

GENERAL ENGLISH

(A) Directions (Q.No. 1 to Q.No. 5) : Select the appropriate pair to fill in the blanks in the same order to complete the sentence

1. It appears that in those drought stricken areas hunger had _____ hundreds of persons to mere _____
(A) transformed, shadows (B) reduced, skeletons
(C) changed, spirits (D) turned, ghosts
2. They wanted to _____ all these books, but they could not find _____ time to do so
(A) cover, almost (B) pursue, necessary
(C) buy, some (D) read, sufficient
3. I shall _____ him if he _____ to me for his misconduct.
(A) pardon, commits (B) forgive, apologises
(C) reprimand, commands (D) punish, abuses
4. Success in great ventures calls for _____ Concentration and strong personal _____
(A) hectic, interest (B) unflagging, involvement
(C) continued, apathy (D) standing, participation
5. The admiration Raja Ram Mohan Roy earned was _____ by his _____ concern for the welfare of Indian women
(A) aroused, proverbial (B) belied, prudent
(C) developed, real (D) engendered, sincere

(B) Directions (Q.No. 6 to Q.No. 10) : Complete the following sentences using the appropriate choice

6. The higher you go, the more difficult it _____ to breathe
(A) has become (B) is becoming
(C) becomes (D) became
7. When I saw him through the window _____
(A) I ran out to open the door
(B) I should run to open the door
(C) I am running out open the door
(D) I have run out to open the door

14. PARAMOUR

- (A) Companion (B) Friend
(C) Rival (D) Lover

15. RANCOUR

- (A) Prejudice (B) Enmity
(C) Disappointment (D) Hatred

(D) Directions (Q.No. 16 to Q.No. 20) : In each of the following questions, out of the four alternatives, choose the one which can be substituted for the given words/ sentence

16. That which cannot be done without

- (A) Irrevocable (B) Impracticable
(C) Indispensible (D) Impossible

17. That which makes it difficult to recognize the presence of real nature of somebody or something

- (A) Camouflage (B) Mask
(C) Pretence (D) Cover

18. A person who believes that pleasure is the chief good

- (A) Stoic (B) Hedonist
(C) Epicure (D) Sensual

19. Forcing out (blood, etc.) from its vessel

- (A) Extrapolate (B) Exuberate
(C) Extravasate (D) Extricate

20. One who speaks or understands many languages

- (A) Polyglot (B) Linguist
(C) Grammarian (D) Scholar

(E) Directions (Q.No. 21 to Q.No. 25) : Read the following passage carefully and answer the questions given below it

Recent advances in science and technology have made it possible for geneticists to find out abnormalities in the unborn foetus and take remedial action to rectify some defects which would otherwise prove to be fatal to the child. Though genetic engineering is still at its infancy, scientists can now predict with greater accuracy a genetic disorder. It is not yet an exact science since they are not in a position to predict when exactly a genetic disorder will set in. While they have not yet been able to change the genetic order of the gene in germs, they are optimistic and are *holding out* that in the near future they might be successful in achieving this feat. They have, however, acquired the ability in manipulating tissue cells. However, genetic misinformation can sometimes be damaging for it may adversely affect people psychologically. Genetic information may lead to a tendency to brand some people as inferiors. Genetic information can therefore be abused and its application in deciding the sex of the foetus and its subsequent abortion is now hotly debated on ethical lines. But on this issue geneticists cannot be squarely blamed though this charge has often been leveled at them. It is mainly a societal problem. At present genetic engineering is a costly process of detecting disorders but scientists hope to reduce the costs when technology becomes more advanced. This is why much progress in this area has been possible in scientifically advanced and rich countries. It remains to be seen if in the future this science will lead to the development of a race of superman or will be able to *obliterate* disease from this world.

21. Which of the following is the same in the meaning as the phrase 'holding out' as used in the passage?
- (A) catching (B) expounding
(C) sustaining (D) restraining
22. Which of the following is the same in meaning as the word 'obliterate' as used in the passage?
- (A) wipe off (B) eradicate
(C) give birth to (D) very literate

