

Year of Advt: 2023

Date of Exam: 22-May-2024

Booklet Serial No. 18033

DO NOT BREAK THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

SERIES : I

QUESTION BOOKLET

Subjects : General English, General Knowledge & Aptitude and Arithmetic

Full Marks : 300

Time Allowed : 2½ Hours

Read the following instructions carefully before you begin to answer the questions.

INSTRUCTIONS TO CANDIDATES

1. This Booklet contains 150 questions to be answered in a separate OMR Answer Sheet using Black Ballpoint Pen in the following four Parts :

Part—A : General English : 50 questions

Part—B : General Knowledge : 50 questions

&

Aptitude : 25 questions

Part—C : Arithmetic : 25 questions

2. All questions are compulsory.

3. You will be supplied the Answer Sheet separately by the Invigilator. You must complete the details of particulars asked for.

4. Answer must be shown by completely blackening the corresponding circle in the Answer Sheet against the relevant question number by Black Ballpoint Pen. OMR Answer Sheet without marking Series shall not be evaluated.

Example :

Suppose the following question is asked :

The Capital of Meghalaya is

- (A) Guwahati
- (B) Kohima
- (C) Shillong
- (D) Delhi

You will have four alternatives in the Answer Sheet for your response corresponding to each question of the Question Booklet as below :

(A) (B) (C) (D)

In the above illustration, if your chosen response is alternative (C), i.e., Shillong, then the same should be marked on the Answer Sheet by blackening the relevant circle with a Black Ballpoint Pen only as below :

(A) (B) ● (D)

The example shown above is the only correct method of answering.

5. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any one question.

6. There will NOT be any negative marking for wrong answers.

7. The Answer Sheet must be handed over to the Invigilator before you leave the Examination Hall.

8. No Rough Work is to be done on the Answer Sheet. Space for Rough Work has been provided in the Question Booklet.

SEAL

PART—A : GENERAL ENGLISH

(Marks : 100)

Each question carries 2 marks

Directions : In question nos. 1-10, out of the four alternatives given, choose the one which best expresses the meaning of the given idiom :

1. To break new ground
 - (A) To do whatever is necessary
 - (B) To do nothing
 - (C) To do something that has been done before
 - (D) To do something that has never been done before
2. To hit the sack
 - (A) To go to sleep
 - (B) To go to church
 - (C) To go shopping
 - (D) To go to a park
3. Like a cakewalk
 - (A) A difficult task
 - (B) An easy task
 - (C) A slippery situation
 - (D) An honourable position
4. To bell the cat
 - (A) To be an animal lover
 - (B) To have a serious talk
 - (C) To face a risk
 - (D) To run away
5. Ring a bell
 - (A) an indication of time
 - (B) an indication of religion
 - (C) something which sounds unfamiliar
 - (D) something which sounds familiar
6. To turn tail
 - (A) To run away
 - (B) To stay in one's place
 - (C) To face a problem
 - (D) To receive some happy news
7. In a pickle
 - (A) In an easy situation
 - (B) In a difficult situation
 - (C) To eat a good meal
 - (D) To travel abroad
8. A wild goose chase
 - (A) To accuse someone
 - (B) To run after someone
 - (C) A useless effort
 - (D) A useful effort
9. A left-handed compliment
 - (A) A left-handed person
 - (B) To shake hands
 - (C) A sincere compliment
 - (D) Doubtful sincerity
10. To laugh in one's sleeves
 - (A) To laugh loudly
 - (B) To handle the situation expertly
 - (C) To make fun openly
 - (D) To make fun secretly

Directions : In question nos. 11-20, out of the four alternatives given, choose the one which best expresses the similar meaning of the given word :

