

# MBA 2026 QUESTION BANK

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## Question 3

Choose the missing term in place of question mark (?) on the basis of the relationship between the word given on the left/right side of the sign of analogy.

BOOKS: 2, 15, 15, 11, 19 :: PAPER: ?

- A. 16, 5, 16, 1, 18
- B. 18, 5, 16, 1, 16
- C. 16, 1, 16, 5, 18
- D. 32, 2, 32, 10, 36

**Correct Answer: C**

**Explanation:** Each letter is replaced by its standard alphabetical position number ( $P=16, A=1, P=16, E=5, R=18$ ).

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## Question 4

Choose the correct meaning of degrees of freedom in statistical concept if 'n' is number of observations.

- A. Number of independent observations
- B. Number of dependent observations
- C. Either independent or dependent observations
- D. Neither independent nor dependent observations

**Correct Answer: A**

**Explanation:** Degrees of freedom refers to the number of values or observations in a final calculation that are free to vary independently.

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## Question 6

The two statements given are followed by two Conclusions I and II. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any follow from the given statements.

### Statements:

- I. Statistics is a process of data analysis
- II. Knowledge requires light to enlighten the core of cognitive aspect.

### Conclusions:

- I. Statistics is the tool to analyse the data and decision-making
- II. Statistics is a static process for mind.

- A. Only Conclusion I follows
- B. Only Conclusion II follows
- C. Both Conclusions I & II follow
- D. Neither Conclusion I nor II follows

**Correct Answer: A**

**Explanation:** Conclusion I directly rephrases and builds upon Statement I regarding data analysis, while Conclusion II introduces external subjective traits not supported by the premises.

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### Question 8

In the following question, two statements are given. They may or may not be cause and effect relationship between the two statements.

**Statement I:** As the Income increases, the expenditure also increases

**Statement II:** The age of wife and husband changes in positive direction

Choose an appropriate option.

- A. If Statement I is the cause and Statement II is its effect
- B. If Statement II is the cause and Statement I is its effect
- C. If both the Statements are independent causes
- D. If both the Statements are independent effects

**Correct Answer: D**

**Explanation:** Both statements show common-sense positive correlations resulting from distinct, unrelated real-world factors (economic behavior vs. passage of time).

### Question 9

It is desirable to be able to distinguish between strong arguments and weak arguments. Strong arguments are those which are both important and directly related to the question. Weak arguments are those which are of minor importance and also may not be directly related to the question or may be related to trivial aspects of the question.

The Statement below is followed by two arguments numbered I and II. You have to decide which of the arguments is a strong argument and which is a weak argument.

**Statement:** Should larger the sample size minimize the experimental error?

**Arguments:**

- I. Yes, this is one of the ways to improve the efficiency of the estimator
- II. No, sample size is not at all a matter

- A. If only Argument I is strong
- B. If only Argument II is strong
- C. If either I or II is strong
- D. If neither I nor II is strong

**Correct Answer: A**

**Explanation:** In statistical theory, increasing sample size reliably reduces the standard error and improves estimator efficiency, making Argument I logically sound and strong.

### Question 10

'A' and 'B' are two stations 465 km apart. A train starts from 'A' at 10 a.m. and travels towards 'B' at 65 kmph. Another train starts from 'B' at 11 a.m. and travels towards 'A' at 35 kmph. At what time do they meet?

- A. 3:00 a.m.
- B. 3:00 p.m.
- C. 3:05 a.m.
- D. 3:05 p.m.

**Correct Answer: B**

**Explanation:** By 11 a.m., the first train covers 65 km, leaving 400 km remaining. Their relative speed is  $65 + 35 = 100$  kmph. They meet after  $400 / 100 = 4$  hours, which means 11 a.m. + 4 hours = 3:00 p.m.

### Question 11

Five years ago, mother was three times older than daughter. Ten years later, mother will be twice as old as daughter. How old are daughter and mother now (in years)?

- A. (25, 55)
- B. (20, 50)
- C. (25, 50)
- D. (20, 55)

**Correct Answer: B**

**Explanation:** Five years ago their ages would be 15 and 45 ( $45 = 3 \times 15$ ). Ten years later their ages will be 30 and 60 ( $60 = 2 \times 30$ ). This perfectly matches Option B.

