

Paper Code No: B36

Question Booklet No.

ENTRANCE EXAMINATION – 2020

SET – B

Roll No.

B3602258

.....
Signature of Invigilator

Time: 1 Hour 30 Minutes

Total Marks: 90

Instructions to Candidates

1. Do not write your name or put any other mark of identification anywhere in the OMR Answer Sheet. IF ANY MARK OF IDENTIFICATIONS IS DISCOVERED ANYWHERE IN OMR RESPONSE SHEET, the OMR sheet will be cancelled, and will not be evaluated.
2. **This Question Booklet contains the cover page and a total of 90 Multiple Choice Questions of One mark each.**
3. Space for rough work has been provided at the beginning and end. Available space on each page may also be used for rough work.
4. There is negative marking in Multiple Choice Questions. For each wrong answer, 0.25 marks will be deducted.
5. **USE/POSSESSION OF ELECTRONIC GADGETS LIKE MOBILE PHONE, iPhone, iPad, pager ETC. is strictly PROHIBITED.**
6. Candidate should check the serial order of questions at the beginning of the test. If any question is found missing in the serial order, it should be immediately brought to the notice of the Invigilator. No pages should be torn out from this question booklet.
7. Answers must be marked in the OMR Response sheet which is provided separately. OMR Response sheet must be handed over to the invigilator before you leave the seat.
8. The OMR Response sheet should not be folded or wrinkled. The folded or wrinkled OMR/Response Sheet will not be evaluated.
9. Write your Roll Number in the appropriate space (above) and on the OMR Response Sheet. Any other details, if asked for, should be written only in the space provided.
10. There are four options to each question marked A, B, C and D. Select one of the most appropriate options and fill up the corresponding oval/circle in the OMR Response Sheet provided to you. The correct procedure for filling up the OMR Answer Sheet is mentioned below.

CORRECT METHOD

(A) ● (C) (D)

WRONG METHODS

(A) ✗ (C) (D)	(A) (B) ✗ (C) (D)	(A) ● (C) (D)	(A) ● (C) (D)	(A) ● (C) (D)	(A) ● (C) (D)	(A) ● (C) (D)
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$$A+B=4$$

$$A=12$$

$$A+B=4$$

$$A=12$$

Quantitative Aptitude

1. A and B can together complete a piece of work in 4 days. If A alone can complete the same work in 12 days, in how many days can B alone complete that work?

A. 4 days
B. 5 days
C. 6 days
D. 7 days

$$A+B=4$$

$$A=12$$

$$B=2$$

2. 4, 6, 9, 13,?

A. 15
B. 12
C. 18
D. 17

$$A+B=3$$

$$B=2$$

$$A=1$$

$$B=2$$

$$A+B=3$$

$$B=2$$

$$A=1$$

$$B=2$$

3. If sales tax is reduced from 5% to 4%, then what difference it will make if you purchase an item of Rs.1000

A. 10
B. 20
C. 30
D. 40

$$2\% \frac{8}{100}$$

$$2\% \frac{17}{100}$$

$$2$$

4. HCF of 8, 9, 25 is

A. 8
B. 9
C. 25
D. 1

$$3 \frac{9}{100}$$

$$3$$

5. What is the rate of discount if a car which was priced at \$4000 was sold for \$3200?

A. 14
B. 16
C. 18
D. 20

$$5 \frac{25}{100}$$

$$5$$

6. What will be the fraction of 4%
- A. $1/20$ B. $1/50$
C. $1/75$ ☒ D. $1/25$
7. The least number that is divisible by all numbers from 1 to 5 (both inclusive) is
- A. 5 B. 60
C. 20 D. 100
8. Which of the following has its area and perimeter numerically equal?
- A. an equilateral triangle of side 1 cm
☒ B. a square of side 2 cm
C. a square of side 1 cm
D. a regular pentagon of side 1 cm.
9. Find the average of all numbers between 6 and 34 which are divisible by 5
- A. 15 ☒ B. 20
C. 25 D. 30
10. Average age of boys in a class is 16 years and average age of girls is 15 years, what is the average age of all
- ☒ A. 15.5 B. 15
C. 16 D. Can't be computed

- ✓ 11. In a college, the ratio of the number of boys to girls is 8:5. If there are 200 girls, the total number of students in the college is

A. 420 ~~B. 520~~
C. 620 D. 720

12. 1000 men have provisions for 15 days. If 200 more men join them, for how many days will the provisions last now?