11. BINDING

- (A) exhort
- (B) elective
- (C) optional
- (D) obligatory

12. ABRIDGE

- (A) shorten
- (B) lengthen
- (C) unlimited
- (D) across

13. BARGAIN

- (A) pay
- (B) deal
- (C) sell
- (D) buy

14. VIGILANT

- (A) inspect
- (B) unwary
- (C) alert
- (D) careless

15. UTILITY

- (A) specific
- (B) usefulness
- (C) uselessness
- (D) serviceability

16. CHARACTER

- (A) charm
- (B) career
- (C) disrepute
- (D) reputation

17. NOTORIOUS

- (A) honourable
- (B) infamous
- (C) famous
- (D) reputable

18. OBLIGATORY

- (A) consent
- (B) desire
- (C) necessary
- (D) voluntary

19. EXERTION

- (A) extortion
- (B) laziness
- (C) smartness
- (D) strain

20. TYPICAL

- (A) indicative
- (B) singular
- (C) peculiar
- (D) dependent

Directions : In question nos 21–30, out of the four alternatives given, choose the one which best expresses the opposite meaning of the given word :

21. GLOOMY

- (A) dejected
- (B) rejected
- (C) cheerful
- (D) brilliance

22. RETAIN

- (A) maintain
- (B) hold
- (C) relinquish
- (D) shrink

23. STEADY

- (A) constant
- (B) stable
- (C) gentle
- (D) wavering

24. GRIM

- (A) gentle
- (B) horrible
- (C) gusty
- (D) amiable

25. HAZARD

- (A) assurance
- (B) accident
- (C) jeopardy
- (D) frail

26. IMITATE

- (A) follow
- (B) modify
- (C) copy
- (D) impersonate

27. GRAVE

- (A) sober
- (B) serious
- (C) cruel
- (D) trivial

28. JESTING

- (A) seriousness
- (B) joking
- (C) pun
- (D) laughter

29. INTENSIFY

- (A) aggravate
- (B) tolerate
- (C) lessen
- (D) worsen

30. LIFT

- (A) exalt
- (B) elevate
- (C) overlook
- (D) lower

Directions : In question nos. 31–35, some of the sentences have errors and some have none. Find out which part of a sentence has an error A, B or C. Mark D if the sentence has no error.

31. You shall / have to talk to me /
A B
first before leaving / No error
C D

32. There are to many / complications, /
A B
the doctor told to him / No error
C D

33. One must / be careful /
A B
with one's speaking / No error
C D

34. A too long / sentence must /
A B
be avoided / No error
C D

35. Reading in / the passage carefully /
A B
is important / No error
C D

Directions : In question nos. 36–40, fill in the blanks with the correct answer out of the four alternatives given for the following sentences :

36. Mary's father could ____ her pain.

- (A) knew
- (B) known
- (C) felt
- (D) feel

37. It was raining day ____ and day out last week.

- (A) in
- (B) on
- (C) up
- (D) of

38. The manager ____ an explanation from Harry.

- (A) seek
- (B) demanded
- (C) demand
- (D) want

39. Mr. Samrat is the ____ architect in India.

- (A) usual
- (B) overall
- (C) best
- (D) good

40. Raj has ____ not to be absent from school anymore.

- (A) explained
- (B) told
- (C) accept
- (D) promised

Directions : In question 41-50, out of the four alternatives given, choose the one which best expresses the meaning of the given word :

41. FASTIDIOUS

- (A) A person who is concerned with himself only
- (B) A person who is very untidy
- (C) A person who is concerned about details and accuracy
- (D) A person who is fussy

42. CARTOGRAPHER

- (A) A person who draws maps
- (B) A person who collects stamps
- (C) A person who drives a cart
- (D) A person who draws portraits

43. DESTITUTE

- (A) People who are extremely rich
- (B) People who are extremely poor
- (C) People who are extremely generous
- (D) People who are extremely miserly

44. GREGARIOUS

- (A) A person who is shy and timid
- (B) A person who is very confident
- (C) A person who is unsociable
- (D) A person who is sociable

45. MUNDANE

- (A) Ordinary and dull
- (B) Extraordinary and bright
- (C) Small and petite
- (D) Rich and famous

46. AEON

- (A) Limited to a few months
- (B) Limited to a few years
- (C) Indefinite period of time
- (D) Definite period of time

47. PATRICIDE

- (A) The murder of one's wife
- (B) The murder of one's children
- (C) The murder of one's mother
- (D) The murder of one's father

48. GEOLOGY

- (A) The science of earth's crust
- (B) The science of earth's plants
- (C) The study of plants
- (D) The study of stars

49. INTANGIBLE

- (A) Something that is stuck
- (B) Something that is hard
- (C) Something that cannot be touched
- (D) Something that can be touched

