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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. Chetan is thrice as efficient as Mamta and together they can finish a piece of work in 60 days. Mamta will take how many days to finish this work alone?

    A. 80 Days　　　　　B. 160 Days　　　　　C. 240 Days　　　　　D. 320 Days

2. Mr. Ram has a sum of money, which is sufficient to pay Usha's wages for 30 days and Manika's wages for 60 days. If he employs them together, the money is sufficient to pay their wages for how many days?

    A. 12 Days　　　　　B. 10 Days　　　　　C. 30 Days　　　　　D. 20 Days

3. In an examination, a candidate is required to pass all five different subjects. The number of ways he can fail is:

    A. 32　　　　　B. 31　　　　　C. 30　　　　　D. 29

4. In how many ways can you rearrange the word JUMBLE such that the rearranged word starts with a vowel?

    A. 120　　　　　B. 240　　　　　C. 360　　　　　D. 60

5. A real estate agent sells two sites for Rs. 18000 each. On one he gains 25% and on the other he loses 25 %. What is his loss or gain percent?

    A. 6.25 % gain　　　B. 6.25% loss　　　C. No profit no loss　　　D. 4% loss

6. If a retailer marks up his price by 30 % and then allows a 30 % discount, what is his percentage profit or loss?

    A. 9 % gain　　　　　B. 8 % gain　　　　　C. 8% loss　　　　　D. 9 % loss

7. Simplify the expression using BODMAS rule (105 + 206) - 550 ÷ 52 + 10

    A. 399　　　　　B. 289　　　　　C. 298　　　　　D. 299

8. Find the smallest three number which is a multiple of 7.

    A. 103　　　　　B. 105　　　　　C. 98　　　　　D. None of these

9. What is the L.C.M. of 25, 30, 35 and 40?

    A. 3800　　　　　B. 4200　　　　　C. 4400　　　　　D. 3200

10. What is the greatest number which divides 639, 1065 and 1491 exactly?

    A. 193　　　　　B. 183　　　　　C. 223　　　　　D. 213

11. Two friends, Akash & Beenu had some candies each. One of them had 15 candies more than the other. The candies with Akash was 60% of the total candies with them. How many candies did each have?

    A. 40, 25　　　　　B. 47, 32　　　　　C. 45, 30　　　　　D. 49, 34

12. A fruit seller had some oranges. He sells 30% oranges and still has 140 mangoes. Originally, he had:

    A. 288 oranges　　　B. 300 oranges　　　C. 672 oranges　　　D. 200 oranges

13. Determine the probability that a digit chosen at random from the digits 1, 2, 3, …12 will be odd.

    A. ½　　　　　B. 1/9　　　　　C. 5/9　　　　　D. 4/9

14. Determine the probability that a digit chosen at random from digits 1, 2, 3, ….. 13 will be even.

    A. ½   B. 1/9   C. 5/9   D. 6/13

15. A coin is tossed four times, if H = head and T = tail, what is the probability of the tosses coming up in the order HTHH?

    A. 3/16   B. 1/16   C. 5/16   D. 7/16

16. In a certain code 'MISSIONS' is written as 'MSIISNOS'. How is 'ONLINE' written in that code?

    A. OLNNIE   B. ONILEN   C. NOILEN   D. LNOENI

17. In certain code 'TIGER' is written as 'QDFHS'. How is 'FISH' written in that code?

    A. GERH   B. GRHE   C. GREH   D. GHRE5. GEHR

DIRECTIONS for questions 18 & 19: In each of the questions below are given three statements, followed by conclusions: I, II, III, 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 Cats are Rats. All bats are tables. All Rats are Bats.

    Conclusion:

    I. Some Cats are bats   II. All bats are rats

    III. All tables are cats   IV. All bats are cats

    A. Only I & II follow   B. Only II follows

    C. Only I & IV follow   D. None of these

19. **Statements:** Some ships are boats. All boats are submarines. Some submarines are yatches.

    Conclusion:

    I. Some yatches are boats.   II. Some submarines are boats.

    III. Some submarines are ships.   IV. Some yatches are ships

    A. All follow   B. Only II and III follow

    C. Only III follows   D. Only IV follows

20. A cycle is bought for Rs.900 and sold for Rs.1080, find the gain percent?

    A. 16 2/3%   B. 20%   C. 18%   D. 25%

21. Everyone finished reading the fairy tale.

    A. has   B. have

22. Some of the stUdents left the classroom for lUnch.

    A. has   B. have

23. Nobody come for the party yet. We're still waiting.

    A. has   B. have

24. Somebody spilt tea on the table cloth.

    A. has   B. have

25. Each of the teachers willing to attend the meeting at the weekend.

    A. are   B. is

26. You must be back ___ four o'clock.

    A. To   B. by   C. for   D. in

27. Workout is necessary _____ health.

    A. To   B. by   C. for   D. in

28. Women is looking _____ her diamond ring

    A. In   B. inside   C. at   D. to

29. Women is holding cup of tea _____ her hands
    A. In   B. on   C. to   D. by
30. What are doing _____ coming Sunday ?
    A. To   B. on   C. from   D. in
31. ----- unit means a measurement
    A. a   B. an   C. no article   D. the
32. He is ----- honest official.
    A. a   B. an   C. the   D. no article
33. Taj mahal is built of ----- marble
    A. a   B. an   C. the   D. no article
34. He is ----- European
    A. an   B. a   C. no article   D. the
35. Let us play ----- chess
    A. no article   B. a   C. an   D. the
36. New York is ----- large city
    A. a   B. an   C. the   D. no article
37. Are you attending ----- reception today
    A. a   B. an   C. the   D. no article
38. ----- Oranges are grown in Nagpur
    A. a   B. an   C. the   D. no article
39. She wants to become ----- engineer
    A. a   B. an   C. the   D. no article
40. ----- lion is a ferocious animal
    A. a   B. an   C. the   D. no article
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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