

DO NOT BREAK THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO**SERIES : I****QUESTION BOOKLET****Subjects : General English, General Knowledge and Mathematics****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 three Parts :

Part—A	: General English	: 50 questions
Part—B	: General Knowledge	: 50 questions
Part—C	: Mathematics	: 50 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) (C) (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.

PART—A : GENERAL ENGLISH

(Marks : 100)

Each question carries 2 marks

Directions (Q. Nos. 1 and 2) :

In the following questions, a word is given in capital letters followed by four alternative words. Select from the alternatives the word nearest in meaning to the word given in capital letters.

1. LEVERAGING

- (A) Weakening
- (B) Destroying
- (C) Gearing
- (D) Demonstrating

2. OBVIOUS

- (A) Vague
- (B) Various
- (C) Flexible
- (D) Evident

Directions (Q. Nos. 3 and 4) :

In the following questions, a word is given in capital letters followed by four alternative words, one of which is the antonym of the given word. Find the word.

3. HEDGING

- (A) Minimizing
- (B) Maximizing
- (C) Climbing
- (D) Sidelining

4. CAUTIOUS

- (A) Discreet
- (B) Negligent
- (C) Prudent
- (D) Alert

Directions (Q. Nos. 5-9) :

The following groups of words can be replaced with one word from the options given below them. Choose the correct word and mark as your answer.

5. A wrong or inaccurate use of a name or term

- (A) Misunderstanding
- (B) Misjudge
- (C) Misinterpret
- (D) Misnomer

6. A person in charge of a museum

- (A) Orator
- (B) Administrator
- (C) Curator
- (D) Operator

7. A life story of a person written by self

- (A) Bibliography
- (B) Autobiography
- (C) Biography
- (D) Lithography

8. Persons living at the same time

- (A) Contemporaries
- (B) Compatriots
- (C) Colleagues
- (D) Cosmopolitans

9. A government by the military class

- (A) Kratocracy
- (B) Pantisocracy
- (C) Stratocracy
- (D) Mobocracy

Directions (Q. Nos. 10–15) :

Each of the following sentences is divided into four parts. Any of the parts may contain an error. Select the part that has an error. Select option (D), if you find no error in the sentence. Ignore punctuation errors, if any.

10. I will now deal with her / in a manner different from / the one I have adapted so far. /
(A) (B) (C)
No error
(D)

11. Vaani, seated in the visitors' gallery, / glanced at her watch for the /
(A) (B)
fifth time in the past ten minutes. / No error
(C) (D)

12. The boy who will score / the maximum points, / will carry the trophy. / No error
(A) (B) (C) (D)

13. The organization preferred to / hire locale population as /
(A) (B)
they understood the language and customer preferences. / No error
(C) (D)

14. No matter what Ashoka did in his earlier /
(A)
years, in the ending he proved to be uncommonly / virtuous and wise. / No error
(B) (C) (D)

15. He built the theatre as a tribute to his rootings / and the thought of it outlasting him, /
(A) (B)
would surely have given him the greatest joy. / No error
(C) (D)

16. Which of the following spellings is correct?

- (A) Fahrenhiet
- (B) Fahrenheit
- (C) Farenheit
- (D) Farenhiet

17. Select the wrongly spelt word.

- (A) Remonstrate
- (B) Rendezvous
- (C) Remuneration
- (D) Rennassaince

Directions (Q. Nos. 18–23) :

In the following questions, each sentence has an underlined part that can be improved by replacing the part with one among the four options given below. Choose the correct option and if you think no improvement can be made, then select (D) as your answer.

18. The main point of her speech was well-understood.

- (A) that she spoke
- (B) made when she spoke
- (C) made by her speech
- (D) No improvement

19. Potatoes are dead cheap these days.

- (A) deady cheap
- (B) dirt cheap
- (C) dust cheap
- (D) No improvement

20. It is time the 2-year-old is learning how to walk and run.

- (A) has learned
- (B) learnt
- (C) was learning
- (D) No improvement

21. Is there any place for her to sit?

- (A) space
- (B) room
- (C) area
- (D) No improvement

22. If you come across my book anywhere, bring it to me, can you?

- (A) don't you?
- (B) will you?
- (C) isn't it?
- (D) No improvement

23. Many employees are hesitate to volunteer for assignments in a foreign country because of language and cultural issues.