A. 10.5 B. 11.5
~~C. 12.5~~ D. 10.4

$$\begin{array}{r} 1000 \rightarrow 15 \\ 1200 \rightarrow 15 \times 200 \\ \hline 1200 \\ = 12.5 \end{array}$$

- ✓ 13. A man buys an article for Rs. 27.50 and sells it for Rs 28.60. Find his gain percent

A. 1% B. 2%
C. 3% ~~D. 4%~~

$$\begin{array}{r} 28.60 \\ - 27.50 \\ \hline 1.10 \\ 27.50 \times 100 \\ \hline 25 \end{array}$$

14. ~~0.003 x 0.02 = ?~~

A. 0.06 B. 0.006
C. 0.0006 ~~D. 0.00006~~

$$\begin{array}{r} 0.003 \times 0.02 \\ 3 \times 2 = 6 \\ 1000 \times 100 = 100000 \\ \hline 0.00006 \end{array}$$

- ✓ 15. How many pieces of 0.85 meters can be cut from a rod 42.5 meters long

A. 30 B. 40
~~C. 50~~ D. 60

$$\begin{array}{r} 42.50 \\ \div 0.85 \\ \hline 50 \end{array}$$

16.

If $a + b = 5$ and $a - b = 3$ then value of $a^2 + b^2$ should be

A. 21

B. 15

C. 17

D. 11

17. 12, 32, 72, 152, (?), 632

A. 815

C. 515

B. 613

D. 312

18.

A sum of money amounts to Rs. 9800 after 5 years and Rs 12005 after 8 years at the same rate of simple interest. The rate of interest per annum is

A. 9%

B. 10%

C. 11%

D. 12%

19.

A cyclist covers a distance of 750 meter in 2 minutes 30 seconds. What is the speed in km/hr of cyclist

A. 16 km/hr

B. 17 km/hr

C. 18 km/hr

D. 19 km/hr

20.

The value of $25.25 - 23.23 + 24.24$

A. 26

B. 26.26

C. 2.2

D. -22.22

$$a = 4$$

$$b = 1$$

$$\frac{9800}{1205}$$

$$4^2 + 1^2$$

$$16 + 1 = 17$$

$$a + b = 5$$

$$a - b = 3$$

$$\hline 2b = 2$$

$$b = 1$$

$$b = 1$$

$$a + b = 5$$

$$a = 5 - b$$

$$a = 5 - 1 = 4$$

$$12 + 20 = 32$$

$$32 + 40 = 72$$

$$72 + 80 = 152$$

$$152 + 160 = 312$$

$$\begin{array}{r} 152 \\ \times 2 \\ \hline 304 \\ + 8 \\ \hline 312 \end{array}$$

$$9800 - 5$$

$$12005 - 8$$

$$\frac{9800 \times 5 \times R}{100} = \frac{12005 \times 8 \times R}{100}$$

$$\frac{1000}{9800} \times \frac{12005}{1205} = \frac{10800}{10800}$$

$$25.25 - 23.23 + 24.24$$

$$= 2.02 + 24.24$$

$$= 26.26$$

Reasoning

21. If in a certain language MANNERS is coded as SRENNAM, how is MANAGEMENT coded in that code?

- A. TNEMEĠANAM B. TNEMEĠBNAM
C. TNEMEGAMAM D. TNEMDĠANAM

22. Statements: All Carrots are birds. Some telephones are Carrots. All bedsheets are telephone.

- I. All bedsheets are birds
II. Some bedsheets are birds
III. Some birds are telephones
IV. All telephones are birds.