50. GERMICIDE

- (A) A medicine which is used for preserving the body
- (B) A medicine which kills germs
- (C) A medicine which cures all diseases
- (D) A medicine which is poisonous and dangerous

PART—B : GENERAL KNOWLEDGE

(Marks : 100)

Each question carries **2** marks

- 51.** Which of the following periodicals is **not** correctly matched with its editor?
- (A) Bande Mataram : Aurobindo Ghose
(B) New India : Annie Besant
(C) Jugantar : Bhupendranath Dutta
(D) Sandhya : Barindra Ghosh
- 52.** Mission Indradhanush—a programme introduced recently in the country by the Central Government is related to
- (A) systematic immunization of children against disease
(B) providing insurance cover to farmers against crop failure
(C) development of fisheries in rural areas
(D) development of multiple cropping in hilly region
- 53.** A wide inlet of the sea usually concave in shape is termed as
- (A) strait
(B) sound
(C) bay
(D) fjord
- 54.** Epigraphy is the study of which of the following?
- (A) Coins
(B) Inscriptions
(C) Temples
(D) Birds
- 55.** In which field is the B. C. Roy Award given?
- (A) Music
(B) Journalism
(C) Medicine
(D) Environment
- 56.** Why is carbon monoxide a pollutant?
- (A) It reacts with haemoglobin
(B) It makes nervous system inactive
(C) It reacts with oxygen
(D) It inhibits glycolysis

57. Which State hosted the 12th International Film Festival on Art and Artist, 2018?
- (A) Assam
(B) Kerala
(C) Odisha
(D) Manipur
58. The 70th edition of Army Day 2018 has been celebrated on which date in India?
- (A) January 16
(B) January 14
(C) January 15
(D) January 13
59. The Central Institute of Indian Languages (CIIL) is located in which State?
- (A) West Bengal
(B) Karnataka
(C) Uttar Pradesh
(D) Punjab
60. Which of the following is responsible for the fact that tennis ball bounces higher at high altitudes than in plains?
- (A) Low gravity
(B) High gravity
(C) Less dense air
(D) Low atmospheric temperature
61. Which of the following is a correct set of two official languages of the United Nations?
- (A) Hindi and Chinese
(B) Arabic and Chinese
(C) Japanese and Chinese
(D) Hindi and French
62. Tabo Monastery is located in which of the following States?
- (A) Arunachal Pradesh
(B) Himachal Pradesh
(C) Jammu and Kashmir
(D) Sikkim
63. The famous speech delivered by Jawaharlal Nehru during the moments of transfer of power in 1947, is known as
- (A) *I Have a Dream*
(B) *A Tryst with Destiny*
(C) *History Will Absolve Me*
(D) None of the above
64. The most powerful upper house of the legislature in the world is the
- (A) American Senate
(B) House of Lords in Britain
(C) Rajya Sabha in India
(D) Duma in Russia

65. Who among the following got the Nobel Prize and Oscar?
- (A) Walt Disney
 - (B) Winston Churchill
 - (C) George Bernard Shaw
 - (D) Bertrand Russell
66. Where was the first session of the Indian National Congress held?
- (A) Bombay
 - (B) Delhi
 - (C) Calcutta
 - (D) Chennai
67. Which is the biggest enterprise of the Government of India?
- (A) Postal and Telegraph
 - (B) Banking
 - (C) Shipping
 - (D) Railways
68. What is the currency of Turkey?
- (A) Peso
 - (B) Taka
 - (C) Lira
 - (D) Ringgit
69. Which among the following is **not** a greenhouse gas?
- (A) CO_2
 - (B) CH_4
 - (C) Chlorofluorocarbons
 - (D) N_2O
70. At which of the following places is the famous Kailasa Temple located?
- (A) Ajanta
 - (B) Badami
 - (C) Chittor
 - (D) Ellora
71. The first ruler of the Pala dynasty was
- (A) Gopala
 - (B) Dharmapala
 - (C) Bhaskaravarman
 - (D) None of them
72. Indian Standard Time is the local time of
- (A) Chennai
 - (B) Allahabad
 - (C) Calcutta
 - (D) Delhi