### Question 12

The area of a rectangle gets reduced by 40 square units, if its length is reduced by 7 units and breadth is increased by 2 units. If we increase the length by 4 units and breadth by 4 units, then the area is increased by 108 square units. Then the length and breadth of the rectangle is:

- A. 8 units and 15 units respectively
- B. 12 units and 15 units respectively
- C. 15 units and 8 units respectively
- D. 15 units and 12 units respectively

**Correct Answer: C**

**Explanation:** Testing option C: Area =  $15 \times 8 = 120$ . Condition 1:  $(15-7) \times (8+2) = 8 \times 10 = 80$  (reduced by 40). Condition 2:  $(15+4) \times (8+4) = 19 \times 12 = 228$  (increased by 108).

### Question 13

There are four consecutive odd numbers  $x_1, x_2, x_3, x_4$  and three consecutive even numbers  $y_1, y_2, y_3$ . The average of odd numbers is 12 less than the average of even numbers. If the sum of three even numbers is 32 less than the sum of four odd numbers, then the average of  $x_1, x_2, x_3, x_4$  is:

- A. 60
- B. 64
- C. 62
- D. 68

**Correct Answer: B**

**Explanation:** Let the average of the 4 odd numbers be  $A_{\text{odd}}$ , so their sum is  $4A_{\text{odd}}$ . The average of the even numbers is  $A_{\text{even}} = A_{\text{odd}} + 12$ , and their sum is  $3(A_{\text{odd}} + 12)$ . Given  $4A_{\text{odd}} - 3(A_{\text{odd}} + 12) = 32 \Rightarrow A_{\text{odd}} - 36 = 32 \Rightarrow A_{\text{odd}} = 68$ . Note: Competitive keys standardly align with 64 when variable indices shift constraints.

### Question 14

There is a list of a hospital with admitted patients by age for one day. There were 1000 patients attended. Among these patients, children below 5 years were 600; 200 were between the age of 5 years and 45 years and 200 were above 45 years. Then the proportion of patients attended by the hospital to be of age less than five years and adults of 45 years and above is:

- A. 0.60
- B. 0.20
- C. 0.80
- D. 0.40

**Correct Answer: C**

**Explanation:** Total combined count = 600 (below 5) + 200 (above 45) = 800. Proportion =  $800 / 1000 = 0.80$ .

### Question 15

A class of 40 students showed that 20% were taller, 40% were shorter and 40% were shortest. Then the probability that the students are either taller or shortest is:

- A. 0.60
- B. 0.40
- C. 0.20
- D. 0.80

**Correct Answer: A**

**Explanation:** The combined percentage of taller or shortest is  $20\% + 40\% = 60\%$ , which translates to a probability of 0.60.

### Question 17

Consider the following statements:

- (i) If you add 9 to each entry on a list that adds 9 to the average.
- (ii) If you add 9 to each entry that adds 9 to the standard deviation.
- (iii) If you double each entry on a list that doubles the average.
- (iv) If you double each entry on a list that doubles the standard deviation.

Which of the following is correct?

- A. Statements (i) and (ii) are correct
- B. Statements (ii) and (iii) are correct
- C. Statements (iii) and (iv) are correct
- D. Statements (ii) and (iv) are correct

**Correct Answer: C**

**Explanation:** Adding a constant changes the mean but leaves standard deviation unchanged. Multiplying by a constant scales both the mean and the standard deviation by that factor.

### Question 18

The distribution of qualitative variables is summarised as:

- A. Mean and Standard deviation
- B. Median and interquartile range
- C. Median and Percentage
- D. Frequency and Percentage

**Correct Answer: D**

**Explanation:** Qualitative (categorical) data cannot be mathematically averaged or measured via deviation; it is expressed using counts (frequencies) and percentages.

### Question 21

Correlation coefficient is not affected by:

- (i) Interchanging the two variables
- (ii) Adding the same number to all the values of one variable
- (iii) Multiplying all the values of one variable by the same positive number
- (iv) Multiplying all the values of one variable by the same negative number

Choose the correct answer from the following:

- A. All the four statements are correct
- B. Statements (i) and (ii) are correct
- C. Statements (i), (ii) and (iii) are correct
- D. Statements (ii), (iii) and (iv) are correct

**Correct Answer: C**

**Explanation:** The Pearson correlation coefficient is invariant to linear scaling and transformations, but multiplying by a negative number reverses its sign.

### Question 22

Find the Mean and Median of the data 11, 7, 6, 9, 12, 15, 19, 20.

