

**DON BOSCO COMPETITIVE ADVANTAGE TEST (DB-CAT) 2023**

**CLASS 8**

Name: \_\_\_\_\_

Div.: \_\_\_\_\_ Roll No.: \_\_\_\_\_

**General Instructions:**

- Before you begin, check the total number of printed pages.

- DB-CAT consists of a total of 50 questions as follows;

Q 1-10 English

Q 11-20 Mathematics

Q 21-30 Science

Q 31-40 History

Q 41-50 Geography

Q 51-60 General Knowledge / Current Affairs

- The test is of 60 marks, with a time limit of 60 minutes.

**OMR Related Instructions:**

1. Each Multiple Choice Question (MCQ) has four options, of which only one is the correct answer.
2. Before marking your answers, carefully read each question and review all four options. Changing answers is not permitted.
3. Use a dark pen to mark your answers on the provided OMR sheet. Fully darken the bubble corresponding to your chosen option, as shown in the example below.

Example:

Question: The sun rises in the (a) north (b) east (c) west (d) south

Correct Method	Wrong Method
	
	
	
	
	
	

4. Responses with more than one darkened bubble or those not darkened as per instructions will be considered invalid.
5. Avoid making any stray marks on the sheet.
6. Write your name and other required information at the top of this sheet.

**ENGLISH**

1. Choose the correct spelling of the word shown below.

- a) Accomodate                      b) Accomodate  
c) Accommodate                    d) Acomodate

2. Patrick had a good \_\_\_\_\_ for stage actors. (Choose a suitable word to fill in the blank.)

- a) troop                                b) troupe  
c) trup                                 d) trope

3. These topics were taught in the class, \_\_\_\_\_? (Choose a suitable question tag to complete the sentence.)

- a) wasn't they                        b) don't they  
c) didn't they                        d) weren't they

4. \_\_\_\_\_ Rohit \_\_\_\_\_ Ronan attended the concert. (Choose a pair of suitable conjunction to fill in the blank.)

- a) Either / but                        b) Neither / nor  
c) So / nor                            d) Hence / but

5. Drivers \_\_\_\_\_ wear the seat belt while driving. (Choose the most suitable modal to fill in the blank.)

- a) might                                b) can  
c) ought to                            d) could

6. The fire destroyed expensive products. (Choose the correct form of passive voice for the following sentence.)

- a) Expensive products destroyed by fire.                      b) Expensive products were destroyed in the fire.  
c) The fire, being destroyed expensive products                d) Expensive products was destroyed by the fire.

7. I always keep \_\_\_\_\_ money in my wallet. (Choose a suitable determiner to fill in the blank.)

- a) any                                    b) much  
c) every                                 d) some

8. Next week, Mr. Roberts \_\_\_\_\_ (camp) for more ten days. (Choose the correct verb of Perfect Future Continuous tense to fill in the blank.)

- a) will be camping                    b) will have camping  
c) will have been camping            d) will been camping

9. Choose the correctly joined sentence from the options listed below.

- a) The man was filing a police report who his car had been stolen.                      b) The man whose car was stolen, he was filing a police report.  
c) The man is filing a police report, his car is stolen.    d) The man whose car had been stolen was filing a police report.

10. My brother \_\_\_\_\_ (return) from Karnal recently. (Choose the correct verb of Perfect tense to fill in the blank.)

- a) return                                b) has returned  
c) will return                         d) returning

**MATHEMATICS**

11. The value of  $\frac{1}{2} \div \frac{3}{5}$  is equal to

- a)  $\frac{3}{10}$                                       b)  $\frac{3}{5}$   
c)  $\frac{6}{5}$                                       d)  $\frac{5}{6}$

12. A man is 30 years older than his son. after 10 years, the man will be three times as old as his son. The man's present age is \_\_\_\_\_.

- a) 30                                        b) 35  
c) 40                                        d) 45

13.  $\angle A$  and  $\angle B$  are two adjacent angles of a parallelogram. If  $\angle A = 70^\circ$ , then  $\angle B =$  \_\_\_\_\_.