- (A) hesitant to volunteer
- (B) hesitated to volunteer
- (C) hesitatingly volunteer
- (D) No improvement

Directions (Q. Nos. 24 and 25) :

The following sentences have a certain phrase highlighted in bold. Choose the correct phrase from the options given below to replace the highlighted phrase and make it grammatically correct. Ignore punctuation errors, if any.

24. You remark about finances **reach the bull's-eye**.

- (A) instigate the bull's-eye
- (B) ignore the bull's-eye
- (C) approach the bull's-eye
- (D) hit the bull's-eye

25. His views on female foeticide are effectively **a paper test** of his views on women's rights.

- (A) an equality test
- (B) an eraser test
- (C) a litmus test
- (D) a gender test

Directions (Q. Nos. 26–30) :

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

The entry of foreign media has to be 26 by strict rules. Any intension to 27 the country politically or economically or any attempt at cultural 28 in order to make the country a slave to the designs of international powers would not be 29. If the foreign media is keen on making a presence on the Indian soil, respect for the country's unity and 30 is essential.

26. (A) governed
(B) rejected
(C) dejected
(D) retained
27. (A) grapple
(B) cripple
(C) scruple
(D) stripple
28. (A) absenteeism
(B) clonism
(C) imperialism
(D) dogmatism
29. (A) abated
(B) confiscated
(C) assimilated
(D) tolerated

30. (A) accountability
(B) responsibility
(C) integrity
(D) vulnerability

Directions (Q. Nos. 31–35) :

The questions below consist of a set of labelled sentences. These sentences, when properly sequenced, form a coherent paragraph. Select the most logical order of sentences from among the options.

31. P : We may see alcohol and tobacco advertisements everywhere, on television, in newspaper, on street ads card, etc.

Q : But we know the truth is alcohol and cigarette are harmful for people's health and sometimes it may bring bad effects to self-impression.

R : Alcohol ads usually create several feints to tell people that alcohol is good for people and induce people to drink.

S : On the other hand, the malign influence of advertisements shows smoking as something 'cool'.

- (A) PRSQ
(B) PSQR
(C) QRSP
(D) RSPQ

32. P : If the intention is just to consume whatever comes from the West, then it is harmful.

Q : Some of its effects are really helping and positive as it increases initiative and entrepreneurship qualities provided taken in that spirit.

R : At the same time the State's strategic intervention is essential because more than 40% of people live below poverty line.

S : The impact of economic reforms are mixed.

(A) SRQP

(B) SQPR

(C) RQPS

(D) QPSR

33. P : No partner is expected to air the views of a particular group in public.

Q : The only requirement is that the coalition partners have to stick to a code of conduct.

R : Every coalition party has to own the responsibility for all government policies or actions.

S : Experience has now shown that a coalition government can run as smoothly as any single-party government.

(A) QRPS

(B) RQPS

(C) SQRP

(D) PQSR

34. P : Superstitions mean an irrational belief in or notion of the ominous significance of a particular thing, circumstance, or the like.

Q : This is a universal phenomenon cutting across caste, communal and even national boundaries.

R : All over the globe, people have superstitions, although the superstitions may vary from country to country or from region to region.

S : Nor does education drive away superstitions completely.

(A) PQRS

(B) SQRP

(C) QRPS

(D) RPSQ

35. P : Then the liberalization process became inevitable.

Q : It encourages initiative, entrepreneurship and competition which is very vital for growth of the economy.

R : In due course of time our institutions became stagnant, corrupt and inefficient due to permit raj and centralized control.

S : Liberalization enhances economic activities.

(A) PQSR

(B) RPSQ

(C) QPRS

(D) RSQP

Directions (Q. Nos. 36–40) :

In the following questions, a sentence has been given in direct speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in indirect speech.

36. The old man said to me, "Life has taught me some hard lessons."

- (A) The old man tells me that life has taught him some hard lessons.
- (B) The old man told me this that life has had taught him some hard lessons.
- (C) The old man tells me that life is teaching him some hard lessons.
- (D) The old man told me that life had taught him some hard lessons.