73. Which type of forests occupies the highest percentage of area in India?

- (A) Tropical deciduous
- (B) Savanna and desert vegetation
- (C) Equatorial evergreen
- (D) Tropical rainforests

74. Black soils are best suited for the cultivation of

- (A) cotton
- (B) rice
- (C) cereals
- (D) sugarcane

75. DDT was invented by

- (A) Paul Muller
- (B) Rudolf
- (C) Karl Benz
- (D) Dalton

76. The term 'Googly' is associated with

- (A) Cricket
- (B) Football
- (C) Badminton
- (D) Hockey

77. The headquarters of the International Olympic Committee is in

- (A) Los Angeles
- (B) New York
- (C) Moscow
- (D) Lausanne (Switzerland)

78. The Indus Valley houses were built of

- (A) bamboos
- (B) wood
- (C) bricks
- (D) stone

79. The first to start a joint stock company to trade with India were the

- (A) French
- (B) Dutch
- (C) Portuguese
- (D) Danish

80. The term of a State Governor is for

- (A) 3 years
- (B) 4 years
- (C) 5 years
- (D) 6 years

81. Who among the following was **never** the Lok Sabha Speaker?

- (A) G. S. Dhillon
- (B) Hukum Singh
- (C) K. V. K. Sundaram
- (D) Bali Ram Bhagat

82. When is the World AIDS Day observed all over the world?

- (A) 1st October
- (B) 1st December
- (C) 12th December
- (D) 12th November

83. Swami Vivekananda's birthday is observed in India as

- (A) World Religious Day
- (B) National Youth Day
- (C) All Saints' Day
- (D) Hindu Renaissance Day

84. What is the botanical name of paddy?

- (A) *Solanum nigrum*
- (B) *Eleusine coracana*
- (C) *Oryza sativa*
- (D) None of the above

85. Which disease is caused by the fungi?

- (A) Polio
- (B) Malaria
- (C) Dermatitis
- (D) Cholera

86. Retina contains the sensitive cells called

- (A) rods and cones
- (B) cones and cortex
- (C) rods and pelvis
- (D) cortex and fovea

87. Birds excrete nitrogenous waste in the form of

- (A) urea
- (B) ammonia
- (C) fatty acids
- (D) uric acid

88. Apart from India, in which of the following two countries, Tamil is an official language?

- (A) Mauritius and Malaysia
- (B) Malaysia and Indonesia
- (C) Sri Lanka and Mauritius
- (D) Sri Lanka and Singapore

89. Which among the following temples of India is known as the Black Pagoda?

- (A) The Sun Temple, Konark
- (B) The Brihadeeswara Temple, Tanjore
- (C) The Lord Jagannath Temple, Puri
- (D) The Meenakshi Temple, Madurai

90. Which bank was earlier called the 'Imperial Bank of India'?

- (A) RBI
- (B) SBI
- (C) UBI
- (D) PNB

91. When did the Government of India set up the Export Import Bank of India?

- (A) January, 1982
- (B) January, 1993
- (C) March, 1971
- (D) June, 1969

92. Fiscal policy is related with which of the following?

- (A) Public revenue and expenditure
- (B) Education for all
- (C) Import and export
- (D) None of the above

93. Which of the following is **not** a part of India's money market?
- (A) Banks
 - (B) Bill markets
 - (C) Call money market
 - (D) Indian gold council
94. Stethoscope was invented by
- (A) Bessemer
 - (B) Rene Laënnec
 - (C) Henri Becquerel
 - (D) None of them
95. Telegraphic code was introduced by
- (A) Lipman
 - (B) Macmillan
 - (C) Thomas Moore
 - (D) Samuel Morse
96. UNIVAC is an example of
- (A) first generation computer
 - (B) second generation computer
 - (C) third generation computer
 - (D) fourth generation computer
97. What is the full form of IP?
- (A) Interface Program
 - (B) Interface Protocol
 - (C) Internet Program
 - (D) Internet Protocol
98. In which year, UNESCO added the Nokrek National Park to its list of Biosphere Reserves?
- (A) 1999
 - (B) 2003
 - (C) 2005
 - (D) 2009
99. Which one is the largest district of Meghalaya?
- (A) West Khasi Hills
 - (B) East Garo Hills
 - (C) East Khasi Hills
 - (D) Jaintia Hills
100. The total number of members in the Meghalaya Legislative Assembly is
- (A) 36
 - (B) 40
 - (C) 47
 - (D) 60