- a)  $70^\circ$                                       b)  $90^\circ$   
c)  $110^\circ$                                     d)  $180^\circ$

14. A polygon that has a minimum number of sides is a \_\_\_\_\_.

- a) triangle                                b) square  
c) rectangle                              d) kite

15. The width or size of the class interval 30 - 40 is \_\_\_\_\_.

- a) 10                                        b) 30  
c) 40                                        d) 70

16. The square root of 1764 is \_\_\_\_\_.

- a) 42                                        b) 48  
c) 52                                        d) 58

17. The point that will be on the Y-axis is \_\_\_\_\_.

- a) (-2, 0)                                b) (2, 0)  
c) (0, -2)                                d) (2, -2)

18. Which of the given numbers is not a perfect cube?

- a) 216                                        b) 1000  
c) 243                                        d) 1331

19. The area of a rhombus with diagonals 10 cm and 8.2 cm is \_\_\_\_\_.
- a) 41 cm<sup>2</sup>                      b) 82 cm<sup>2</sup>  
 c) 410 cm<sup>2</sup>                    d) 820 cm<sup>2</sup>

20. What is the value of x if  $x + 9 = 12$ ?
- a) 2                                b) 3  
 c) 8                                d) 6

**SCIENCE**

21. Talcum powder is often sprinkled on the carrom board. Due to this, \_\_\_\_\_.
- a) the carrom coins now exert smaller pressure on the carrom board      b) the carrom coins now exert smaller force on the carrom board  
 c) the friction between the carrom coins and carrom board increases      d) the friction between the carrom coins and the carrom board decreases

22. Which of these is a set of non-metallic elements?
- a) carbon, steel, plastic      b) carbon, iron, iodine  
 c) carbon, sulphur, phosphorus      d) carbon, nitrogen, sodium

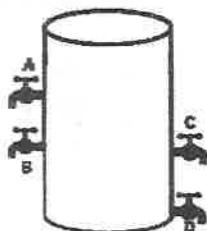
23. Species of plants and animals which are found exclusively in a particular area are called \_\_\_\_\_ species.
- a) endemic                      b) exotic  
 c) endangered                d) extinct

24. Which of the following is not an example of manure?
- a) Sewage                      b) Vermicompost  
 c) Urea                         d) Cow dung

25. From the items given below pick a combustible material.
- a) Glass                        b) Kerosene  
 c) Water                        d) Gold

26. Which of the following microorganisms will be useful to a farmer?
- a) Streptococcus              b) Spirogyra  
 c) Lactobacillus              d) Rhizobium

27. A water tank has four outlets A, B, C and D as shown in the figure. The water will flow out with the same pressure from which outlets?



- a) A and B                      b) B and C  
 c) C and D                      d) B and D

28. We do not feel the air pressure because \_\_\_\_\_.

- a) our body has enough pressure inside it to balance the atmospheric pressure.      b) atmospheric pressure does not affect humans  
 c) total pressure in our body is zero.      d) the atmospheric pressure is negligible.

29. Suppose an astronaut plays a guitar in space, which of the statements is scientifically correct?

- a) There will be no vibrations in the guitar strings.      b) The astronaut will not be able to hold the guitar.  
 c) The astronaut will be able to hear the music.      d) Vibrations will be produced by the guitar but the astronaut will not be able to hear the music.

30. Which of the following is caused by reflection of sound?

- a) Loudness                      b) Pitch  
 c) Echo                            d) Amplitude

**HISTORY**

31. He was the first Governor General of India.
- a) Robert Clive                b) Lord Dalhousie  
 c) Lord Mountbatten        d) Warren Hastings

32. Three presidencies were established by the British with a Governor General for each. Choose the three presidencies from the given list of options.

- a) Madras, Calcutta, Delhi      b) Madras, Bombay, Calcutta  
 c) Madras, Pondicherry, Calcutta      d) Madras, Bombay, Delhi

33. Growers of woad in Europe saw which crop as competition to their earnings?

- a) Indigo                        b) Coffee  
 c) Tea                            d) Rubber

34. What was the new amendment in the law in 1856 passed by the East India Company?

- |   |   |
|---|---|
| a) Every new person who took up employment in the Company's army had to agree to serve overseas if required.    | b) Every new person who took up employment in the Company's army will not be paid a fixed salary. |
| c) Every new person who took up employment in the Company's army had to collect the revenue set by the British. | d) Every new person who took up employment in the Company's army had to pay a tax.                |

35. Name the legislation in 1720 banning the use of printed cotton textile 'chintz' in England.

- |               |                |
|---------------|----------------|
| a) Silk Act   | b) Calico Act  |
| c) Chintz Act | d) Bandana Act |