37. The groom said to the bride, "I will take good care of you."

- (A) The groom promised the bride that he would take good care of her.
- (B) The groom has promised the bride that he will be taking good care of her.
- (C) The groom had promised the bride that he would have taken good care of her.
- (D) The groom promises the bride that he would take good care of her.

38. I said to my father, "I want to build a raft which can hold four people."

- (A) I told my father that I am wanting to build a raft which could hold four people.
- (B) I told my father that that I wanted to build a raft which could hold four people.

(C) I told my father that that I am wanting to build a raft which could hold four people.

(D) I told my father that I wanted to build a raft which could hold four people.

39. Aunt said to mother, "I will be in Surat on Friday."

- (A) Aunt told mother that she will be in Surat on Friday.
- (B) Aunt told mother she would be in Surat on Friday.
- (C) Aunt told mother she will be in Surat on Friday.
- (D) Aunt told mother that she would be in Surat on Friday.

40. My brother said, "I can climb this hill in less than an hour."

- (A) My brother claimed that he can climb that hill in less than an hour.
- (B) My brother claimed that he could climb this hill in less than an hour.
- (C) My brother claimed that he can climb this hill in less than an hour.
- (D) My brother claimed that he could climb that hill in less than an hour.

Directions (Q. Nos. 41-45) :

Read the passage carefully and select the best answer to each question out of the given four alternatives.

One should consciously engage in activities that will nourish your soul. Just as we nourish the body, we need to nurture the soul to connect to the creative power of the universe and to manifest joy in our lives. Often, we forget to address the soul, lost as we are in a jungle of material and sensual pleasures. But the more you embrace what feeds your soul, the happier you become. So if you want to enjoy the abundance of life, engage in what enriches your soul. Nurturing the soul is all about finding calm amidst chaos. There are a number of practices that empower people towards this end including silent contemplation, various forms of meditation, yoga and tai chi. However, the rigor and discipline involved in the pursuit of such practices often seem to discourage people. Add to this, the temptations of the material world that leave little time and motivation for anyone to pursue the spiritual path. Poet Walt Whitman declared : "Whatever satisfies the soul is truth." The good news is that simple, everyday activities can also nutrify the soul—like spending time in the midst of nature, dancing in the rain or just putting thoughts on paper. Do whatever is calming and pleases you. Creative pursuits are particularly appealing as inside each one of us, there is an artist craving for release and awaiting an opportunity for expression. One of the ways to indulge the artist within is to get started with the practice of any one or more of the creative art forms such as music, singing, dancing, acting, drawing, painting, sculpting, poetry, fiction or essay writing.

When you engage in such soul nourishing activities, all thought and energy get focused toward goal accomplishment. At this point, you will find that even unknown forces of the universe are conniving to assist you in your amateurish but sincere attempts. As you progress, you are motivated to do better. You touch and access a faculty, a part of you that you never knew existed. Your inner artist is unleashed, baring the beauty of your soul that has found a fond medium of expression. For instance, a sculptor's soul is seen in his artwork; a musician's in his compositions; an actor's in his acting, a painter's in his paintings and so on. It is immaterial whether your effort is an immaculate artwork or just a clumsy attempt by a layperson. The idea is to try, be inspired and to create giving free rein to the mind. As Michelangelo remarked : "I saw the angel in the marble and carved until I set him free!"

41. According to the passage, what makes us really happy?
- (A) A soulful music
 - (B) A soulful sculptures art
 - (C) Freeing our mind
 - (D) Embracing what feeds our soul
42. According to the passage, why even our amateurish attempts motivate us?
- (A) Because even unknown forces of the universe are assisting us in them
 - (B) Because we never knew that this part ever existed inside us
 - (C) Because these amateur attempts of ours are insincere ones
 - (D) Because they still are clumsy and need improvement

43. What activities can nutrify soul?

- (A) Creative activities that needs your involvement
- (B) Any activity that doesn't touch the soul
- (C) Peaceful and calming activities
- (D) Immaculate artwork

