14,000

Question 4

A dishonest dealer claims to sell his goods at 20% discount, but uses a weight of 800 grams for weighing 1 kilogram of goods. What is the profit or loss being made by the dealer?

- A. 40% loss
- B. 5% loss
- C. No profit or loss
- D. 5% profit
- E. 10% profit

Question 5

Given the quadratic equation $x^2 - (A - 3)x - (A - 7) = 0$, for what value of A is the sum of squares of the roots 0?

- A. -2
- B. 3
- C. 5
- D. 10
- E. 13

Question 6

The vice-chancellor of ABC University decided to form a committee to look into the feasibility of introduction of semester systems at the undergraduate level. Five members from the Executive Council and 7 members from the Academic Council were found to be suitable for the job. In how many ways can the vice-chancellor form the committee of 6 members such that at least 4 members of the committee belong to the Academic Council?

- A. 350
- B. 420
- C. 455
- D. 456
- E. 462

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Question 7

Directions: Go through the given table and solve the questions based on it.

State	Total Population (in Lakhs)		Male Population (in Lakhs)		Rural Population (%)		Area (In Sq. Km)
	2001	2006	2001	2006	2001	2006	
Uttar Pradesh	1660	1731	875	911	71	70	2,38,576
Madhya Pradesh	603	674	314	360	72	71	3,08,144
Andhra Pradesh	761	823	385	417	69	68	2,75,068
Tamil Nadu	624	697	315	348	70	67	1,30,058
Orissa	368	384	186	195	73	72	1,55,707
Maharsshtra	968	1013	504	527	68	66	3,07,713
West Bengal	802	865	412	446	69	68	88,752

1. What is the percentage increase in the female population in Uttar Pradesh from 2001 to 2006?

- A. 3.6%
- B. 4%
- C. 4.2%
- D. 4.3%
- E. 4.5%

2. In which of the following states is the number of males per square metre the least in 2006?

- A. Uttar Pradesh
- B. Madhya Pradesh
- C. Andhra Pradesh
- D. Tamil Nadu
- E. Orissa

3. What is the simple annual growth rate (SAGR) of the female population in Uttar Pradesh from 2001 to 2006?

- A. 0.68%
- B. 0.74%
- C. 0.82%
- D. 0.89%
- E. 1.11%

4. What is the average percentage of rural population in the given states in the year 2001?

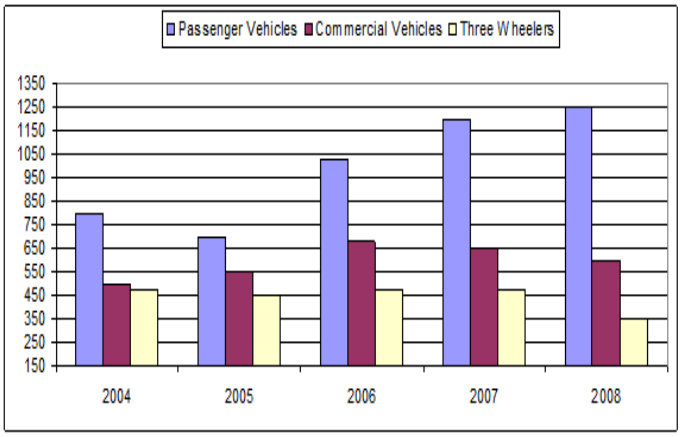
- A. 68.12%
- B. 68.85%
- C. 69.12%
- D. 70.28%
- E. 71.36%

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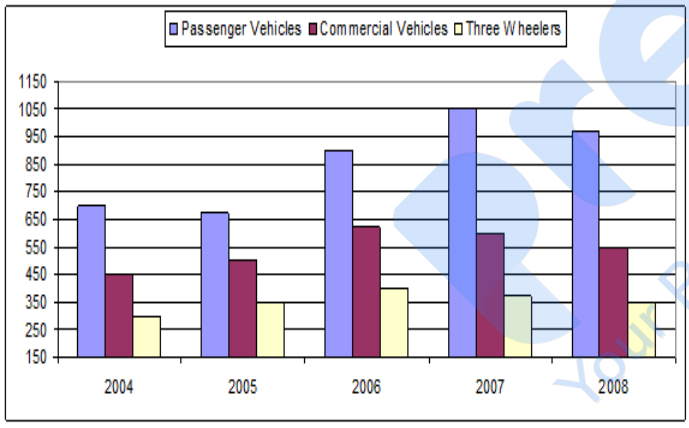
Question 8

Directions: Go through the given graphs and solve the questions based on them.