36. The Revolt of Songra m Saragma rose in the year 1906 in

- |           |                   |
|-----------|-------------------|
| a) Bengal | b) Madhya Pradesh |
| c) Assam  | d) Orissa         |

37. In which year did Bengal witness the Great Famine?

- |         |         |
|---------|---------|
| a) 1770 | b) 1775 |
| c) 1777 | d) 1778 |

38. Who is the chairperson of the Rajya Sabha in India?

- |                              |                          |
|------------------------------|--------------------------|
| a) Prime Minister of India   | b) President of India    |
| c) Vice - President of India | d) Chief Justice - India |

39. Who is known as 'The Father of the Indian Constitution'?

- |                            |                           |
|----------------------------|---------------------------|
| a) Pandit Jawaharlal Nehru | b) Dr. Rajendra Prasad    |
| c) Mahatma Gandhi          | d) Dr. Babasaheb Ambedkar |

40. Separation of religion from the State is referred to as \_\_\_\_\_.

- |               |               |
|---------------|---------------|
| a) federalism | b) secularism |
| c) democracy  | d) socialism  |

41. Resources which are found everywhere are called

- |              |               |
|--------------|---------------|
| a) localized | b) renewable  |
| c) biotic    | d) ubiquitous |

42. A soil conservation method mostly used in coastal and dry regions is

- |                   |                    |
|-------------------|--------------------|
| a) mulching       | b) shelter belts   |
| c) inter cropping | d) terrace farming |

43. Mosses and lichens are endemic to vegetation.

- |              |               |
|--------------|---------------|
| a) tundra    | b) evergreen  |
| c) deciduous | d) grasslands |

44. An example of a ferrous mineral is

- |           |              |
|-----------|--------------|
| a) mica   | b) manganese |
| c) copper | d) bauxite   |

45. Chromite and Platinum deposits are mostly found in

- |                 |            |
|-----------------|------------|
| a) Canada       | b) Sweden  |
| c) South Africa | d) Ukraine |

46. Silicon used in the computer industry is obtained from

- |              |           |
|--------------|-----------|
| a) limestone | b) mica   |
| c) gypsum    | d) quartz |

47. Electricity derived from coal is called \_\_\_\_\_.

- |                  |                      |
|------------------|----------------------|
| a) nuclear power | b) hydro power       |
| c) thermal power | d) geo thermal power |

48. Petroleum is called 'Black Gold' as it is \_\_\_\_\_.

- |                    |                        |
|--------------------|------------------------|
| a) black in colour | b) valuable            |
| c) buried deep     | d) formed from fossils |

49. Bhakra Nangal is an important power station in India.

- |               |            |
|---------------|------------|
| a) hydel      | b) thermal |
| c) geothermal | d) tidal   |

50. \_\_\_\_\_ is called an inexhaustible source of energy.

- |         |               |
|---------|---------------|
| a) Wind | b) Sun        |
| c) Tide | d) Hot spring |

51. Which is the most sensitive organ in our body?

- |          |            |
|----------|------------|
| a) Skin  | b) Stomach |
| c) Lungs | d) Eyes    |

52. Who was the first Prime Minister of India?

- |                         |                   |
|-------------------------|-------------------|
| a) Subhash Chandra Bose | b) Indira Gandhi  |
| c) Jawaharlal Nehru     | d) Mahatma Gandhi |

53. Who is known as 'Father of the Computer'?

- a) John Adams
- b) Charles Babbage
- c) Joe Biden
- d) David Babbage

54. The Dead Sea is located between which two countries?

- a) Israel and Jordan
- b) Portugal and Russia
- c) France and Germany
- d) Canada and Mexico

55. Which is the largest mammal on earth that is known for its filter-feeding method?

- a) Blue Whale
- b) Grizzly Bear
- c) African Elephant
- d) Giant Panda

56. When was G20 founded?

- a) 1991
- b) 1999
- c) 1990
- d) 1992

57. Name the cyclone that hit Gujarat in June 2023.

- a) Tsifu
- b) Amphan
- c) Biparjoy
- d) Typhoons

58. Which state government launched the Namo Shetkari Mahasamman Yojana?

- a) Andhra Pradesh
- b) Maharashtra
- c) Madhya Pradesh
- d) Karnataka

59. Which country has launched the Shenzhou-16 Mission?

- a) Japan
- b) South Korea
- c) China
- d) Israel

60. Which country demonstrated Asia's first performance – based navigation for helicopters?

- a) China
- b) Bangladesh
- c) India
- d) Singapore