APTITUDE

(Marks : 50)

Each question carries 2 marks

101. Odometer is to mileage as compass is to

- (A) speed
- (B) hiking
- (C) needle
- (D) direction

102. Secretly is to openly as silently is to

- (A) scarcely
- (B) impolitely
- (C) noisily
- (D) quietly

103. Vincent has a paper route. Each morning, he delivers 37 newspapers to customers in his neighbourhood. It takes Vincent 50 minutes to deliver all the papers. If Vincent is sick or has other plans, his friend Thomas, who lives on the same street, will sometimes deliver the papers for him. This paragraph best supports the statement that

- (A) Vincent and Thomas live in the same neighbourhood
- (B) It takes Thomas more than 50 minutes to deliver the papers
- (C) It is dark outside when Vincent begins his deliveries
- (D) Thomas would like to have his own paper route

104. Erin is twelve-years old. For three-years, she has been asking her parents for a dog. Her parents have told her that they believe a dog would not be happy in an apartment, but they have given her permission to have a bird. Erin has not yet decided what kind of bird she would like to have. This paragraph best supports the statement that

- (A) Erin's parents like birds better than they like dogs
- (B) Erin does not like birds
- (C) Erin and her parents live in an apartment
- (D) Erin and her parents would like to move

105. Tim's commute never bothered him because there were always seats available on the train and he was able to spend his 40 minutes comfortably reading the newspaper or catching up on paper work. Ever since the train schedule changed, the train has been extremely crowded, and by the time the doors open at his station, there isn't a seat to be found. This paragraph best supports the statement that

- (A) Tim would be better off taking the bus to work
- (B) Tim's commute is less comfortable since the train schedule change
- (C) Many commuters will complain about the new train schedule
- (D) Tim will likely look for a new job closer to home

Read the below passage carefully and answer the questions (106-108) :

The Government of an island nation is in the process of deciding how to spend its limited income. It has \$7 million left in its budget and eight programs to choose among. There is no provision in the constitution to have a surplus, and each program has requested the minimum amount they need; in other words, no program may be partially funded. The programs and their funding requests are :

- * Hurricane preparedness : \$2.5 million
- * Harbor improvements : \$1 million
- * School music program : \$0.5 million
- * Senate office building remodelling :
\$1.5 million
- * Agricultural subsidy program : \$2 million
- * National radio : \$0.5 million
- * Small business loan program : \$3 million
- * International airport : \$4 million

106. Senators from urban areas are very concerned about assuring that there will be funding for a new international airport. Senators from rural areas refuse to fund anything until money for agricultural subsidies is appropriated. If the legislature funds these two programs, on which of the following could they spend the rest of the money?

- (A) The school music program and national radio
- (B) Hurricane preparedness
- (C) Harbor improvements and the school music program
- (D) Small business loan program

107. If the legislature decides to fund the agricultural subsidy program, national radio and the small business loan program, what two other programs could they fund?

- (A) Harbor improvements and international airport
- (B) Harbor improvements and school music program
- (C) Hurricane preparedness and school music program
- (D) Hurricane preparedness and international airport

108. If the legislature decides to fund the agricultural subsidy program, national radio and the small business loan program, the only other single program that can be funded is

- (A) hurricane preparedness
- (B) harbor improvements
- (C) school music program
- (D) senate office building remodelling

109. One New York publisher has estimated that 50,000 to 60,000 people in the United States want an anthology that includes the complete works of William Shakespeare. And what accounts for this renewed interest in Shakespeare? As scholars point out, his psychological insights into both male and female characters are amazing even today. This paragraph best supports the statement that

- (A) Shakespeare's characters are more interesting than fictional characters today
- (B) people even today are interested in Shakespeare's work because of the characters
- (C) academic scholars are putting together an anthology of Shakespeare's work
- (D) New Yorkers have a renewed interest in the work of Shakespeare

110. Generation Xers are those people born roughly between 1965 and 1981. As employees, Generation Xers tend to be more challenged when they can carry out tasks independently. This makes Generation Xers the most entrepreneurial generation in history. This paragraph best supports the statement that Generation Xers