44. What can you infer from Michelangelo's statement—"I saw the angel in the marble and carved until I set him free!"?

- (A) Michelangelo's soul probably wanted to free the angel and hence his artwork portrayed the same
- (B) Michelangelo didn't like the angel and hence wanted to do away with it
- (C) Michelangelo wanted his artwork to look as close to real as possible
- (D) Michelangelo's mind felt free after setting the angel free in his artwork

45. Why do creative pursuits appeal to us?

- (A) They nutrify our souls
- (B) Inside each one of us, is an artist craving to come out
- (C) They identify beauty of our body
- (D) They are not simple activities

Directions (Q. Nos. 46-50) :

In the following questions, each sentence is given with a blank. Select the correct form of verb out of the given four alternatives to fill in the blank.

46. He always _____ to prove that the Earth revolves around the Sun.

- (A) tried
- (B) tries
- (C) was trying
- (D) is trying

47. Someone _____ away my bike within an hour.

- (A) takes
- (B) took
- (C) has taken
- (D) had taken

48. There are no taxis available because taxi drivers _____ on strike.

- (A) went
- (B) go
- (C) have gone
- (D) will go

49. The train _____ before we reach the station.

- (A) will have departed
- (B) has departed
- (C) is departing
- (D) was departing

50. Columbus _____ America.

- (A) discovers
- (B) discovered
- (C) has discovered
- (D) had discovered

PART—B : GENERAL KNOWLEDGE

(Marks : 100)

Each question carries 2 marks

51. The Indian National Congress was formed in the year
(A) 1885
(B) 1947
(C) 1950
(D) 1952
52. The World Environment Day is celebrated every year on
(A) 5th of April
(B) 10th of May
(C) 5th of June
(D) 15th of November
53. Which of the following has the sole right of issuing currency (except one rupee coins and notes)?
(A) The State Bank of India
(B) The Finance Commission
(C) The Government of India
(D) The Reserve Bank of India
54. Choose the correct antonym for Conspicuous.
(A) Noticeable
(B) Discreet
(C) Wide
(D) Narrow
55. Which of the following processes is involved in the desalination of sea-water?
(A) Osmosis
(B) Reverse osmosis
(C) Dialysis
(D) Electro-osmosis
56. The Constituent Assembly of India was set up in
(A) 1944
(B) 1946
(C) 1949
(D) 1952
57. Which of the following is the largest living bird?
(A) Peacock
(B) Ostrich
(C) Kiwi
(D) Eagle
58. Who among the following coined the term 'Geography'?
(A) Galileo
(B) Herodotus
(C) Eratosthenes
(D) Aristotle

59. Article 21A of the Indian Constitution, a fundamental right for persons below 14 years, provides for
- (A) freedom of speech
 - (B) free and compulsory education
 - (C) equality before law
 - (D) abolition of titles
60. Renewable resources which are inexhaustive include
- (A) biomass
 - (B) coal
 - (C) kerosene
 - (D) petroleum
61. The term 'Intelligence Quotient' (IQ) was first introduced by
- (A) Alfred Binet
 - (B) William Stern
 - (C) Tolman
 - (D) Durkheim
62. Per capita income is obtained by dividing national income by
- (A) area of the country
 - (B) volume of capital used
 - (C) total working population
 - (D) total population of the country
63. The size of an image is always smaller than an object in a
- (A) convex mirror
 - (B) concave mirror
 - (C) silver mirror
 - (D) plane mirror
64. The 73rd Constitutional Amendment is related to
- (A) High Courts
 - (B) Centre-State relations
 - (C) Concurrent list
 - (D) Panchayati Raj
65. The process of transfer of genetic information is
- (A) transversion
 - (B) transcription
 - (C) translation
 - (D) translocation
66. Who founded the Mughal Empire?
- (A) Babur
 - (B) Akbar
 - (C) Shah Jahan
 - (D) Aurangzeb