- A. Only I follows B. Only II follows
C. Both I and II follow D. Only III follows



A

B

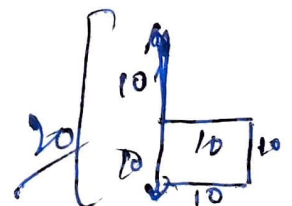
23. A's mother is sister of B and daughter of C. D is daughter of B and sister of E. How is C related to E?

- A. Father B. Grandfather
C. Grandmother D. Either Grandfather or Grandmother



24. A man went 10 kms towards South. Then turned East and covered 10 kms and turned to the right. Again after 10 kms, he turned left and covered 10 kms to reach the destination. How far is he from his starting point?

- A. 18.8 km B. 28.28 km
C. 16 km D. 20 km



[5]

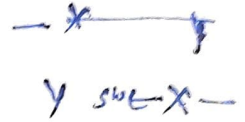
25. ☒ Mr. X and Mr. Y are facing each other and are enjoying the sunrise. If Mr. X's shadow falls on his left side, then which direction is Mr. Y facing?

A. North

B. South

C. East

☒ D. West



26. ☒ The time on the watch is quarter to three. If the minute-hand points to North-East, in which direction does the hour hand point?

A. South-West

B. South-East

C. North-West

D. North

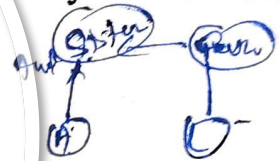
27. ☒ A man said to a lady, "Your mother's husband's sister is my aunt". How is the lady related to the man?

A. Mother

☒ B. Sister

C. Daughter

D. Aunt



28. Assertion (A): Clothes are not washed properly in hard water.

Reason (R): Hard water has no power of removing dust on clothes.

Choose the correct answer from below :

A. Both Assertion and Reason are true and R is the correct explanation of A.

B. Both Assertion and Reason are true but R is NOT the correct explanation of A

C. Assertion is true but Reason is false.

D. Assertion is false but Reason is true.

29. In a certain code 'INACTIVE' is written as VITCANIE. How is 'COMPUTER' written in that code?

A. UTEPMOCR

B. MOCPETUR

C. ETUPMOCR

D. PMOCRETU

30. Rakesh obtained more marks than Suresh but less than Santosh. Ramesh obtained more than Rajesh but less than Harish. Santosh obtained less than Rajesh. Who obtained the highest marks?

A. Santosh

B. Rakesh

C. Ramesh

D. Harish

*Rakesh < Suresh < Santosh < Ramesh
Rajesh < Ramesh
Ramesh > Rajesh
Ramesh < Harish*

31. Statements: No watch is cycle. No cycle is Motorbike. Some auto are motorbike
Conclusion:

I. No Motorbike is watch

II. No motor bike is cycle

III. Some cycles are watches

IV. All Motorbikes are watches

A. None follows

B. Only I follows

C. Only I and III follow

D. None of these

*W ≠ Cy
Cy ≠ Motor
Auto & Motor*

32. if $x > y$ and $y > z$ then

A. $x > z$

B. $x < z$

C. $x = 0$

D. $y = 0$

$x > y$

33. Assertion (A): Legumes revive the soil fertility

Reason (R): Microbes in the root nodules of legumes fix the atmospheric nitrogen.

Choose the correct answer from below:

- A. If both Assertion and Reason are true and R is the correct explanation of A.
- B. If both Assertion and Reason are true and R is not the correct explanation of A.
- C. If A is true but R is false.
- D. If A is false but R is true.

34. Saima ranks nineteenth in a class of 68 students. What is her rank from last?

~~A. 50~~

B. 51

C. 49

D. 48

$$\begin{array}{r} 68 \\ -19 \\ \hline 49 \end{array}$$

35. Five years ago, A was thrice as old as B and ten years later, A shall be twice as old as B. What is the present age of A.