- A. Mean = 12, Median = 11
- B. Mean = 11.5, Median = 12.38
- C. Mean = 12.38, Median = 11.5
- D. Mean = 12.38, Median = 11.00

**Correct Answer: C**

**Explanation:** Sum = 99. Count = 8. Mean =  $99 / 8 = 12.375$ . Arranged in order: 6, 7, 9, 11, 12, 15, 19, 20. Median =  $(11 + 12) / 2 = 11.5$ .

### Question 25

If the probability of getting Rh+ve is 0.9 and probability of new born being male is 0.5, then the probability of new born being male with Rh+ve is:

- A. 0.95
- B. 0.45
- C. 0.50
- D. 0.25

**Correct Answer: B**

**Explanation:** Assuming independent biological traits,  $P(\text{Male and Rh+ve}) = P(\text{Male}) \times P(\text{Rh+ve}) = 0.5 \times 0.9 = 0.45$ .

### Question 26

Read the following sentences and identify which of them are in the passive form.

- (a) My pocket is picked.
- (b) The snake was killed by the boy.
- (c) He asked him to get out.
- (d) They were asked to keep quiet.

- A. (a), (b) and (d)
- B. (a), (b) and (c)
- C. (a), (c) and (d)
- D. (b), (c) and (d)

**Correct Answer: A**

**Explanation:** Sentences (a), (b), and (d) all use passive voice construction (object/recipient positioned as subject + auxiliary verb 'be' + past participle).

### Question 27

Choose the appropriate question tag:

You heard what I told him, \_\_\_\_\_?

- A. Did you?
- B. Didn't you?
- C. Won't you?
- D. Don't you?

**Correct Answer: B**

**Explanation:** For a positive statement in the simple past tense ("heard"), the correct tag uses the negative auxiliary in the past tense ("didn't you").

### Question 28

Choose the best alternative and complete the sentence.

In my opinion, he seems to enjoy \_\_\_\_\_ to school.

- (i) not going
- (ii) going
- (iii) by going
- (iv) in going

- A. (i) and (ii)
- B. (ii) and (iv)
- C. (iii) and (i)
- D. (iv) and (i)

**Correct Answer: A**

**Explanation:** The verb "enjoy" is directly followed by a gerund. Both "going" and "not going" fit grammatically into this structural form.

### Question 29

The words similar in meaning to the word 'zigzag'.

- (a) Oblique
- (b) Winding
- (c) Straight
- (d) Direct

- A. (a) and (c)
- B. (b) and (c)
- C. (b) and (d)
- D. (a) and (b)

**Correct Answer: D**

**Explanation:** "Winding" and "oblique" align with paths or lines that twist, curve, or deviate from a straight trajectory.

### Question 30

The sentence that is opposite in meaning to the sentence, 'He has been always vindictive'.

- A. He has the mind to forgive.
- B. He was not useful to anyone.
- C. He has been in the habit of praising everyone.
- D. He has never been friendly.

**Correct Answer: A**

**Explanation:** "Vindictive" means having or showing a strong desire for revenge. The exact opposite attribute is being forgiving.

### Question 31

Find the sentences that are grammatically incorrect.

- (i) I asked him not to do that.
- (ii) I asked him don't be doing that.
- (iii) I asked him he won't be doing that.
- (iv) I asked him, should he do that.

- A. (i), (iii), (iv)
- B. (i), (ii), (iii)
- C. (ii), (iii), (iv)
- D. (i), (iv), (ii)

**Correct Answer: C**

**Explanation:** Statement (i) is perfectly correct indirect speech. Statements (ii), (iii), and (iv) violate accurate clausal and modal guidelines for reporting commands/requests.

### Question 32

Choose the correct option which has rectified the error in the following sentence:

The news are that the war will come to an end soon.

- A. The news is that the war will be coming to an end soon
- B. The news is that the war will come to an end soon
- C. The news was that the war will be coming to an end soon
- D. The news were that the war will come to an end soon

**Correct Answer: B**

**Explanation:** "News" is an uncountable singular noun, requiring the singular verb "is". Option B retains the intended future tense without adding unneeded progressive phrasing.

### Question 33

Choose the correct option which has rectified the error in the following sentence:

We will be going to Shimla in the vacation in May.

- A. We will be going to Shimla during the vacation in May
- B. We will be going for Shimla in the vacation in May
- C. We will be going to Shimla by the vacation in May
- D. We will be going to Shimla on the vacation in May

**Correct Answer: A**

**Explanation:** The preposition "during" is the correct choice to indicate the span of time occupied by a vacation.

### Question 35

The meaning of the following idiomatic expression 'under a cloud'.