SEAL

27. (1) The district collector
(P) the next of kin
(Q) would be provided to
(R) announced that financial assistance
(S) of the deceased
(6) from the Chief Minister's Relief fund
- (A) RQPS (B) PSRQ (C) QSPR (D) SQRP
28. (1) The Indians of coming generations
(P) and aware of the continuity of
(Q) will not be unconvincing and self conscious
(R) but will be men, rooted in their own traditions,
(S) copiers of European culture
(6) their own cultural heritage
- (A) QPSR (B) QRPS (C) QSRP (D) SRQP
29. (1) What the country needs
(P) and change tactics
(Q) who would encourage players
(R) are coaches and officials
(S) to read the game as it progresses
(6) accordingly
- (A) QSPR (B) RQSP (C) RQPS (D) SPRQ
30. (1) He said the agitation was launched
(P) after all other attempts
(Q) as a last resort
(R) the demands conceded
(S) to make the authorities implement
(6) nearly a decade ago failed
- (A) QPSR (B) QRSP (C) PSRQ (D) SRPQ

INDIAN CONSTITUTION AND POLITY

31. The constitution of India was adopted by the
- (A) Governor General (B) British parliament
(C) Constituent Assembly (D) Parliament of India
32. Which is not a function of the constitution?
- (A) It acts as a source of power and authority of the government
(B) It minimizes the confusion and conflict between various organs of government
(C) It lays the limits of governmental authority
(D) It strengthens the hands of rulers to rule according to their discretion
33. Which of the following is not a Fundamental Right?
- (A) Right to Equality (B) Right against exploitation
(C) Right to property (D) Right to freedom of religion
34. For raising Half an Hour discussion in a House of parliament, a notice in writing has to be given to the
- (A) Presiding officer of the House
(B) Secretary general of the House
(C) Secretary of department of parliamentary affairs
(D) Minister concerned
35. 'Vote on account' means legislative vote
- (A) in respect of the report of audit and accounts submitted by the Comptroller & Auditor General
(B) on the Appropriation Bill
(C) on the Finance Bill
(D) authorising expenditure in respect of demands for grants pending the passing of the Appropriation Act

42. National Integration Council is headed by
- (A) Prime Minister (B) President
(C) Home Minister (D) Lok Sabha Speaker
43. Who among the following was not a member of the constituent assembly established in July 1946?
- (A) K.M.Munshi (B) J.B.Kripalani
(C) Mahatma Gandhi (D) Abul kalam Azad
44. Which of the following Directive Principles of State policy has not been implemented so far?
- (A) Separation of Judiciary from the executive
(B) Promotion of international peace and security
(C) Organisation of village panchayats
(D) Uniform civil code for the citizens
45. Under the writ of 'Mandamus', the court can
- (A) Ask the person to be produced
(B) Ask to let a person free for a temporary period
(C) Order to transfer the case from one court
(D) Direct the government to do or not to do a thing

HISTORY

46. Which of the following Harappan sites had a dock?
- (A) Harappa (B) Mohenjodaro
(C) Lothal (D) Alamgirpur
47. Which of the following Vedas is rendered musically?
- (A) Rig veda (B) Sama veda
(C) Yajur veda (D) Atharva veda

48. In which of the following languages were the original Buddhists religious texts written?
- (A) Brahmi (B) Sanskrit
(C) Magadhi (D) Pali
49. Chandragupta maurya overthrew the power of Nandas at
- (A) Magadha (B) Taxila
(C) Ujjain (D) Sravana Belgola
50. Hindu colonies were found in the south – east asian countries mostly during the period of
- (A) the Guptas (B) the Mauryas
(C) the Rajputs (D) the Cholas
51. Who built Char Minar?
- (A) Ibrahim Qutb Shah (B) Quli Qutb Shah
(C) Ibrahim Adil Shah II (D) Ali Adil Shah
52. The rock – cut caves at Elephanta belong to the period of
- (A) Chalukyas (B) Rashtrakutas
(C) Satavahanas (D) Vakatakas
53. The words 'Satyameva Jayate' inscribed below the base plate of the emblem of India are taken from
- (A) Mundak Upanishad (B) Ramayana
(C) Rigveda (D) Satpath Brahmana
54. Who among the following is considered to be the father of Ayurveda?
- (A) Dhanvantari (B) Patanjali
(C) Susruta (D) Charaka