- (A) work harder than people from other generations
- (B) have a tendency to be self-directed workers
- (C) have an interest in making history
- (D) tend to work in jobs that require risk-taking behaviour

111. If you're a fitness walker, there is no need for a commute to a health club. Your neighbourhood can be your health club. You don't need a lot of fancy equipment to get a good workout either. All you need is a well-designed pair of athletic shoes. This paragraph best supports the statement that

- (A) fitness walking is a better form of exercise than weight lifting
- (B) a membership in a health club is a poor investment
- (C) walking outdoors provides a better workout than walking indoors
- (D) fitness walking is a convenient and valuable form of exercise

112. The length of the bridge, which a train 130 metres long and travelling at 45 km/hr can cross in 30 seconds, is

- (A) 200 m
- (B) 225 m
- (C) 245 m
- (D) 250 m

Each of the questions given below consists of a question followed by three statements. You have to study the question and the statements and decide which of the statements are necessary to answer the question (113 and 114).

113. What is the speed of the train?

- I. The train crosses a signal pole in 18 seconds.
- II. The train crosses a platform of equal length in 36 seconds.
- III. Length of the train is 330 metres.

- (A) I and II only
- (B) II and III only
- (C) I and III only
- (D) III and either I or II only

114. What is the speed of the train?

- I. The train crosses a tree in 13 seconds.
- II. The train crosses a platform of length 250 metres in 27 seconds,
- III. The train crosses another train running in the same direction in 32 seconds.

- (A) I and II only
- (B) II and III only
- (C) I and III only
- (D) Any two of the three

115. A sum of money at simple interest amounts to ₹ 815 in 3 years and to ₹ 854 in 4 years. The sum is

- (A) ₹ 650
- (B) ₹ 690
- (C) ₹ 698
- (D) ₹ 700

116. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is

- (A) 15
- (B) 16
- (C) 18
- (D) 25

117. In a certain store, the profit is 320% of the cost price. If the cost price increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit?

- (A) 30%
- (B) 70%
- (C) 100%
- (D) 250%

118. A trader mixes 26 kg of rice at ₹ 20 per kg with 30 kg of rice of other variety at ₹ 36 per kg and sells the mixture at ₹ 30 per kg. His profit percent is

- (A) No profit, no loss
- (B) 5%
- (C) 8%
- (D) 10%

Find the odd one out (119–122) :

119. 2, 5, 10, 17, 26, 37, 50, 64

- (A) 50
- (B) 26
- (C) 37
- (D) 64

120. 10, 14, 16, 18, 21, 24, 26

- (A) 26
- (B) 24
- (C) 21
- (D) 18

121. 16, 25, 36, 72, 144, 196, 225

- (A) 36
- (B) 72
- (C) 196
- (D) 225

122. 331, 482, 551, 263, 383, 362, 284

- (A) 263
- (B) 383
- (C) 331
- (D) 551

123. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?

- (A) 4 years
- (B) 8 years
- (C) 10 years
- (D) None of the above

124. Present ages of Sameer and Anand are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively. What is Anand's present age in year?

- (A) 24
- (B) 27
- (C) 40
- (D) Cannot be determined

125. A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of his son is

- (A) 14 years
- (B) 18 years
- (C) 20 years
- (D) 22 years

PART—C : ARITHMETIC

(Marks : 50)

Each question carries **2** marks

- 126.** The value of
$$\frac{0.1 \times 0.1 + 0.2 \times 0.2}{0.2 \times 0.2 + 0.4 \times 0.4}$$
 is
- (A) 0.25
(B) 0.025
(C) 0.625
(D) 0.5
- 127.** If one-third of a bucket holds 4 litres of water, then the quantity of water that half of the bucket holds is
- (A) 12 litres
(B) 8 litres
(C) 6 litres
(D) 5 litres
- 128.** If 20% of x is 160, then 45% of x is
- (A) 360
(B) 320
(C) 135
(D) 450
- 129.** The square root of 66049 is
- (A) 347
(B) 257
(C) 253
(D) 203
- 130.** If the arithmetic mean of the numbers 4, 6, 9, 11 and x is 7, then the value of x is
- (A) 15
(B) 12
(C) 8
(D) 5
- 131.** The sum of two numbers is 31 and their product is 184. The two numbers are
- (A) 18 and 13
(B) 23 and 8
(C) 26 and 5
(D) 14 and 17
- 132.** Two numbers are in the ratio 7:15 and their sum is 66. The numbers are
- (A) 36 and 30
(B) 14 and 42
(C) 21 and 45
(D) 28 and 38
- 133.** If $3^{n-1} = 729$, then the value of n is
- (A) 5
(B) 6
(C) 7
(D) 11