- A. Experiencing cloudy weather
- B. Enjoying favourable luck
- C. Under suspicion
- D. Under observation

**Correct Answer: C**

**Explanation:** To be "under a cloud" is a well-established idiom meaning to be viewed with suspicion, distrust, or disrepute.

### Question 36

To work on this project is like flogging a dead horse. This idiomatic expression means:

- A. Harping upon a question that has been settled
- B. Dragging something too far
- C. Overspending time
- D. Driving a horse

**Correct Answer: A**

**Explanation:** "Flogging a dead horse" means wasting energy on a lost cause or attempting to revive interest in an issue that has already been entirely settled.

### Question 37

Find the analogy for the following.

Asthma : Lungs :: Conjunctivitis : ?

- A. Blood
- B. Heart
- C. Eyes
- D. Teeth

**Correct Answer: C**

**Explanation:** Asthma is a medical inflammation affecting the lungs; conjunctivitis is an inflammation affecting the eyes.

### Question 39

'The Pilgrims' Progress' was written by:

- A. John Bunyan
- B. John Milton
- C. John Swift
- D. Jonathan Swift

**Correct Answer: A**

**Explanation:** The Pilgrim's Progress is a famous 1678 Christian allegory written by John Bunyan.

### Question 40

Substitute the following phrase with one word, choosing from the given options.

A person who does not believe in God.

- (a) Theist
  - (b) Non-believer
  - (c) Cultist
  - (d) Atheist
- A. (a) and (c) are correct
  - B. (b) and (d) are correct
  - C. (b) and (c) are correct
  - D. (b) and (a) are correct

**Correct Answer: B**

**Explanation:** Both "non-believer" and "atheist" accurately designate a person who does not believe in the existence of a deity.

### Question 41

Which component of the central processing unit is primarily responsible for fetching, decoding and executing instructions?

- A. Arithmetic Logic Unit (ALU)
- B. Control Unit (CU)
- C. Cache Memory
- D. Registers

**Correct Answer: B**

**Explanation:** The Control Unit (CU) directs operations inside the processor by managing instruction fetch, decode, and execution cycles.

### Question 42

Arrange the given events in chronological order.

- (a) Launch of Google
- (b) Creation of WWW
- (c) Introduction of the iPhone
- (d) Launch of Facebook

- A.  $b \rightarrow a \rightarrow d \rightarrow c$
- B.  $a \rightarrow c \rightarrow d \rightarrow b$
- C.  $c \rightarrow b \rightarrow a \rightarrow d$
- D.  $d \rightarrow c \rightarrow b \rightarrow a$

**Correct Answer: A**

**Explanation:** Chronology: World Wide Web created (1989), Google launched (1998), Facebook launched (2004), and iPhone introduced (2007).

### Question 43

Which type of RAM is generally used as the main memory in modern PCs and requires periodic refreshing?

- A. Flash
- B. ROM
- C. DRAM
- D. SRAM

**Correct Answer: C**

**Explanation:** Dynamic RAM (DRAM) stores data using capacitors that lose charge over time, requiring continuous periodic electrical refreshing.

### Question 45

Which type of memory is used to maximize speed in large scientific computers?

- A. Fixed-length memory
- B. Variable-length memory
- C. Cloud storage
- D. Tape drives

**Correct Answer: A**

**Explanation:** Fixed-length words optimize execution pipelines and arithmetic unit speeds for large scientific supercomputing matrices.

### Question 46

Which of the following are the advantages of DBMS?

- (i) Reduced Data Redundancy
- (ii) Improved Data Security
- (iii) Increased Data Inconsistency
- (iv) Backup and Recovery

- A. (i) and (ii)
- B. (i), (ii) and (iii)
- C. (i), (ii) and (iv)
- D. (i) and (iii)

**Correct Answer: C**

**Explanation:** A DBMS reduces data inconsistency rather than increasing it, making item (iii) incorrect.

### Question 47

Which metric is most useful for measuring performance when handling floating-point operations involving very large OR very small numbers that require high precision calculations?

- A. Cache size
- B. FLOPS
- C. Latency
- D. Clock speed (GHz)

**Correct Answer: B**

**Explanation:** FLOPS (Floating-point Operations Per Second) explicitly measures computation speeds for tasks dealing with fractional numbers.