67. Excessive accumulation of nutrients in a water body is called
 (A) bioaccumulation
 (B) eutrophication
 (C) biomagnification
 (D) salinity problem
68. The full form of USB in computer device is
 (A) Universal Security Block
 (B) Universal Superior Byte
 (C) Universal Standard Bar
 (D) Universal Serial Bus
69. In a Unitary form of Government, the sovereign authority rests with
 (A) the foreign government
 (B) the local government
 (C) the national government
 (D) the national and local governments
70. Who is known as the 'Father of White Revolution'?
 (A) V. Kurien
 (B) M. S. Swaminathan
 (C) J. P. Narayan
 (D) Baba Amte
71. A landform which is raised and has a flat surface is classified as
 (A) hill
 (B) plateau
 (C) plain
 (D) valley
72. The United Nations Conference on Environment and Development, popularly known as the Earth Summit 1992, was held at
 (A) New Delhi
 (B) Geneva
 (C) Rio de Janeiro
 (D) Nairobi
73. A joint sitting of the Lok Sabha and the Rajya Sabha can be held to
 (A) elect the President
 (B) elect the Prime Minister
 (C) adopt a Constitution amending bill
 (D) consider and pass a bill on which both Houses disagree
74. The major greenhouse gas responsible for global warming is
 (A) CH_4
 (B) CO_2
 (C) NO_2
 (D) SO_2
75. Which of the following blood cells are compulsory for blood coagulation?
 (A) Platelets
 (B) Lymphocytes
 (C) Red blood corpuscles
 (D) White blood corpuscles
76. The symbol of the Reserve Bank of India is
 (A) Iron Pillar
 (B) Ashoka Pillar
 (C) Bengal Tiger
 (D) Taj Mahal

77. In Philosophy, induction is the process from

- (A) general to particular
- (B) general to general
- (C) particular to general
- (D) particular to particular

78. The term 'Ecology' was coined by

- (A) Ernst Haeckel
- (B) Arthur Tansley
- (C) Ramdeo Misra
- (D) Charles Darwin

79. Who administers the oath of office to the Governor?

- (A) The President
- (B) The Chief Minister
- (C) The Chief Justice of the Supreme Court
- (D) The Chief Justice of the concerned State High Court

80. Choose the correct antonym for Diligent.

- (A) Conscientious
- (B) Responsible
- (C) Irresponsible
- (D) Impractical

81. The 'Four Noble Truths' express the basic orientation of

- (A) Jainism
- (B) Hinduism
- (C) Sikhism
- (D) Buddhism

82. In Geography, which of the following can be termed as a physical feature?

- (A) Port
- (B) Plain
- (C) Road
- (D) Airport

83. Inflation is caused by

- (A) increase in supply of goods
- (B) decrease in money supply
- (C) increase in money supply
- (D) increase in cash with the Government

84. In computer networking, the full form of *https* is

- (A) HomeText Transport Protocol Secure
- (B) HyperText Transport Program Secure
- (C) HomeText Transport Protocol Search
- (D) HyperText Transfer Protocol Secure

85. An unorganized mass of cells is called
- (A) totipotent
 - (B) explant
 - (C) callus
 - (D) corax
86. Which of the following is **not** an essential feature of a Federal System?
- (A) Parliamentary form of Government
 - (B) Dual Government
 - (C) Written Constitution
 - (D) Distribution of Powers
87. The concept of 'Sanskritization' was introduced by
- (A) Durkheim
 - (B) Narayana Guru
 - (C) M. N. Srinivas
 - (D) Alfred Binet
88. Dehydration in human body is caused due to the loss of
- (A) vitamins
 - (B) hormones
 - (C) salts
 - (D) water
89. Which of the following is **not** an organ of the United Nations?
- (A) Security Council
 - (B) International Court of Justice
 - (C) World Health Organization
 - (D) Trusteeship Council
90. Logic is
- (A) a normative science
 - (B) a positive science
 - (C) a negative science
 - (D) a practical science
91. Bank rate is the rate at which
- (A) a bank lends to the public
 - (B) the Reserve Bank of India lends to the public
 - (C) the Government of India lends to other countries
 - (D) the Reserve Bank of India gives credit to commercial banks
92. The Supreme Court of India was established on
- (A) 1st October, 1937
 - (B) 15th August, 1947
 - (C) 26th November, 1949
 - (D) 26th January, 1950