55. Of the following, the correct chronological order of the visit of the following travelers is

1. Alberuni

2. Hiuen Tsang

3. Fahien

4. Megasthaenes

(A) 1,2,3,4

(B) 3,2,4,1

(C) 4,3,2,1

(D) 4,2,3,1

56. Which of the following is the oldest Dravidian language?

(A) Kannada

(B) Telugu

(C) Tamil

(D) Malayalam

57. Which Mughal King tried to stop the practice of Sati?

(A) Akbar

(B) Humayun

(C) Shahjehan

(D) Aurangzeb

58. Shankaracharya did not establish 'Math' in

(A) Puri

(B) Amravati

(C) Dwarka

(D) Sringeri

59. Match the following:

Architectural Monuments

Dynasty

A. Khajuraho

1. Vijayanagar rulers

B. Konark Temples

2. Pallavas

C. Mahabalipuram

3. Pratiharas

D. Hampi movement

4. Chandellas

A B C D

A B C D

(A) 4 3 2 1

(B) 4 2 3 1

(C) 3 4 2 1

(D) 3 1 2 4

60. The leader of the Young Bengal movement was
(A) Dwarkanath Tagore (B) Chandrasekar Deb
(C) Ishwar Chandra Vidyasagar (D) Henry Vivian Derozio
61. Who among the following was called the 'Father of Indian Renaissance'?
(A) B.G. Tilak (B) Gopal Krishna Gokhale
(C) Raja Ram Mohan Roy (D) Lala Lajpat Rai
62. The Doctrine of Lapse was introduced by
(A) Lord Wellesly (B) Warren Hastings
(C) Lord Canning (D) Lord Dalhousie
63. The first session of the Indian National Congress was held under the presidentship of
(A) A.O. Hume (B) B. Malabari
(C) W.C. Bannerjee (D) Badruddin Tyabji
64. Who among the following started the Bhoodan Movement?
(A) Mahatma Gandhi (B) Vinoba Bhave
(C) Acharya Kripalani (D) Jayaprakash Narayan
65. 'Ryotwari' was started by
(A) Wellesley (B) Hastings
(C) Munro (D) Dalhousie

MATHEMATICS

66. A man purchased 40 chairs at Rs. 14 each and other 20 chairs at Rs. 18 each. What is the average cost of all chairs?
(A) Rs. 15 (B) Rs. 15.33
(C) Rs. 16.28 (D) Rs. 16.67
67. Find the missing number in the following series
1, 1, 2, 6, 24, —
(A) 90 (B) 120
(C) 84 (D) 64

68. Find the square root of $\sqrt[3]{0.004096}$
- (A) 0.256 (B) 0.16
(C) 0.4 (D) 0.04
69. A and B can do a work in 18 days; B and C in 24 days while C and A in 36 days. How long would they take if they all work together?
- (A) 4 days (B) 8 days
(C) 16 days (D) 32 days
70. The dimensions of a workshop are 16 m \times 15 m \times 12 m. What is the maximum length of the rod which can be placed inside it?
- (A) 25 m (B) 22.5 m
(C) 31 m (D) 28 m
71. Fractions $9/13, 2/3, 8/11, 5/7$ can be arranged in ascending order as
- (A) $9/13, 2/3, 8/11, 5/7$ (B) $2/3, 8/11, 5/7, 9/13$
(C) $5/7, 8/11, 2/3, 9/13$ (D) $2/3, 9/13, 5/7, 8/11$
72. If $a = 5 + 2\sqrt{6}$ then $\sqrt{a} - 1/\sqrt{a}$ is equal to
- (A) $\sqrt{5} + 1$ (B) $\sqrt{5} - 1$
(C) $2\sqrt{3}$ (D) $2\sqrt{2}$
73. The ratio between two numbers is 3 : 5. If each number is decreased by 9 then the ratio between them is 12 : 23. What is the smaller number?
- (A) 27 (B) 33
(C) 49 (D) 55
74. The difference between length and breadth of a rectangle is 23 m. If its perimeter is 206 m, what is its area?
- (A) 1520 Sq.m (B) 2420 Sq.m
(C) 2480 Sq.m (D) 2520 Sq.m

75. Rs. 2,000 amounts to Rs. 2,600 in 5 years at simple interest. Find the rate of interest
- (A) 6% (B) 5%
(C) 4% (D) 8%
76. If the volume of a cylinder of height 56 cm is equal to the volume of the cube of 11 cm side, then find the radius of the base of the cylinder
- (A) 2 cm (B) 2.5 cm
(C) 2.75 cm (D) 3 cm
77. If $\frac{1}{5}$ th of two third of three - fourth of any number is equal to 24, then what is that number?
- (A) 320 (B) 240
(C) 200 (D) 24
78. What is the least number, which when divided by 8, 9, 12 and 15 leaves 1 as remainder each time?
- (A) 361 (B) 300
(C) 260 (D) 200
79. A man has to reach a place, 20 miles away within 3 hours. If he walks some distance on foot at a speed of 4 mile/hour and covers the remaining distance on a vehicle of speed 12 mile/hour and reached the destination within the fixed period, then how much time he took in walking on foot?
- (A) 1 hour (B) 2 hours
(C) 3 hours (D) 4 hours
80. Ram can do a work in 12 days and he completes it with Mohan in 4 days. What share Mohan will get in contract of this work for Rs. 72
- (A) Rs. 46 (B) Rs. 40
(C) Rs. 50 (D) Rs. 48