Automobile Production Trends



Automobile Domestic Sales Trends



1. Which of the following years exhibits the highest percentage decrease over the preceding year in automobile production?

- A. 2004
- B. 2005
- C. 2006
- D. 2007
- E. 2008

2. Assuming that whatever was not sold domestically was exported, which year registered max. growth in exports of automobiles?

- A. 2004
- B. 2005
- C. 2006
- D. 2007
- E. 2008

3. If the ratio of the domestic sale price of a commercial vehicle, a passenger vehicle, and a three-wheeler is 5 : 3 : 2, then approximately what percent of earnings is contributed by the commercial vehicle segment to the overall earnings from domestic sales during the period 2004–2008?

- A. 11%
- B. 27%
- C. 45%
- D. 47%
- E. 52%

4. The ratio between absolute increase in domestic sales over preceding year and absolute increase in production over the preceding year is highest during which year?

- A. 2004
- B. 2005
- C. 2006
- D. 2007
- E. 2008

Question 9

Directions: A question is followed by two statements, numbered (1) and (2). Using the information provided and general knowledge, decide whether the information given is sufficient to solve the problem.

Is $x^2 - y^2$ even?

(1) $x + y$ is even.
(2) $x - y$ is odd.

- A. Statement (1) ALONE is sufficient, but statement (2) ALONE is not sufficient.
- B. Statement (2) ALONE is sufficient, but statement (1) ALONE is not sufficient.
- C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- D. EACH statement ALONE is sufficient.
- E. Statements (1) and (2) TOGETHER are NOT sufficient.

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Section II. Logical Reasoning

Question 1

Automation, however essential it may be to maximise a country's economic production and minimise its costs, should be rejected. The health care industry wants to increase revenues while reducing costs. Hence, it proposes greater automation of health care. This radical automation of health care would cause patients to lose trust in the system as the health care they would receive would lack the personal touch that, according to several studies, patients desire.

Which of the following expresses the main point of the argument?

- A. Due to economic forces, automation of health care is inevitable.
- B. Patients desire personalised care.
- C. Trends in the general economy do not apply to the health care industry.
- D. The health care industry is becoming too greedy.
- E. The health care industry should not be heavily automated.

Question 2

Directions: In the question there is a statement followed by two conclusions, numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows from the information given in the statement.

Statements: Government has spoiled many top ranking financial institutions by appointing bureaucrats as directors of these institutions.

Conclusions:

I. Government should appoint directors of the financial institutions taking into consideration the expertise of the person in the area of finance.

II. The director of the financial institution should have expertise commensurate with the financial work carried out by the institution.

- A. Only Conclusion I follows.
- B. Only Conclusion II follows.
- C. Either Conclusion I or Conclusion II follows.
- D. Neither Conclusion I nor Conclusion II follows.
- E. Both Conclusions I and II follow.

Question 3

Directions: Read the passage below. Solve the question based on the information in the passage.

Ajay would do five tasks: A, B, C, D and E, starting at 9:00 a.m. A is the first task and takes 2 hours. B can be done after A is complete and requires 1 hour. Work on C, which would take 1 hour, can start only after A and B are completed. Ajay can do task D along with B and C, and would take 3 hours. Activity E, with duration of 1 hour, can start upon completion of A, B, C and D.

1. What is the earliest time Ajay could complete task C?

- A. 11:00 a.m.
- B. 12:00 noon
- C. 1:00 p.m.
- D. 2:00 p.m.
- E. 3:00 p.m.

2. If Ajay takes 2 hours for task B and completes other preceding tasks without delay, when can he start task E?

- A. 12:00 noon
- B. 1:00 p.m.
- C. 2:00 p.m.
- D. 3:00 p.m.
- E. 4:00 p.m.

