

DON BOSCO COMPETITIVE ADVANTAGE TEST (DB-CAT) 2023

CLASS 7

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

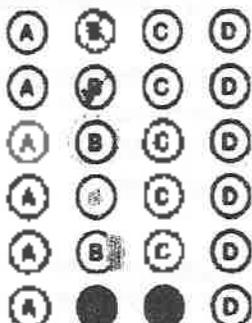
- The test is of 60 marks, with a time limit of 60 minutes.

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. Which of the following sentences are grammatically correct?

- A. The Prime Minister and the President has flown to Japan.
 B. A visit to the dentist can be an expensive and extremely uncomfortable experience.
 C. The man was visibly upset about his performance in the race.
- a) A is correct b) B is correct
 c) C is correct d) A and C are correct

2. The man is extremely stingy. (Select the appropriate antonym for the underlined word.)

- a) generous b) miserly
 c) petty d) angry

3. Select the word with the correct spellings.

- a) councelors b) councilors
 c) counsellers d) counsellors

4. The boys are at home. _____ in the bedroom.

- a) They're b) There
 c) Their d) Thier

5. Which of the following sentences is grammatically correct?

- a) Everyone is going to meet at 11:30 pm.
 b) Everyone are going to meet at 11:30 pm.
 c) Everyone is going to meeting at 11:30 pm.
 d) Everyone is going to meet at 11:30 pm.

6. By the time you get home, I _____ the entire bowl of popcorn.

- a) ate b) have eaten
 c) was eating d) will have eaten

7. Ra: "_____ did you find this purse?"
 Rahul: "I found it on the table."

- a) How b) Who
 c) Where d) What

8. A crocodile was lurking just below the surface. (Select the correct synonym for the underlined word)

- a) sneaking b) moving
 c) swimming d) crawling

9. Mr. Das always _____ a tiffin of home-cooked food to the office.

- a) carry b) is carrying
 c) have carried d) carries

10. The police tried to _____ the gun from him.

- a) cease b) sneeze
 c) seize d) crease

MATHEMATICS

11. When two negative integers are added we get a _____.

- a) positive integer b) negative integer
 c) whole number d) natural number

12. The measure of the complement of 78° is _____.

- a) 18° b) 102°
 c) 22° d) 12°

13. The mode of the following set of numbers 1, 2, 3, 2, 1, 5, 6, 1 is _____.

- a) 3 b) 1
 c) 2 d) 5

14. If all the three sides of a triangle are equal, the triangle is called a/an _____ triangle.

- a) scalene b) equilateral
 c) isosceles d) right angled

15. By which congruence property, the two given triangles are congruent?

- a) SSS property b) SAS property
 c) RHS property d) ASA property

16. The multiplicative identity for integers is _____.

- a) 1 b) 0
 c) -1 d) 10

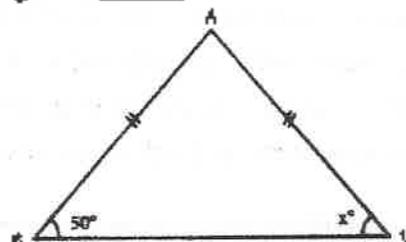
17. The reciprocal of $2\frac{3}{4}$ is _____.

- a) $\frac{4}{11}$ b) $\frac{11}{4}$
 c) $\frac{3}{8}$ d) $\frac{4}{3}$

18. $5.01 + 6.02 + 8.91 =$ _____

- a) 19.42 b) 19.94
 c) 19.00 d) 18.94

19. The measure of the angle x in the given figure is _____.



- a) 40° b) 45°
 c) 50° d) 60°

20. A coin is tossed once. The probability of getting a tail is _____.

- a) 1 b) $\frac{1}{2}$
c) 2 d) 0

SCIENCE

21. Bile plays an important role in the digestion of _____.

- a) proteins b) starch
c) fats d) enzymes

22. When a drop of vinegar solution is put on blue litmus paper, it turns _____.

- a) yellow b) blue
c) green d) red

23. Which one of the following is an autotroph?

- a) Lichens b) Algae
c) Fungus d) Cuscuta

24. The air which is over a flame feels hotter because hot air moves in the _____ direction.

- a) downward b) eastward
c) upward d) sideways

25. The acid secreted in our stomach is _____.

- a) hydrochloric acid b) phosphoric acid
c) sulphuric acid d) nitric acid

26. The false feet of Amoeba are used for _____.

- a) movement only b) exchange of gases only
c) capturing food only d) capturing food and movement