81. At what rate of compound interest principal Rs. 1,200 will amount to Rs. 1,323 in 2 years?
- (A) 3% (B) 4%
(C) 5% (D) 6%
82. The marked price of an article is Rs. 200, but it is available at Rs. 175, then at which rate discount was given?
- (A) 10% (B) 12.5%
(C) 13% (D) 14%
83. The price of an item is decreased by 20%. What percent increase of price will be required to get the original price?
- (A) 20% (B) 30%
(C) 23% (D) 25%
84. The wages of 5 men for 10 days is Rs. 1,000, then how many men will earn Rs. 1,800 in 9 days?
- (A) 10 men (B) 15 men
(C) 20 men (D) 12 men
85. Find the square root of 13225
- (A) 105 (B) 125
(C) 115 (D) 135

SCIENCE

86. Washing soda is the common name for
- (A) Calcium carbonate (B) Sodium carbonate
(C) Calcium bicarbonate (D) Sodium bicarbonate
87. Heavy water is
- (A) tritium oxide (B) deuterium oxide
(C) rain water (D) water at -4°C

88. Which synthetic fibre is known as artificial silk?
- (A) Cotton (B) Rayon
(C) Terylene (D) Nylon
89. Photosynthesis is
- (A) an exothermic process (B) a neutral process
(C) a thermostatic process (D) an endothermic process
90. The working of the quartz crystal in the watch is based on
- (A) Johnson effect (B) Photoelectric effect
(C) Edison effect (D) Piezo electric effect
91. Clotting of blood vessels is called as
- (A) Thrombosis (B) Rheumatism
(C) Agglutination (D) Fibrosis
92. The amount of light entering the eye is regulated by
- (A) Cornea (B) Pupil
(C) Iris (D) Sclera
93. Yeast is used in making bread because it produces
- (A) CO₂ (B) O₂
(C) Sugar (D) Bacteria
94. Which of the following is not a rabid animal?
- (A) Dog (B) Cat
(C) Deer (D) Fox
95. Natural rubber is a plant product which is chemically known as
- (A) Resin (B) Gum
(C) Mucilage (D) Latex

96. Which vitamin is provided by sunlight to the body?
- (A) Vitamin A (B) Vitamin B
(C) Vitamin D (D) Vitamin K
97. Epilepsy is disease of the
- (A) Skin (B) Nervous system
(C) Heart (D) Respiratory system
98. Mixed cropping is usual when
- (A) Crops with varying maturity periods are sown together
(B) Crops with same maturity periods are sown together
(C) Different soils are used for the same crop
(D) Crops with different nutritional requirements are grown
99. Which of the following fuels cause minimum environmental pollution?
- (A) Hydrogen (B) Coal
(C) Diesel (D) Kerosene
100. Raman effect is associated with characteristics of
- (A) Heat (B) Light
(C) Electricity (D) Magnetism
101. Cryogenics is a science dealing with
- (A) High temperatures (B) Low temperatures
(C) Friction and wear (D) Growth of crystals
102. The speed of light will be minimum while passing through
- (A) Glass (B) Air
(C) Water (D) Vacuum

103. In summer, a cloudy night is hotter than a starlit night because
- (A) Clouds work as a thick blanket and produce heat
 - (B) Clouds do not allow cold air to reach earth
 - (C) Heat is generated by clouds and radiated back to earth
 - (D) Clouds prevent the heat radiated by the earth from escaping to the sky

104. The main constituents of biogas are

- (A) ethylene and carbon dioxide
- (B) butane and carbon monoxide
- (C) methane and carbon dioxide
- (D) methane and carbon monoxide