3. What is the earliest time Ajay could complete all tasks?

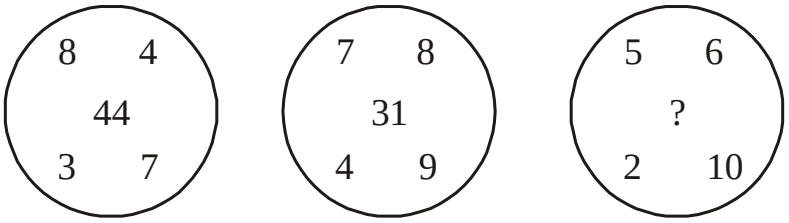
- A. 12:00 noon
- B. 1:00 p.m.
- C. 2:00 p.m.
- D. 3:00 p.m.
- E. 4:00 p.m.

4. If Ajay were to start task D after the completion of task C, and take a break for an hour, then when would he complete all tasks?

- A. 3:00 p.m.
- B. 4:00 p.m.
- C. 5:00 p.m.
- D. 6:00 p.m.
- E. 7:00 p.m.

Question 4

Which number should replace the question mark?



- A. 18
- B. 38
- C. 50
- D. 62
- E. 70

Question 5

Directions: In a marriage party, 278 guests were present. Twenty guests took Pepsi and Dew, 23 guests took Dew and Sprite, 21 guests took Pepsi and Sprite, and 9 guests took all three cold drinks (Pepsi, Sprite and Dew). It is also known that there were equal numbers of bottles of each of the three kinds (Pepsi, Dew and Sprite).

1. How many guests enjoyed Dew or Sprite but not Pepsi?
   - A. 167
   - B. 176
   - C. 199
   - D. 143
   - E. None

2. How many guests enjoyed Pepsi and Dew but not Sprite?
   - A. 189
   - B. 271
   - C. 24
   - D. 39
   - E. None

Question 6

Directions: The question presents a situation and asks you to make a judgment regarding that particular circumstance. Answer the question solely on the basis of the information given.

Illegal adulterated and local alcohol that is largely in supply in the city has become a matter of concern for the citizens and administration. A meeting was called up, which involved local people as well, to discuss the situation. The local people claimed that the administration is not doing enough to deal with the situation. You are representing the administration in the meeting. What should be your reaction to these claims?

- A. Tell them that the real problem lies with people of the city who support the business by buying illegal and adulterated alcohol, and not the district administration.
- B. Tell the citizens to refrain from buying local liquor.
- C. Explain that this problem occurs quite frequently and it is the responsibility of individuals in the city only who run such business to stop such activity. It is not the duty of the district administration to handle such situations.
- D. Begin by telling to the group that the district administration needs the cooperation of citizens to find a solution for this problem.
- E. Don't say anything; let others speak on the issue.

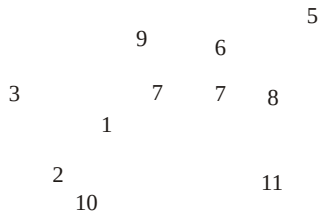
Question 7

How many pairs of letters are there in the word 'CHILDREN' such that each pair has as many letters between them in the word 'CHILDREN' as they have in the English alphabet series?

- A. 2
- B. 3
- C. 4
- D. 5
- E. None of these

Question 8

Directions: Answer the question based on the following diagram.



The rectangle represents bachelors.
The square represents Delhi metropolis.
The circle represents English language.
The triangle represents tourists.

Which of the following is **not** true?

- A. Some English speaking bachelors live in Delhi.
- B. Some bachelors do not know the English language but they are in Delhi.
- C. Some English speaking persons are neither tourists nor are they in Delhi.
- D. Some bachelors are tourists who live in Delhi.
- E. None of the above statements is true.

Question 9

Directions: In the question two statements are given which are followed by four conclusions (1), (2), (3) and (4). Choose the conclusions which logically follow from the given statements.

Statements: All pens are instruments. Some green things are instruments.

Conclusions:
(1) All pens are green.
(2) All green things are pens.
(3) Some instruments are green.
(4) All instruments are pens.

- A. Only (4)
- B. Only (3)
- C. Only (2)
- D. Only (1)
- E. Only (1) & (3)