27. What is the SI unit of temperature?

- a) Kelvin b) Fahrenheit
c) Celsius d) Pascal

28. The most commonly used natural indicator is _____.

- a) orange juice b) China rose
c) hibiscus d) litmus

29. The process of depositing a layer of zinc over iron is known as _____.

- a) electrolysis b) fertilization
c) ionization d) galvanization

30. Which of the following is not a chemical change?

- a) Digestion of food b) Formation of steam
c) Curdling of milk d) Burning of coal

HISTORY

31. The jewel-studded peacock throne was used by _____.

- a) Akbar b) Babur
c) Shah Jahan d) Aurangzeb

32. Zhyauddin Barani a _____ century chronicler wrote his first chronicle in 1355.

- a) 11th b) 14th
c) 20th d) 19th

33. The only woman ruler who ruled the Delhi Sultanate from 1236 – 1240 AD was _____.

- a) Nur Jahan b) Roshanara Begum
c) Mumtaz Mahal d) Razia Sultan

34. Shivaji's council of eight ministers was known as _____.

- a) Lok Seva Mandal b) Ashtapradhan Mandal
c) Pradhan Mandal d) Stree Mandal

35. The most powerful Chola ruler was _____.

- a) Rajendra I b) Vijayalaya
c) Rajaraja I d) Rajadhiraja

36. The Chief Minister and other ministers are appointed by the _____.

- a) Prime Minister b) Governor
c) Councillor d) Mayor

37. In 2001, the mid-day meal scheme was first introduced in _____.

- a) Uttar Pradesh b) Kerala
c) West Bengal d) Tamil Nadu

38. PHC stands for _____.

- a) Prime Human Centre b) Public Healthcare Centre
c) Primary Healthcare Centre d) Primary Hospital Centre

39. The first Indian woman to write an autobiography was _____.

- a) Kiran Bedi b) Santosh Yadav
c) Bachendri Pal d) Rashisundari Devi

40. A law passed in the year _____ ensured legal protection for women against domestic violence.

- a) 2004 b) 2006
c) 2002 d) 2008

GEOGRAPHY

41. Which one of the following is a basic life support system?

- a) Transportation b) Monsoon
c) Environment d) Ozone

42. The domain of water is referred to as _____.

- a) Hydrosphere b) Mesosphere
c) Lithosphere d) Troposphere

43. As we go up the layers of the atmosphere, the pressure _____.

- a) increases b) decreases
c) remains the same d) inflates

44. When is the world Environment Day celebrated every year?

- a) 25th December b) 5th July
c) 5th June d) 15th January

45. Which one of the following is not a threat to the environment?

- a) Growing population b) Growing plants
c) Growing industries d) Urbanization

46. Generally the warm ocean currents originate near the _____.

- a) equator b) poles
c) Gulf Stream d) oceans

47. Any natural mass of mineral matter that makes up the earth's crust is called a _____.

- a) road b) mountain
c) rock d) slate

48. Which of the following layers of the atmosphere is free from clouds?

- a) Thermosphere b) Troposphere
c) Mesosphere d) Stratosphere

49. The process of transformation of rocks from one form to another is known as the _____.

- a) rock cycle b) water cycle
c) food cycle d) road cycle

50. Ox bow lakes are found in _____.

- a) river valleys b) deserts
c) glaciers d) beach areas

52. The bark of this plant gives us a medicine quinine for the treatment of malaria.

- a) cinchona b) sapodilla
c) balsam d) iris

53. Name the phobia - fear of heights.

- a) achluophobia b) acrophobia
c) gamophobia d) pyrophobia

54. Name the author of the book 'The God of Small Things.'

- a) Khalid Hosseini b) Salman Rushdie
c) Charles Dickens d) Arundhati Roy

55. The art of folding paper into shapes representing objects is called _____.

- a) ikigai b) calligraphy
c) origami d) kintsugi

56. Which country recently hosted the 2023 Women's Cricket World Cup?

- a) India b) Australia
c) England d) New Zealand

57. Name the social media company that recently changed its name to reflect a new focus on the metaverse?

- a) Twitter b) Facebook
c) Instagram d) Snapchat

58. In recent years, which Goan village became the first to achieve 100% Covid-19 vaccination for its eligible population?

- a) Aldona b) Siolim
c) Assagao d) Cansaulim

59. What is the name of the recent mission launched by SpaceX to send civilians to space?

- a) Artemis b) Tianwen 2
c) Chandrayaan d) Inspiration 4

60. Which city was recently announced as the host of the 2023 Summer Olympics?

- a) Brisbane, Australia b) Paris, France
c) Los Angeles, United States d) Tokyo, Japan

G.K. / CURRENT AFFAIRS

51. Name the animal that can break off its tail to escape from the grip of a predator.

- a) snake b) chameleon
c) lizard d) pangolin