93. Who was responsible for the Partition of Bengal in 1905?
- (A) Lord Curzon
 - (B) Robert Clive
 - (C) Lord Dalhousie
 - (D) M. K. Gandhi
94. Which imaginary line passes through the centre of India?
- (A) Equator
 - (B) Tropic of Capricorn
 - (C) Tropic of Cancer
 - (D) Prime Meridian
95. The International Union for Conservation of Nature and Natural Resources (IUCN) publishes the Red Data Book which includes the list of
- (A) endangered species
 - (B) extinct species
 - (C) vulnerable species
 - (D) rare species
96. Transfer of pollen grains from one flower to the stigma of another flower of the same plant is
- (A) autogamy
 - (B) allogamy
 - (C) xenogamy
 - (D) geitonogamy
97. Who is called the Father of Economics?
- (A) Adam Smith
 - (B) Joel Dean
 - (C) P. Samuelson
 - (D) None of them
98. The General Election held during April-May, 2019 in India constituted
- (A) 16th Lok Sabha
 - (B) 18th Lok Sabha
 - (C) 17th Lok Sabha
 - (D) 19th Lok Sabha
99. India participated in Olympic Hockey first time in
- (A) 1918
 - (B) 1928
 - (C) 1936
 - (D) 1948
100. Which of the following is an abiotic component of the earth?
- (A) Animal
 - (B) Plant
 - (C) Water
 - (D) Bacterium

PART—C : MATHEMATICS

(Marks : 100)

Each question carries 2 marks

101. The value of

$$\frac{(2 \cdot 3)^3 - 0.027}{(2 \cdot 3)^2 + 0.069 + 0.09}$$

is equal to

- (A) 2
- (B) 2.372
- (C) 3
- (D) 2.273

102. $\sqrt[4]{3 \sqrt{2^2}}$ equals to

- (A) $2^{-\frac{1}{6}}$
- (B) 2^{-6}
- (C) $2^{\frac{1}{6}}$
- (D) 2^6

103. If a, b, c are positive real numbers, then

$$\sqrt[5]{3125a^{10}b^5c^{10}}$$

is equal to

- (A) $5a^2bc^2$
- (B) $5a^3bc^3$
- (C) $25ab^2c$
- (D) $125a^2bc^2$

104. If the HCF of 65 and 117 is expressible in the form $65m - 117$, then the value of m is

- (A) 3
- (B) 2
- (C) 1
- (D) 0

105. The second of the two numbers is 11 less than five times the first. If three times the first plus the second equals 53, then what is the first number?

- (A) 29
- (B) 6
- (C) 8
- (D) 10

106. If the perimeter of a circle is 66 m which is $\frac{3}{4}$ th of actual perimeter of the circle, then the area of the circle is

- (A) 616 m^2
- (B) 512 m^2
- (C) 343 m^2
- (D) 589 m^2

107. The ratio of incomes of two persons is 9 : 7 and the ratio of their expenditures is 4 : 3. If each manages to save ₹ 2,000 per month, then the income of first person is

- (A) ₹ 15,000
- (B) ₹ 14,000
- (C) ₹ 20,000
- (D) ₹ 18,000

108. A student has obtained 33% of the total marks to pass. He got 125 marks and failed by 40 marks. The maximum marks is