134. A father was 3 times as old as his son 6-years ago. If the present age of the father is 54 years, then the present age of the son is
- (A) 22 years
(B) 23 years
(C) 24 years
(D) 25 years
135. An item was sold for ₹ 30 with a profit of 20%. If it were sold for ₹ 32, then the profit percentage is
- (A) 25%
(B) 26%
(C) 27%
(D) 28%
136. A and B together can do a piece of work in 8 days. If A alone can complete the same work in 24 days, then B alone can complete the work in
- (A) 10 days
(B) 12 days
(C) 16 days
(D) 24 days
137. A man can travel two-fifth of a distance in 1 hour. He can travel the full distance in
- (A) 1.7 hours
(B) 2 hours
(C) 2.2 hours
(D) 2.5 hours
138. The simple interest on ₹ 54,000 at $15\frac{1}{3}\%$ per annum for 9 months is
- (A) ₹ 6210
(B) ₹ 6500
(C) ₹ 7230
(D) ₹ 8000
139. The value of $\frac{5^9}{3125}$ is
- (A) 5^6
(B) 5^4
(C) 5^{-5}
(D) 5^{-4}
140. A train is moving from station A to station B at a speed of 120 km/hr. If the distance between A and B is 100 km, then it will reach B in
- (A) 90 minutes
(B) 75 minutes
(C) 50 minutes
(D) 20 minutes
141. If $\log_9 x = 3$, then x is equal to
- (A) 27
(B) 81
(C) 243
(D) 729

142. A rectangular room of length 7 metres and breadth 5 metres needs to be carpeted. If the cost of carpeting is ₹ 135 per square metre, then the total cost of carpeting the room is

- (A) ₹ 4175
- (B) ₹ 4725
- (C) ₹ 3275
- (D) ₹ 3825

143. A square has an area of 81 cm^2 . If each side is increased by 2 cm, then its new area is

- (A) 121 cm^2
- (B) 120 cm^2
- (C) 85 cm^2
- (D) 83 cm^2

144. The largest from the numbers

$$\frac{1}{3}, \frac{3}{5}, \frac{4}{7} \text{ and } \frac{5}{9}$$

is

- (A) $\frac{1}{3}$
- (B) $\frac{3}{5}$
- (C) $\frac{4}{7}$
- (D) $\frac{5}{9}$

145. If the perimeter of a circle is 34π , then its area is

- (A) 289π
- (B) 68π
- (C) 17π
- (D) $34\pi^2$

146. If the sum and difference of two numbers are 20 and 8 respectively, then the difference of their squares is

- (A) 18
- (B) 28
- (C) 160
- (D) 180

147. Two numbers are in the ratio of 13 : 5. If their HCF is 9, then the numbers are

- (A) 39 and 15
- (B) 65 and 25
- (C) 91 and 35
- (D) 117 and 45

148. The value of $6.\overline{46}$ in fractional form is

- (A) $\frac{646}{99}$
- (B) $\frac{646}{100}$
- (C) $\frac{64640}{1000}$
- (D) $\frac{640}{99}$

149. If $\frac{p}{q} = 7$, then the value of $\frac{p+q}{p-q}$ is

- (A) $\frac{1}{3}$
- (B) $\frac{2}{3}$
- (C) $\frac{4}{3}$
- (D) $\frac{3}{4}$

150. $\frac{1}{3} + \frac{3}{4} \left(\frac{2}{3} - \frac{1}{4} \right)$ is equal to

- (A) $\frac{31}{48}$
- (B) $\frac{31}{12}$
- (C) $\frac{19}{48}$
- (D) $\frac{19}{12}$