P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Third Semester, MCA - Semester End Examination; Dec. - 2019
Aptitude and Reasoning Development Beginner (ARDB)
(Common to all Branches)

Time: 1½hr   *Max. Marks: 50*

Instructions:

i) Questions 1 - 50 carry one mark each; Put a (✓) mark against correct option in the answer sheet.

1. M and N can do a piece of work in 8 days and O can do it in 24 days. In how many days will M, N, and O do it together?

   A. 6 Days   B. 5 Days   C. 4 Days   D. 4 2/3 Days

2. One man can paint a house in, '10' days and another man can do it in 15 days. If they work together, they can do it in 'd' days, then the value of 'd' is

   A. 6 Days   B. 8 Days   C. 12 Days   D. 10 Days

3. Find the sum of all the 4 digit numbers that can be formed with the digits 3, 4, 4 and 2.

   A. 43339   B. 43999   C. 43329   D. None of these

4. Find the sum of all the 4 digit numbers that can be formed with the digits 3, 4, 5 and 6

   A. 119988   B. 11988   C. 191988   D. None of these

5. An orange vendor makes a profit of 10% by selling oranges at a certain price. If he charges Rs. 1.4 higher per orange he would gain 30%. Find the original price at which he sold an orange.

   A. Rs. 6   B. Rs. 5.80   C. Rs. 6.25   D. Rs 7.70

6. A man bought a horse for a certain sum and sold it, at a loss of 8 % on his outlay. If he had received Rs. 1800 more, he would have gained 14½ % on his outlay. What did the horse cost?

   A. Rs. 3,500   B. Rs. 5,000   C. Rs. 6,000   D. Rs. 8,000

7. The product of 40 odd numbers is

   A. even   B. odd   C. 625   D. Can't say

8. Which of the following numbers is divisible by 2?

   A. 178653   B. 164857   C. 176485   D. 178560

9. The product of two numbers is 6760 and their H.C.F. is 13. How many such pairs can be formed?

   A. 0   B. 3   C. 4   D. 15. 2

10. least perfect cube which is divisible by 2, 3, 4 and 6 is

    A. 360   B. 216   C. 512   D. 1728

11. The sum of the first six terms of an AP is 48 and the common difference is 2. What is the 4th term?

    A. 2400   B. 2700   C. 3200   D. 2100

12. Three candidates, Ajay, Bijoy & Chandu contested an election and received 1800, 3300 and votes 3900 respectively. What percent of the total votes did A get?

    A. 20%   B. 40%   C. 45%   D. 70%

13. Determine the probability that a number chosen at random from the digits 1, 2, 3, ……, 10 will be a multiple of 4.

    A. ¼   B. 1/3   C. 1/5   D. 1/2

14. Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even?

    A. 1/2   B. 3/4   C. 3/8   D. 5/16

15. In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?
    A. 1/10   B. 2/5   C. 2/7   D. 5/7

16. If in the English alphabet, every alternate letter from B onwards is written in small letters while others are written in capitals, then how will the 3rd day from Tuesday will be coded?
    A. W e D N e S d A Y   B. W E d n E S d A Y
    C. T H U R S d A Y   D. f r I d A Y

17. If the letters of the word 'CYCLINDER' are arranged alphabetically, then which letter would be farthest from the first letter of word?
    A. N   B. E   C. 3. Y   4. R

DIRECTIONS for questions 18 & 19: 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 the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

18. **Statements:** Some messages are whatsapp. All Hikes are whatsapp. All whatsapp are facebook.
    Conclusion:
    I. Some facebook are messages   II. All hikes are facebook
    III. Some messages are hikes   IV. Some message are facebook
    A. All follow   B. Only I, II and III follow
    C. Only I, II and IV follow   D. Only III and IV follow

19. **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

20. The cost price of a radio is Rs.1500 and it was sold for Rs.1230, find the loss %?
    A. 18%   B. 9%   C. 15%   D. 6%

21. either yOUr brothers or mother going to bUy a new flat?
    A. is   B. are

22. Six times five divided by two fifteen.
    A. is   B. are

23. Three fifths of all the money already been spent.
    A. has   B. have

24. Some of the children in the playgrOUnd playing hide and seek.
    A. is   B. are

25. One fifth of the corn field destroyed by the grasshoppers.
    A. was   B. were

26. Prime minister have full authority _____ his ministers
    A. Among   B. for   C. over   D. to

27. Prachi distributed the sweets _____ her friends
    A. To   B. with   C. for   D. among

28. My friend has been living in UK
    A. For   B. among   C. to   D. with

29. My brother's birthday is _____ 22th July.
    A. From   B. on   C. to   D. in
30. Meera is sitting _____ chair.
    A. On   B. from   C. in   D. to
31. New York is ----- large city
    A. a   B. an   C. the   D. no article
32. Are you attending ----- reception today
    A. a   B. an   C. the   D. no article
33. ----- Oranges are grown in Nagpur
    A. a   B. an   C. the   D. no article
34. She wants to become ----- engineer
    A. a   B. an   C. the   D. no article
35. ----- lion is a ferocious animal
    A. a   B. an   C. the   D. no article
36. ----- unit means a measurement
    A. a   B. an   C. no article D. the
37. He is ----- honest official.
    A. a   B. an   C. the   D. no article
38. Taj mahal is built of ----- marble
    A. a   B. an   C. the   D. no article
39. He is ----- European
    A. an   B. a   C. no article D. the
40. Let us play ----- chess
    A. no article   B. a   C. an   D. the
41. Shakespeare has written dramas appealing to all people of all ages.
    A. simple present   B. present continuous
    C. past perfect   D. present perfect
42. I shall visit the book fair tomorrow.
    A. simple past   B. simple present
    C. simple future   D. future continuous

Directions: Read the passage. Then answer the questions below.

There are many kinds of boats.

One kind of boat is called a sailboat. A sailboat uses the wind to move. Wind makes a sailboat move in the water. The wind pushes the sailboat. Wind fills the sails. The sailboat moves when the wind blows. One kind of boat is called a motorboat. A motorboat uses a motor to move. The motor gives power to the boat. The motorboat moves when the motor is running. The motorboat makes a loud noise.

One kind of boat is called a rowboat. A rowboat needs people to move it. People make a rowboat move in the water. People use oars to move a rowboat. Oars are long and flat. Oars go into the water. A rowboat moves when people use the oars. As you can see, there are many kinds of boats.

43. Which boat uses the wind to move?
    A. a sailboat   B. a rowboat   C. a motorboat
44. Which boat makes a loud noise?
    A. a sailboat   B. a motorboat   C. a rowboat

45. What is used to move a rowboat?

    A. wind   B. a motor   C. oars

46. According to the passage, oars are

    A. short and fat   B. long and flat   C. big and heavy

47. This passage is mainly about

    A. different kinds of boats   B. where to use a rowboat   C. how to make a boat

48. Which boat(s) can still move if there is no wind?

    I. a motorboat   II. a rowboat   III. a sailboat

    A. I only   B. I and II only   C. I, II, and III

49. Tom doesn't like loud noises. Which boat(s) does he probably like to ride in?

    I. a sailboat   II. a rowboat   III. a motorboat

    A. I only   B. I and II only   C. I, II, and III

50. What would be the best title for this passage?

    A. Boats that Make Noise

    B. The Sailboat and the Motorboat

    C. Three Kinds of Boats

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