A. 20

~~B. 50~~

C. 60

D. 40

$$\begin{array}{l} A \quad B \\ (A-5) = 3(B-5) \\ A+10 = 2(B+10) \\ A-5 = 3B-15 \\ A-3B = -10 \\ A-2B = -10 \\ \hline +B = 0 \end{array}$$

36. Interest: Money Lender:: Salary: ?

A. Employees

B. Zamindar

C. Workers

D. Prisoners

37. Statement written as value of x is less than 50 is represented as

A. $50 > x$

B. $x > 50$

C. $x < 50$

D. $50 < x$

38. If Orange is called Lemon, Lemon is called Flower, Flower is called Fish, Fish is called Tail and Tail is called Pen, what is Rose ?

A. Pen

B. Lemon

C. Flower

D. Fish

39. If Karan says, "Rocky's mother is the only daughter of my mother", How is Karan related to Rocky?

A. Brother

B. Father

C. Uncle

D. Grandfather

40. A, P, R, X, S and Z are sitting in a row. S and Z are in the centre. A and P are at the ends. R is sitting to the left of A. Who is to the right of P ?

A. A

~~B. X~~

C. S

D. Z

A SZRAPX

English

Comprehension:-

There are many types of hotels, big and small. Big hotels, which are part of a 'group', offer guests a standard that does not vary from one location to another. Hotels can be awarded 'Stars' if their facilities match the Tourist Boards specifications. The more stars, the higher the standards.

People expect rooms with ensuite facilities. There is also a choice of single, double or family rooms to book. Hotels in large busy cities often have triple glazed windows to help reduce the noise of passing traffic.

When you stay in a hotel, the facilities are reflected in the price of the accommodation. Many establishments have swimming pools, squash courts, health clubs, gymnasiums and indoor play areas for young family members. Some of these activities can be used by non-residents, providing they pay the subscription fee. There are hotels with golf courses in their grounds. Some have lakes that are offered to guests who wish to fish or take out a boat to fill their leisure time.

A good hotel with pleasant helpful staff contributes to making a holiday enjoyable and encourages return visits. Christmas cards are sent to regular guests from the hotel management. A varied choice of fresh food beautifully presented in a dining area with lovely views, all add to the holiday experience.

If the guests do not wish to dine in the restaurant, room service is an alternative. A menu is supplied in the room from which guests can order. When the food is ready, a member of staff will bring it to the room. If the guests have to leave early in the morning before the dining room is serving breakfast, an order can be placed the night before leaving and breakfast will be delivered to the room at the desired time. There is always a list of the restaurant opening times in the room.

Most hotels ask their guests to vacate their rooms by 12 noon on the day of their departure. This is so the staff have enough time to clean the room, make up the bed and generally tidy the area, before the next occupants arrive. New visitors to a hotel do not usually have access to their room until after mid-day.

Reading comprehension questions that go with the above reading passage are from Q. 41 to Q. 45.

41. Why are hotels awarded stars?

- A. They indicate the number of rooms in the building
- B. The stars are a way of knowing what facilities they offer
- C. They tell guests the hotel is open all year.
- D. The stars indicate the size of the grounds.

42. Why do hotels in busy cities have double and triple glazed windows?

- A. It helps to reduce noise levels.
- B. To stop the sun shining in.
- C. To keep the window cleaners busy.
- D. They give a clearer view.

43. What facilities are offered to non-residents ?

- A. Only the bedrooms.
- B. Non-residents are not welcome.
- C. Only play areas for children.
- D. The dining room, adjacent golf courses and the fitness areas.

44. What does room service mean?

- A. Food and drink can be delivered to your room.
- B. The guests have to leave.
- C. An electrician comes to turn off the lights.
- D. The room is ready for cleaning.

45. Why are guests asked to vacate their rooms by 12 noon on departure day?

- A. To check nothing has been stolen.
- B. So that the room can be cleaned ready for the next occupants.
- C. So the room can be repainted.
- D. To let the staff sit in it when they are tired.

For Q. 46 to 49 Read each sentence to find out whether there is any grammatical error in it. The error, if any will be in one part of the sentence. The letter of that part is the answer. If there is no error, the answer is 'D'. (Ignore the errors of punctuation, if any).

46. (solve as per the direction given above)

- A. We discussed about the problem so thoroughly
- B. on the eve of the examination
- C. that I found it very easy to work it out.
- D. No error.