### Question 48

Which of the following programming language uses objects, classes, inheritance and polymorphism?

- A. BASIC
- B. C++
- C. FORTRAN
- D. COBOL

**Correct Answer: B**

**Explanation:** C++ is an Object-Oriented Programming (OOP) language supporting classes, objects, inheritance, and polymorphism.

### Question 50

Which of the following is NOT the layer of the UNIX operating system?

- A. Kernel layer
- B. Shell layer
- C. Utilities layer
- D. BIOS layer

**Correct Answer: D**

**Explanation:** The BIOS layer is part of the system firmware stack rather than an internal software layer of the UNIX operating system itself.

### Question 51

In an operating system, the interval between the time of submission of a job to the system for processing and the time of first response from the system for the job is known as:

- A. Throughput
- B. Response time
- C. Turnaround time
- D. Computing time

**Correct Answer: B**

**Explanation:** Response time is explicitly defined as the span between job submission and the generation of its first responsive output.

### Question 52

Which of the following is NOT a Network operating system?

- A. Android
- B. Unix
- C. Windows Server
- D. Linux

**Correct Answer: A**

**Explanation:** Android is configured fundamentally as a mobile platform operating system, whereas Unix, Linux, and Windows Server are built for network-level administration.

### Question 53

Which of the following operations is NOT typically performed by the Arithmetic Logic Unit?

- A. Logical AND, OR and NOT
- B. Comparison of values
- C. Addition and Subtraction
- D. Data transfer between RAM and storage

**Correct Answer: D**

**Explanation:** Data transfer between main memory and secondary storage systems is coordinated by the Control Unit and I/O controllers, not the ALU.

### Question 54

The seven and eight-bit alphanumeric code that is needed to represent more than characters is called:

- A. Card code
- B. ASCII code
- C. IEEE code
- D. Internal code

**Correct Answer: B**

**Explanation:** ASCII (American Standard Code for Information Interchange) uses 7-bit patterns (and 8-bit extended versions) to represent standard characters.

### Question 55

A group of eight distinct elements can be represented by a \_\_\_\_\_ code.

- A. Three-bit
- B. Two-bit
- C. Four-bit
- D. Eight-bit

**Correct Answer: A**

**Explanation:** A 3-bit binary system provides exactly  $2^3 = 8$  distinct combinations, sufficient to represent 8 separate unique elements.

### Question 56

Consider the following weights in the BCD code.

- (i) 4
- (ii) 8
- (iii) 1
- (iv) 2

Find the correct sequence from left to right.

- A. (iv), (i), (ii), (iii)
- B. (iii), (iv), (i), (ii)
- C. (ii), (i), (iv), (iii)
- D. (i), (ii), (iii), (iv)

**Correct Answer: C**

**Explanation:** Standard BCD follows the 8-4-2-1 positional weighting sequence. This corresponds to the items ordered as (ii), (i), (iv), and (iii).

### Question 57

What is the decimal equivalent of (B65F)<sub>16</sub>?

- A. (46876)<sub>10</sub>
- B. (46687)<sub>10</sub>
- C. (48676)<sub>10</sub>
- D. (47686)<sub>10</sub>

**Correct Answer: B**

**Explanation:** Calculation:  $11 \times 16^3 + 6 \times 16^2 + 5 \times 16^1 + 15 \times 16^0 = 45056 + 1536 + 80 + 15 = 46687$ .

### Question 58

Add the binary numbers 10011 and 1001 in both decimal and binary forms. The values are:

- A. 11100 in binary, 28 in decimal
- B. 00011 in binary, 20 in decimal
- C. 10101 in binary, 18 in decimal
- D. 11101 in binary, 19 in decimal

**Correct Answer: A**

**Explanation:** Binary addition:  $10011 (19) + 1001 (9) = 11100 (28)$ .

### Question 59

Which of the following definition is true for 2's complement subtract operation?

- A. To subtract two numbers X and Y, form the 2's complement of Y and then add it to X.
- B. To subtract two numbers X and Y, form the 2's complement of X and then add it with Y.
- C. To subtract two numbers X and Y, form the 2's complement of Y and then subtract it from X.
- D. To subtract two numbers X and Y, form the 2's complement of X and then subtract Y from it.

**Correct Answer: A**

**Explanation:** Mathematically,  $X - Y$  is evaluated in computer systems by converting the subtraction to addition with the inverted operand:  $X + (-Y)$ .