105. Which of the following is not a cereal?

- (A) Musary
- (B) Rice
- (C) Barley
- (D) Maize

CURRENT AFFAIRS

106. The fastest man on the earth

- (A) Tyson Gay
- (B) Usain bolt
- (C) Schumaker
- (D) Asafa Powell

107. The Unique identification Authority of India is headed by

- (A) C.P. Joshi
- (B) Manmohan Singh
- (C) Montek Singh
- (D) Nandan Nilikeni

108. The Indira Gandhi Prize for peace disarmament and development for 2009 was given to

- (A) Khalida Zia
- (B) Nelson Mandela
- (C) Benazir Bhutto
- (D) Sheikh Hasina

109. The topmost test team as per ICC rankings as on January 2010 is
- (A) Australia (B) South Africa
(C) India (D) Srilanka
110. India and the 10 – country south – east Asian block ASEAN signed a free trade agreement recently. Which among the following was not embraced in this agreement?
- (A) Information technology (B) Farm products
(C) Textile and Jute products (D) None of these
111. Union Human Resource Development Minister Kapil Sibal, on September 7, 2009, announced that there will be no class X board examinations from the year
- (A) 2010 (B) 2011
(C) 2012 (D) 2013
112. The Union Cabinet, in September 2009, approved the setting up of nine new National Institutes of Technology (NITs), taking their number to _____ across the country
- (A) 21 (B) 33
(C) 29 (D) 45
113. Operation Smile, a worldwide children's medical charity, in September 2009, presented the Universal Smile Award to Tarun Gogoi in Newyork for making _____ the first cleft – free state in India
- (A) Meghalaya (B) Assam
(C) Manipur (D) Orissa
114. Shah Mehmood Qureshi is the Foreign Minister of
- (A) Afghanistan (B) Iran
(C) Iraq (D) Pakistan
115. Who is the Vice – President of China?
- (A) Xi Jinping (B) Mao Xi
(C) Chiang Xing (D) Hen Ping

122. Who won USA Open tennis men's single champion (2009)?
- (A) Roger Federer (B) Rafael Nadal
(C) Juan Martin Del Potro (D) None of these
123. Yuki Bhambri is related to
- (A) Tennis (B) Badminton
(C) Table Tennis (D) Chess
124. Bharati Airtel and MTN Deal or not deal is related to
- (A) South Korea (B) Brazil
(C) South Africa (D) China
125. The fast food chain McDonald's, in September 2009, lost a legal battle to prevent a local _____ Indian restaurant McCurry from using the 'Mc' trademark in its name
- (A) Malaysia (B) Australian
(C) Japanese (D) Chinese
126. Consider the following statements regarding National Solar Mission
- I. It aims to exceed the energy production from coal by 2030
II. The Mission has an ambitious target of 20000 MW solar power by the year 2020
III. The Mission has a three - phase approach 1-1.5 GW by 2012, 6-7 GW by 2017 and 20 GW by 2020
- Which of the above statements are true?
- (A) Only I (B) Only II
(C) Only II and III (D) Only I and II
127. Which of the following countries will host 2016 Olympics?
- (A) USA (B) Brazil
(C) Japan (D) Spain

128. For how many categories has A.R. Rehman, the Golden Globe Award Winner for original sound track in the film "Slum Dog Millionaire" been nominated at the Oscars?
- (A) 2 (B) 3
(C) 4 (D) 9
129. Who has been appointed the Governor of RBI after the retirement of Shri Y.V. Reddy?
- (A) Dr. Indira Rangarajan (B) Dr. Dilip Sanghvi
(C) Dr. Vijay L. Kelkar (D) D. Subba Rao
130. The biggest producer of Fish in the world is
- (A) China (B) Russia
(C) Japan (D) Norway

COMPUTERS

131. Which is/are the language of Fourth generation of Computer?
- (A) COBOL 681 (B) ADA, Pascal, C
(C) PL/1, COBOL 68 and FORTRAN IV (D) C++
132. Temporary memory of a computer is
- (A) Read Only Memory
(B) Random Access Memory
(C) LAN
(D) UBM
133. VDU stands for
- (A) Value Dot Unit (B) Vat Display Unit
(C) Video Display Unit (D) None of these

134. TFT stands for

- (A) Thin Film Transistor
- (B) Tax Full Total
- (C) Tube Full Thin
- (D) Tele - Fail Thin

135. Control Bus is

- (A) Special Interest Group
- (B) An electronic path
- (C) POST
- (D) LAN

136. LUN stands for

- (A) Large Unit Network
- (B) Lan Unit Note
- (C) Lan Under Network
- (D) Logical Unit Number

137. Application Software is / are

- (A) Word processing
- (B) Graphics and Browsers
- (C) Spreadsheet
- (D) All of these

138. System Software is / are

- (A) Word Processing
- (B) Browsers
- (C) Programming language
- (D) Graphics

REASONING

139. The positions of the first and the eighth letters in word WORKINGS are interchanged. Similarly the positions of the second and the seventh letters are interchanged and the positions of the third letter and the sixth letter are interchanged and the positions of the remaining two letters are changed with each other, which of the following will be the third letter to the left of R after the rearrangement?