47. (solve as per the direction given above)

- A. if I had known
- B. this yesterday
- C. I will have helped him.
- D. No error

48. (solve as per the direction given above)

- A. Having received your letter
- B. this morning, we are writing
- C. to thank you for the same.
- D. No error.

49. (solve as per the direction given above)

- A. The students were
- B. awaiting for
- C. the arrival of the chief guest.
- D. No error.

Match the idiom/ phrase to correct option

50. To keep one's temper

- | | |
|----------------------------|-----------------------|
| A. To become hungry | B. To be in good mood |
| C. To preserve ones energy | D. To be aloof from |

51. To cry wolf

- | | |
|----------------------|-----------------------------|
| A. To listen eagerly | B. False alarm |
| C. To turn pale | D. To keep off starvation ✓ |

52. Sobhraj could be arrested because the police were tipped off in advance

- | | |
|------------------------------|---------------|
| A. Toppled over | B. Bribed |
| C. Given advance information | D. Threatened |

53. Spelling test - find correct spelling:

- | | |
|--------------|--------------|
| A. Acoompany | B. Accompany |
| C. Acommpany | D. Acompany |

54. Spelling test - find correct spelling:

- | | |
|------------------|-----------------|
| A. Acquainttance | B. Acquaintance |
| C. Accquaintance | D. Acquaintance |

55. Synonym of Rebate

- | | |
|-----------|-----------------|
| A. Loss | B. Compensation |
| C. Refund | D. Discount |

56. Antonym of Modern

- | | |
|------------|------------|
| A. Up-date | B. Recent |
| C. Cast | D. Ancient |

57. ✗ Match correct Active and Passive Voice

His pocket has been picked.

- A. They have his pocket picked
- B. Picking has been done to his pocket
- C. Picked has been his pocket
- D. • Someone has picked his pocket

58. ✗ Select the answer choice that identifies the noun in the sentence.

It will take all of your energy and will to be able to walk again

- | | |
|-----------|-------------|
| A. Take | B. All |
| C. Your • | D. ✗ Energy |

59. ✗ As _____ cuts it as well as he does, I always have my hair cut at Johnson's.

- | | |
|------------------|-------------------|
| A. anyone | B. someone else's |
| C. • no one else | D. everyone |

60. You must be back _____ four o'clock.

A. for

B. by

C. to

D. in

61. She will live _____ than him

A. long

B. larger

C. longer

D. longest

62. She held the bag _____, even though her arm hurt _____

A. tight; badly

B. tightly; bad

C. tight; bad

D. tightly; badly

63. _____ by people's perception it seems that democracy has succeeded in India.

A. following

B. going

C. making

D. planned

64. Don't make so much noise. Arisha _____ to study for her ESL test.

A. try

B. tries

C. tried

D. is trying

65. What time _____

A. the train leaves?

B. leaves the train?

C. is the train leaving?

D. does the train leave?

Rearrange the given six sentences A,B,C,D,E,F in a proper sequence so as to form a meaningful paragraph and then answer the questions from Q. 66 to Q. 70.

- A. Yuvraj slammed 84 runs, Zaheer yorked Steve Waugh, and Indian cricket had two new stars in the new millennium.
- B. And for nostalgia-seekers, there are those riveting images of Yuvraj Singh and Zaheer Khan's stunning individual acts against Australia in the quarter-final at the Gymkhana Club Ground at Nairobi in 2000.
- C. Seen in that context, it is a travesty that the Board of Control for Cricket in India is now using the Champions Trophy as a bargaining tool with the ICC (International Cricket Council) in a bid to retrieve its earlier proposed governance and revenue model with the parent body.
- D. That move had already been scuttled at the ICC meeting in Dubai on April 26 with India being out-voted. Immediately thereafter, BCCI officials floated the story that India would not participate in the eighth edition of the Champions Trophy in England from June 1 to 18.
- E. For starters, India is the defending champion, having won the last edition in England in 2013.
- F. The ICC Champions Trophy may not have the allure of the World Cup or the ICC World Twenty20, but it has its own charm, especially for Indians.