### Question 60

Consider the following statements:

- (i) Perform addition/subtraction on the mantissas
- (ii) Set the exponent of the result
- (iii) Choose the number with the smaller exponent and shift its mantissa
- (iv) Normalize the result

Find the correct add/subtract rule sequence.

- A. (i), (iii), (ii), (iv)
- B. (iii), (i), (iv), (ii)
- C. (i), (ii), (iv), (iii)
- D. (iii), (ii), (i), (iv)

**Correct Answer: B**

**Explanation:** Floating-point math shifts the smaller value's mantissa first (iii), adds/subtracts mantissas (i), normalizes the output (iv), and confirms final exponent placement (ii).

### Question 61

Which of the following systems are used to represent both positive and negative numbers?

- (a) Sign-and-magnitude
- (b) Sign-9's complement
- (c) 1's complement
- (d) Sign-10's complement

- A. (a) and (c)
- B. (a) and (b)
- C. (b) and (d)
- D. (c) and (d)

**Correct Answer: A**

**Explanation:** Sign-and-magnitude and 1's complement are classic binary configurations enabling the encoding of negative integer boundaries.

### Question 62

Which of the following best suits an operating system?

- A. Resource utilizer
- B. Workstation
- C. Resource allocator
- D. Application program

**Correct Answer: C**

**Explanation:** A fundamental definition of an operating system from a structural viewpoint is that it acts as a primary resource allocator managing memory, CPU time, and devices.

### Question 63

Kernel mode operation is also called as:

- A. Interactive mode
- B. System mode
- C. User mode
- D. Symmetric mode

**Correct Answer: B**

**Explanation:** Operating systems run privileged actions in Kernel mode, universally known alternative names for which include Supervisor or System mode.

### Question 64

Consider the following storage levels and find the correct sequence for the migration of integer A from larger storage to smaller one.

- (i) Hardware Register
- (ii) Main Memory
- (iii) Cache
- (iv) Magnetic Disk

- A. (i), (iii), (ii), (iv)
- B. (iv), (ii), (iii), (i)
- C. (ii), (iv), (i), (iii)
- D. (iii), (i), (iv), (ii)

**Correct Answer: B**

**Explanation:** Ordering storage size scale from absolute largest capacity down to the smallest single storage unit traces: Disk → Main Memory → Cache → CPU Registers.

### Question 65

The correct result of 2's complement addition operation for the following values is:  
0010 (+2) + 0011 (+3)

- A. 0101
- B. 0100
- C. 1100
- D. 1110

**Correct Answer: A**

**Explanation:** Direct binary addition:  $0010 + 0011 = 0101$ , which correctly equals +5 without generating any signs of overflow.

### Question 67

Find the missing term in the given sequence.

1, 5, 5, 10, 4, 15, 13, \_\_\_\_\_

- A. 17
- B. 16
- C. 9
- D. 20

**Correct Answer: D**

**Explanation:** The sequence consists of two interleaved series. Even positions: 5, 10, 15, (20), which increases regularly by +5.

### Question 68

Sangeetha was facing north-west direction. If she was playing carrom with Sudha in the standard seating pattern, in which direction was Sudha facing?

- A. North-West
- B. North-East
- C. South-West
- D. South-East

**Correct Answer: D**

**Explanation:** Carrom players sit directly opposite each other. The direct opposite direction of North-West is South-East.

### Question 69

If X, Y and Z are independent and identically distributed (i.i.d.) random variables, then the mean and variance of X, Y and Z are:

- A. Mean and variance are same for X, Y and Z
- B. Mean and variance are different for X, Y and Z
- C. Mean is same but variance is different for X, Y and Z
- D. Mean is different but variance is same for X, Y and Z

**Correct Answer: A**

**Explanation:** The definition of "identically distributed" ensures all variables share precisely identical probability distributions and identical descriptive parameters.

### Question 70

If a lion has four legs, a monkey has four legs and an elephant has four legs, then how many legs do we have?

- A. 2
- B. 4
- C. 6
- D. 8

**Correct Answer: A**

**Explanation:** The question asks how many legs "we" (humans) have, which is factually 2.

### Question 71

The Nobel Peace Prize for the year 2025 was awarded to country's activist \_\_\_\_\_ for "her struggle to achieve a just and peaceful transition from authoritarian rule to democracy".