- (A) 300
- (B) 500
- (C) 800
- (D) 1000

109. The sum of the squares of two consecutive natural numbers is 421. The larger number is
 (A) 10
 (B) 14
 (C) 15
 (D) 17
110. An article when sold at a gain of 5% yields ₹ 15 more than when sold at a loss of 5%. Its cost price would be
 (A) ₹ 150
 (B) ₹ 200
 (C) ₹ 250
 (D) ₹ 300
111. The largest fraction among $\frac{51}{57}$, $\frac{23}{26}$, $\frac{31}{35}$, $\frac{89}{101}$ is
 (A) $\frac{51}{57}$
 (B) $\frac{23}{26}$
 (C) $\frac{31}{35}$
 (D) $\frac{89}{101}$
112. A man sold his bicycle for ₹ 405 losing one-tenth of its cost price. Its cost price is
 (A) ₹ 500
 (B) ₹ 450
 (C) ₹ 550
 (D) ₹ 420
113. The mean of 5 numbers is 18. If one number is excluded, the mean of the remaining numbers becomes 16. The excluded number is
 (A) 10
 (B) 16
 (C) 26
 (D) 24
114. A road which is 7 m wide surrounds a circular park whose circumference is 352 m. The area of the road is
 (A) 2618 cm^2
 (B) 2926 cm^2
 (C) 1925 cm^2
 (D) 2168 cm^2
115. If the radius of a sphere becomes three times, then its volume will be
 (A) 3 times
 (B) 6 times
 (C) 9 times
 (D) 27 times
116. At what percent per annum will ₹ 6,000 amount to ₹ 6,615 in 2 years when interest is compounded annually?
 (A) 2.5%
 (B) 5%
 (C) 4%
 (D) 3%
117. A fort has a provision for 450 soldiers for 40 days. After 10 days, 90 more soldiers come to the fort. The remaining provision will last at the same rate is
 (A) 25 days
 (B) 20 days
 (C) 30 days
 (D) 23 days

118. If 12 men or 18 women can complete a piece of work in 7 days, then 4 men and 8 women will complete the same work in
- (A) 10 days
(B) 9 days
(C) 8 days
(D) 13 days
119. How many $\frac{1}{10}$ are in $\frac{6}{5}$?
- (A) 8
(B) 5
(C) 12
(D) 10
120. What percentage of 80 is 32?
- (A) 24%
(B) 32%
(C) 40%
(D) 45%
121. The volumes of two spheres are in the ratio 64 : 27. The ratio of their surface areas is
- (A) 3 : 4
(B) 4 : 3
(C) 9 : 16
(D) 16 : 9
122. A train covers 95 km in $1\frac{1}{4}$ hours. Assuming that the speed of the train remains uniform, find the time required to cover a distance of 266 km.
- (A) 2 hours 20 minutes
(B) 3 hours 30 minutes
(C) 4 hours 40 minutes
(D) 3 hours 20 minutes
123. The speed of a boat when travelling downstream is 32 km/hr, whereas when travelling upstream it is 28 km/hr. What is the speed of the boat in still water?
- (A) 27 km/hr
(B) 29 km/hr
(C) 30 km/hr
(D) 31 km/hr
124. A car travels 432 km on 48 litres of petrol. How far would it travel on 20 litres of petrol?
- (A) 150 km
(B) 160 km
(C) 170 km
(D) 180 km
125. If 3 is added to the first of two numbers, their ratio becomes 1 : 2, while the ratio becomes 1 : 3 when 1 is subtracted from the second number. The numbers are
- (A) 4, 10
(B) 3, 12
(C) 2, 8
(D) 5, 16
126. If one-third of one-fourth of a number is 15, then three-tenths of that number is
- (A) 35
(B) 36
(C) 45
(D) 54

- 127.** The product of two numbers is 120 and the sum of their squares is 289. The sum of the numbers is
- (A) 21
(B) 22
(C) 23
(D) 24
- 128.** A sum of money is to be distributed among A, B, C and D in the proportion of 5:2:4:3. If C gets ₹ 1,000 more than D, then what is B's share?
- (A) ₹ 500
(B) ₹ 1,000
(C) ₹ 1,500
(D) ₹ 2,000
- 129.** At what rate of compound interest per annum will a sum of ₹ 1,200 become ₹ 1,348.32 in 2 years?
- (A) 6%
(B) 6.5%
(C) 7%
(D) 7.5%
- 130.** The HCF of two numbers is 11 and their LCM is 7700. If one of the numbers is 275, then the other is
- (A) 279
(B) 283
(C) 308
(D) 318
- 131.** The average weight of 16 boys in a class is 50.25 kg and that of the remaining 8 boys is 45.15 kg. The average weight of all the boys in the class is
- (A) 42.25 kg
(B) 51.25 kg
(C) 48.55 kg
(D) 50 kg
- 132.** In how many years will ₹ 2,000 amount to ₹ 2,662 at 10% compound interest?
- (A) 3 years
(B) 3.5 years
(C) 4 years
(D) 5 years
- 133.** A sum of ₹ 6,400 earns a compound interest of ₹ 1,008.80 in 18 months when the interest is reckoned half-yearly. Find the rate of interest.
- (A) 5%
(B) 8%
(C) 10%
(D) 12%
- 134.** The diameter of a circular wheel is 1.4 m. How many revolutions will it make in travelling 22 km?
- (A) 5000
(B) 8500
(C) 9000
(D) None of the above