- (A) G
- (B) S
- (C) I
- (D) N

Directions : (Q.No. 140 and Q.No. 141)

In each of the questions below are given three statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

140. Statements :

All benches are trees

All trees are flowers

All flowers are fruits

Conclusions :

I. All fruits are benches

II. All trees are fruits

III. Some fruits are flowers

IV. Some flowers are benches

(A) All follow

(B) Only II, III and IV follow

(C) Only III and IV follow

(D) None of these

141. Statements :

Some buses are rivers

All rivers are mountains

Some roads are mountains

Conclusions :

I. Some mountains are buses

II. Some roads are buses

III. Some roads are rivers

IV. Some mountains are roads

(A) None follows

(B) Only I and II follow

(C) Only III and IV follow

(D) Only I and IV follow

142. If in a certain code, 'O' is written as 'E', 'A' as 'C', 'M' as 'T', 'S' as 'O', 'N' as 'P', 'E' as 'M', 'T' as 'A', 'P' as 'N' and 'C' as 'S', then how will 'COMPANIES' be written in that code?

- (A) SELACPAMO (B) SMINCPAMO
(C) SEINCPAMO (D) SEINCPMIO

143. In a certain code language 'MOTHERS' is written 'OMVGGPU'. How is 'BROUGHT' written in that code language?

- (A) DPQTIFV (B) CPRTIEV
(C) DPQSIFV (D) DPRTIDV

144. What should come next in the following number series?

9 8 7 6 5 4 3 2 1 8 7 6 5 4 3 2 1 7 6 5 4 3 2 1

- (A) 9 (B) 8
(C) 7 (D) 6

Directions : (Q.No. 145 and Q.No. 146)

Study the following arrangement carefully and answer the questions given below.

E 4 B % R 3 A 6 # F H @ I 2 D

9 © K U \$ W 1 M P 5 ★ Q 8 T

145. Which of the following is the fifth to the right of the eighteenth from the right end of the above arrangement?

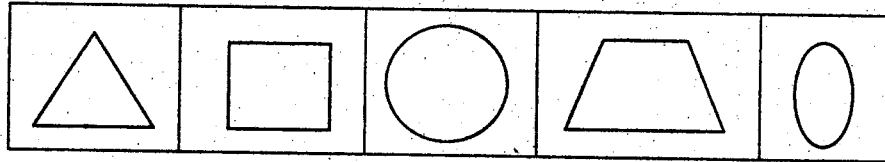
- (A) © (B) I
(C) A (D) M

146. Which of the following is the fourth to the right of the twelfth from the left end of the above arrangement?

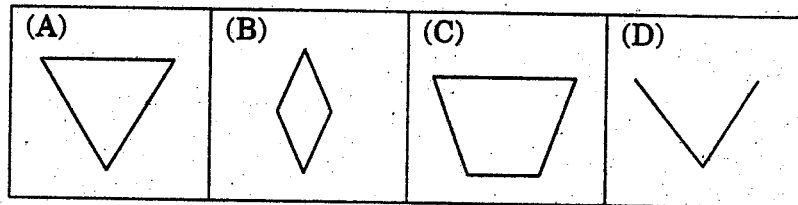
- (A) 2 (B) D
(C) 9 (D) M

Directions : (Q.No. 147) In the question given below which one of the four answer figures should the problem figure left, if the sequence were continued?

147. Problem figure



Answer figures



Directions : (Q.No. 148 to Q.No. 150)

What will come in place of the question mark (?) in the following questions?

148. $75\% \text{ of } 480 + ? \% \text{ of } 540 = 603$

(A) 35

(B) 65

(C) 45

(D) 55

149. $3.36 \times 2.5 + (2.4)^2 = ?$

(A) 14.016

(B) 14.16

(C) 15.26

(D) 15.16

150. $60\% \text{ of } 480 + 48\% \text{ of } 600 = ?$

(A) 766

(B) 288

(C) 276

(D) 576