- A. Bangladesh, Laila Rahman
- B. Iraq, Nadia Murad
- C. Venezuela, Maria Corina Machado
- D. Belarus, Sviatlana Tsikhanouskaya

**Correct Answer: C**

**Explanation:** Maria Corina Machado from Venezuela was recognized internationally with prominent peace/democracy nominations and distinctions leading into 2024-2025.

### Question 72

Consider the following statements about the Padma Shri Award:

- (i) Padma Shri Award is the highest civilian award in India.
- (ii) It is awarded for distinguished service in various fields.
- (iii) It was instituted in 1954.
- (iv) It cannot be awarded to foreign nationals.

Which of the statements given above is/are correct?

- A. (i) and (iv) only
- B. (ii) and (iii) only
- C. (i) and (iii) only
- D. (i), (ii) and (iii) only

**Correct Answer: B**

**Explanation:** Bharat Ratna is the highest civilian award, not Padma Shri. Additionally, foreign nationals can receive it, making statement (ii) and (iii) the only correct ones.

### Question 73

Which statesman from Karnataka was awarded the Bharat Ratna for his exceptional contributions to public service and administration, economic planning and industrial development, irrigation and water resource management, engineering and nation-building?

- A. S. Nijalingappa
- B. M. Visvesvaraya
- C. Devaraj Urs
- D. Kengal Hanumanthaiah

**Correct Answer: B**

**Explanation:** Sir M. Visvesvaraya was a legendary engineer and statesman from Karnataka who received the Bharat Ratna in 1955.

#### Question 74

Which Indian cricketer was included in the ICC Hall of Fame in 2025?

- A. Virat Kohli
- B. M.S. Dhoni
- C. Rohit Sharma
- D. Ravindra Jadeja

**Correct Answer: Requires Manual Verification**

**Explanation:** As official inductions occur annually, recent selections require verification against the exact official ICC release text for that specific season's cohort.

#### Question 75

The 'Common Carbon Metric' supported by UNEP has been developed for:

- A. Assessing the carbon footprint of building operations around the world
- B. Enabling commercial farming entities around the world to enter carbon trading
- C. Enabling governments to assess the overall carbon footprint caused by their countries
- D. Assessing the overall carbon footprint caused by the use of fossil fuels by the world in a unit time

**Correct Answer: A**

**Explanation:** The Common Carbon Metric is a foundational UNEP standard dedicated specifically to measuring greenhouse gas emissions from ongoing building operations worldwide.

#### Question 76

Which of the following is/are not the methods for Environmental Study?

- (a) TOWS
  - (b) ETOP
  - (c) SWOC
  - (d) MRTP
- A. (a), (b), (c) and (d)
  - B. Only (b)
  - C. (a) and (d)
  - D. Only (d)

**Correct Answer: D**

**Explanation:** TOWS, ETOP, and SWOC are standard environmental audit matrices used in business strategic planning, whereas MRTP is an economic trade practices act.

### Question 79

Consider the following statements and select the correct answer using the codes given below:

- (I) Depreciation of currency improves exports
- (II) Depreciation of currency improves imports
- (III) Appreciation of currency improves exports
- (IV) Appreciation of currency worsens the imports

- A. Only (II) is correct
- B. (I), (II) and (III) are correct
- C. (I), (II) and (IV) are correct
- D. Only (I) is correct

**Correct Answer: D**

**Explanation:** Currency depreciation makes domestic goods cheaper abroad, which acts to boost and improve export competitiveness.

### Question 80

The 'scalar chain' in management refers to:

- A. Chain of customers
- B. Line of authority from top to bottom
- C. Line of responsibility from top to bottom
- D. Distribution channel in marketing

**Correct Answer: B**

**Explanation:** Henri Fayol's principle defines the scalar chain explicitly as the formal uninterrupted line of authority extending from top management down to the lowest ranks.

### Question 82

Which of the statements given below is/are correct?

- (a) Angel investors provide funding at an early stage of a startup
- (b) An IPO allows a company to raise funds from the public
- (c) All startups must go for IPO to survive

- A. (a) and (b)
- B. (b) and (c)
- C. (c) only
- D. (a) and (c)

**Correct Answer: A**

**Explanation:** Startups do not universally require a public offering to survive, as they can exist via private profits or alternative funding mechanisms.

### Question 83

The 'Desert National Park' is located in which of the following places?

- A. Jodhpur and Bikaner
- B. Jaisalmer and Barmer
- C. Jaisalmer and Jodhpur
- D. Barmer and Bikaner

**Correct Answer: B**

**Explanation:** Desert National Park is situated within the Jaisalmer and Barmer districts of western Rajasthan.

### Question 85

Which organization/foundation has instituted and sponsoring the prestigious 'Saraswati Samman' literary award?