135. The price of an electric bike was ₹ 1,25,000 last year. This year, its price got decreased by 30%. What is the price of the electric bike this year?
- (A) ₹ 80,000
(B) ₹ 85,000
(C) ₹ 87,500
(D) ₹ 90,000
136. Two students appeared in an examination. One of them secured 9 marks more than the other and his marks were 56% of the sum of their marks. The marks obtained by them were
- (A) 41 and 32
(B) 43 and 34
(C) 42 and 33
(D) 39 and 30
137. If the price of petrol has increased from ₹ 40 per litre to ₹ 60 per litre, by how much percent a person has to decrease his consumption so that his expenditure remains same?
- (A) 66.67%
(B) 40%
(C) 33.33%
(D) 45%
138. The price of an umbrella decreased by 20%. As a result of which the sale increased by 40%. What will be the net effect on the total revenue of the shop?
- (A) 12% decrease
(B) 15% increase
(C) 20% decrease
(D) 12% increase
139. If 20 men working for 10 days earn ₹ 71,800, how much will 26 men earn in 17 days?
- (A) ₹ 1,58,678
(B) ₹ 1,78,678
(C) ₹ 1,58,000
(D) ₹ 1,55,000
140. A and B undertake to do a piece of work for ₹ 450. A can do it in 20 days and B can do it in 40 days. With the help of C, they finish it in 8 days. How much should C be paid for his contribution?
- (A) ₹ 280
(B) ₹ 40
(C) ₹ 120
(D) ₹ 180
141. M did a piece of work in 5 days. That piece of work was done by N in 9 days. If M and N worked together, they got total wages of ₹ 4,200. Find the share of N.
- (A) ₹ 1,500
(B) ₹ 2,000
(C) ₹ 1,000
(D) ₹ 1,200
142. Find the ratio of the diagonal of a square of side 30 cm to its side.
- (A) $1 : \sqrt{2}$
(B) $1 : 1$
(C) $\sqrt{2} : 1$
(D) None of the above

143. The ratio of two numbers is 9 : 5. If 9 is added to the greater number and 5 is subtracted from the smaller number, the greater number becomes thrice the smaller one. Find the numbers.

- (A) 72 and 40
- (B) 18 and 10
- (C) 36 and 20
- (D) None of the above

144. Which of the following is the largest?

$$\frac{5}{6}, \frac{11}{12}, \frac{7}{18}, \frac{11}{21}$$

- (A) $\frac{5}{6}$
- (B) $\frac{11}{12}$
- (C) $\frac{7}{18}$
- (D) $\frac{11}{21}$

145. A quantity $\frac{4}{5}$ is changed to $\frac{5}{6}$. How much percentage change is given to the quantity?

- (A) 4.73%
- (B) 4.37%
- (C) 4.71%
- (D) 4.17%

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

$$5\frac{1}{6} - 3\frac{4}{9} + ? = \frac{7}{3} \times 4\frac{1}{6}$$

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

147. A train 315 m long is running at 54 km/hr. How much time will it take to cross a pole?

- (A) 20 sec
- (B) 21 sec
- (C) 22 sec
- (D) 23 sec

148. In how many years will ₹ 250 invested at the rate of 8% per annum simple interest amount to ₹ 330?

- (A) 2.5 years
- (B) 3 years
- (C) 3.5 years
- (D) 4 years

149. Calculate the interest amount on ₹ 7,500 in 2 years at 6% compounded annually.

- (A) ₹ 925
- (B) ₹ 927
- (C) ₹ 930
- (D) ₹ 940

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

$$156 + 328 \times 0.8 = ?$$

- (A) 410
- (B) 418.4
- (C) 420
- (D) 430