66. Which of the following should be the LAST sentence after the rearrangement?

- A. D B. A
C. C D. F

67. Which of the following should be the FIRST sentence after the rearrangement?

- A. F B. E
C. D D. A

68. Which of the following should be the SECOND sentence after the rearrangement?

- A. C B. A
C. B D. E

69. Which of the following should be the FOURTH sentence after the rearrangement?

- A. D B. A
C. C D. F

70. Which of the following should be the **THIRD** sentence after the rearrangement?

- A. A B. B
- C. C D. D

General Awareness

- ✓ 71. The members of the Rajya Sabha are elected by
- A. the people
 - B. Lok Sabha
 - C. elected members of the legislative assembly
 - D. elected members of the legislative council
72. Who was not included under "Navratana" of Akbar
- A. Birbal
 - B. Tansen
 - C. Raja Man Singh
 - D. Raja Bharmal
- ✓ 73. Tipu sultan was the ruler of
- A. Hyderabad
 - B. Madurai
 - C. Mysore
 - D. Vijayanagar
74. Nobel Prize for Economic Sciences to alleviating global poverty in 2019 was given to
- A. John B. Goodenough
 - B. Abiy Ahmed Ali
 - C. Abhijit Banerjee
 - D. Peter Handke
75. Mocktail is a drink which
- A. Contains less quantity of alcohol
 - B. Contains large quantity of alcohol
 - C. Does not contain alcohol
 - D. May or may not contain alcohol

76. Ajanta-Ellora caves are situated near

A. Ajmer

B. Jaipur

C. Patna

D. Aurangabad

77. ✓ 1. The deadly "Coronavirus outbreak" in January 2020 was started in the Chinese city of

A. Chengdu

B. Wuhan

C. Hangzhou

D. Shenzhen

78. ✗ The Victoria Memorial is a large marble building, built between 1906 and 1921, in which city

A. Mumbai

B. Delhi

C. Chennai

D. Kolkata

79. Who among the following was recently named as the next Police Commissioner of Delhi?

A. SN Shrivastava

B. Amit Pradhan

C. Devendra Nath

D. SK Chaturvedi

80. The retreating Monsoon gives rainfall to

A. Goa

B. Tamil Nadu

C. Gujarat

D. Maharashtra

81. The preamble to our constitution provided that India is
- A. a sovereign, socialist and democratic republic
 - B. a sovereign, socialist, secular and democratic republic
 - C. a sovereign republic with a socialist pattern of society
 - D. a socialist, secular and democratic republic
82. ✓ Best method of disposal of garbage is
- A. Burning
 - B. Land filling
 - C. Incineration
 - D. Vermiculture
83. ✓ A software is a set of instructions or programs to execute a specific task. Which one is not a form of software?
- A. Microsoft Word
 - B. Microsoft Excel
 - C. Microsoft PowerPoint
 - D. Monitor
84. ✓ What is the mainstay of Indian economy?
- A. Manufacturing
 - B. Business
 - C. Public sector
 - D. Agriculture
85. ✓ Which department in a hotel does registration and check-out of guests
- A. Housekeeping
 - B. Front Office
 - C. Food and Beverage Service
 - D. Concierge

86. ✓/✗ Joaquin Phoenix won best actor in a leading role for which film?

- A. Once upon a time in Hollywood
- B. Bombshell
- C. Joker
- D. 1917

87. ✗ Which of the following phenomenon is responsible for global warming

- A. Greenhouse effect
- B. Fire in coal mines
- C. Dry farming
- D. Monsoon

88. ✓ This part of the computer does all of the 'thinking'. It can carry out billions of instructions per second and gets very hot.

- A. Motherboard
- B. Hard Drive
- C. RAM
- D. Processor

89. ✗ Which of the following is India's largest salt producing state

- A. Rajasthan
- B. Gujarat
- C. Odisha
- D. Tamil Nadu

90. ✓ Which blood group is called the "universal donor"?

- A. A
- B. B
- C. AB
- D. O