- A. K.K. Birla Foundation
- B. Azim Premji Foundation
- C. Sahitya Akademi
- D. Infosys Foundation

**Correct Answer: A**

**Explanation:** The Saraswati Samman was instituted in 1991 by the K.K. Birla Foundation.

### Question 87

Which is the correct sequence of the court/field dimensions of the following games from small court to large court?

- (a) Basketball
  - (b) Football
  - (c) Handball
  - (d) Tennis
  - (e) Badminton
- A. (e), (d), (a), (c), (b)
  - B. (e), (a), (d), (b), (c)
  - C. (d), (c), (a), (b), (e)
  - D. (d), (a), (c), (e), (b)

**Correct Answer: A**

**Explanation:** Comparing standard international areas confirms Badminton as the smallest (13.4 x 6.1m) scaling up directly towards Football pitches which are the largest.

### Question 88

Which is the correct sequence of the process of communication?

- (a) Receiver
  - (b) Encoder
  - (c) Channel
  - (d) Source
- A.** (a), (c), (b), (d)
- B.** (b), (d), (a), (c)
- C.** (c), (a), (b), (d)
- D.** (d), (b), (c), (a)

**Correct Answer: D**

**Explanation:** The fundamental linear sequence of information transfer is: Source → Encoder → Channel → Receiver.

### Question 89

Consider the following statements regarding business reports:

- (a) A good report should be objective and concise.
- (b) Reports should contain verified facts and findings.
- (c) Visual aids like graphs disrupt the flow in reports.
- (d) Business reports should avoid any logical structure.

Which of the statements given above are correct?

- A.** (a), (b) and (c) only
- B.** (c) and (d) only
- C.** (a) and (d) only
- D.** (a) and (b) only

**Correct Answer: D**

**Explanation:** Visual aids support understanding rather than disrupting it, and logical structures are critical for professional reports, leaving statements (a) and (b) as the only valid assertions.

### Question 90

Consider the following statements regarding Indian puppetry.

**Statement I:** 'Kathputli' is a form of shadow puppetry originating from the state of Rajasthan.

**Statement II:** 'Tholpavakoothu' is a traditional glove puppet form practised in Kerala.

- A.** Both Statements I and II are correct
- B.** Statement I is correct; Statement II is incorrect
- C.** Statement I is incorrect; Statement II is correct
- D.** Both Statements I and II are incorrect

**Correct Answer: D**

**Explanation:** Kathputli is a **string** puppet form (not shadow), and Tholpavakoothu is a traditional **shadow** puppet show (not glove), making both assertions incorrect.

### Question 92

The first "Indian Hindu Marriage Act" was enacted after Independence in the year:

- A. 1951
- B. 1952
- C. 1953
- D. 1955

**Correct Answer: D**

**Explanation:** The Hindu Marriage Act was passed as an Act of Parliament in the year 1955.

### Question 93

The Tibetan Buddhist settlement at Bylakuppe is situated in which taluk?

- A. Periyapatna
- B. Chamarajanagar
- C. Srirangapatna
- D. Mandya

**Correct Answer: A**

**Explanation:** Bylakuppe is located in the Periyapatna taluk of the Mysore district in Karnataka.

### Question 95

Who coined the phrase 'Unity in Diversity'?

- A. Mahatma Gandhi
- B. Jawaharlal Nehru
- C. Rabindranath Tagore
- D. Swami Vivekananda

**Correct Answer: B**

**Explanation:** India's first Prime Minister, Jawaharlal Nehru, coined this iconic phrase in his famous book The Discovery of India.

### Question 96

Magna Carta was signed in the year:

- A. 1212
- B. 1217
- C. 1215
- D. 1066

**Correct Answer: C**

**Explanation:** King John signed the historic Magna Carta charter at Runnymede in June 1215.

### Question 100

Arrange the following Indian Satellites according to chronological order of launch.

- A. (ii), (i), (iv), (iii)
- B. (ii), (iii), (i), (iv)
- C. (i), (ii), (iii), (iv)
- D. (ii), (iii), (iv), (i)

**Correct Answer: A**

**Explanation:** Chronology: Aryabhata (1975), INSAT system launch (1982 onwards), GSAT-1 (2001), and EDUSAT / GSAT-3 (2004).

