

DON BOSCO HIGH SCHOOL, PANJIM
DON BOSCO COMPETITIVE ADVANTAGE TEST (DB-CAT) 2024-25
27 FEBRUARY 2025
CLASS V

A. QUESTION PAPER RELATED INSTRUCTIONS

Before you begin, check if all 80 questions have been printed on your question paper.

DB-CAT 24 - 2025 consists of a total of 80 questions as follows:

ENGLISH – Q Nos. 1-15

MATHEMATICS- Q Nos. 16-30

SCIENCE - Q Nos. 31-45

ENVIRONMENTAL STUDIES – Q Nos. 46 -65

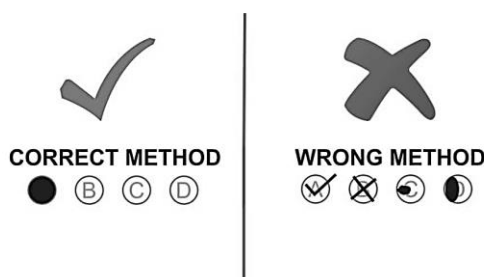
G.K AND CURRENT AFFAIRS Q Nos. 66 – 75

LOGIC AND REASONING – Q Nos. 76-80

1. Each question carries 1 mark.
2. Total duration of the test is 90 minutes
3. All questions are compulsory.
4. There is no negative marking for incorrect answers.
5. You may take away the question paper after the examination.

B. OMR SHEET RELATED INSTRUCTIONS:

1. Begin by writing your name and other required information in the space provided at the top of the OMR sheet.
2. Your signature must be entered in the box labelled at Candidate's Signature.
3. Each Multiple Choice Question (MCQ) has four options a) b) c) and d), of which only one is the correct answer.
4. Before marking your answers, carefully read each question and review all four options. Changing answers is not permitted.
5. Once you are sure of your answer, use a dark pen (**BLUE OR BLACK BALL POINT PEN**) to mark your answers on the provided OMR sheet. Answers marked with pencil will not be accepted
6. Fully darken the bubble corresponding to your chosen option, as shown in the example below.



7. Responses with more than one darkened bubble or those not darkened as per instructions will be considered invalid.
8. Avoid making any stray marks on the sheet.
9. No rough work should be done on the OMR sheet. All rough work must be done in the space provided on the question paper. Additional paper for rough work will be provided by the invigilator on request.
10. Do not use a marker or whitener on the OMR sheet.

15. Which sentence contains an Adverb of Manner?
- a) The team will play tomorrow. b) She arrived early to the party.
c) The birds flew gracefully. d) He sat there all day.

MATHEMATICS

16. Which of the given options will complete the given pattern?

2Z5, 7Y7, 14X9, 23W11, 34V13, _____?

- a) 27U24 b) 47V14
c) 45U15 d) 47U15

17. How many vertices are there in a heptagon?

- a) 4 b) 6
c) 7 d) 9

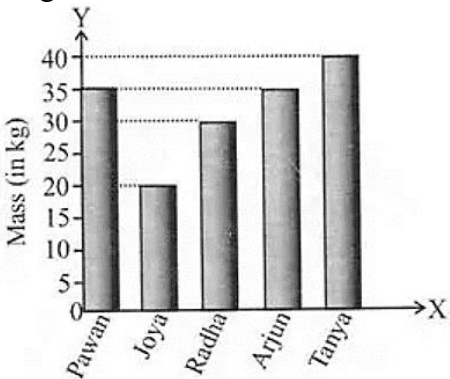
18. The correct net for a cylinder is _____.

- a)  b) 
c)  d) 

19. Two different lines in a plane having a common point are called _____.

- a) Intersecting lines b) Parallel lines
c) Co-planar lines d) Concurrent lines

20. The bar graph shows the mass of 5 children. What is the difference between the mass of the heaviest child and the lightest child?



- a) 5kg b) 10kg
c) 15kg d) 20kg

21. Rajesh bought 13kg of peanuts. He saved Rs.195 by using a store coupon. How much did he save per kilogram of groundnuts?

- a) Rs. 10 b) Rs. 15
c) Rs. 18 d) Rs. 20

22. A teapot holds 1800ml of tea. How many people can be served if each person wants 2 cups of tea, each having a capacity of 150ml?

- a) 2 b) 4
c) 6 d) 7

23. Which of the following statements is correct?

- a) Every prime number is odd. b) The sum of two odd numbers is even.
c) The sum of two odd numbers is odd. d) Zero is an odd number.

24. If the perimeter of a square is 52cm, then find the area of the square.

- a) 163cm² b) 166cm²
c) 169cm² d) 172cm²

25. The amount of surface enclosed by a closed figure is called _____.

- a) Perimeter
- b) Area
- c) Volume
- d) Circle

26. Evaluate: $9 \times (121 - 8)$

- a) 72
- b) 113
- c) 1017
- d) 1089

27. Which one of the following is not a composite number?

- a) 57
- b) 92
- c) 97
- d) 104

28. Arrange the following decimal numbers in ascending order:

0.44, 4.44, 0.0044, 0.044

- a) 0.44, 0.0044, 0.044, 4.44
- b) 0.0044, 0.044, 0.44, 4.44
- c) 4.44, 0.44, 0.044, 0.0044
- d) 0.0044, 0.44, 4.44, 0.044

29. Krish is performing yoga with his head down and legs up in the air. His face is towards the west. In which direction will his left hand be?

- a) North
- b) South
- c) East
- d) West

30. The heights of Rohit, Rahul, Binesh and Anup are 1.61m, 162cm, 1600mm and 1640mm, respectively. Who is the tallest of them all?

- a) Rohit
- b) Rahul
- c) Binesh
- d) Anup

SCIENCE

31. Which of the following seeds cannot be easily split into two equal halves vertically?

- a) Masoor
- b) Beans
- c) Moong
- d) Rice

32. Name the main process by which water moves from the Earth's surface to the atmosphere.

- a) Washing cars
- b) Evaporation
- c) Boiling
- d) Runoff

33. Why does a log of wood float on water?

- a) Because it is less dense than water
- b) Because of its shape
- c) Because it is more dense than water
- d) Because it is smaller than the water

34. Which TWO of the following are examples of blowing air on objects to cool them down?:

- i) Blowing on tea in a restaurant
- ii) Blowing on spectacles to clean them
- iii) Blowing on your palms in winter
- iv) Blowing on freshly boiled potatoes

- a) ii) and iii)
- b) i) and iv)
- c) i) and ii)
- d) iii) and iv)

35. How are mosquitoes able to sense our presence?

- a) The smell of our body
- b) The heat of our body
- c) Both a and b
- d) None of the above

36. What is the use of a seed?

- a) To store food and nutrients for the new plant
- b) To make food tasty
- c) To make the roots go into the ground
- d) To give colour to flowers

37. Which of the following factors contributes to spoilage of mangoes?

- a) temperature
- b) ants
- c) darkness
- d) plucking them raw

38. Which of the following birds does NOT have eyes on either side of its head?
- a) pigeon
 - b) owl
 - c) eagle
 - d) sparrow
39. How does stagnant water affect mosquito breeding?
- a) It has no effect on mosquito breeding.
 - b) It depends on how dirty the water is.
 - c) It increases the rate of mosquito breeding.
 - d) It decreases the rate of mosquito breeding.
40. What type of relationship exists between the snake charmer and snake?
- a) Both benefit from each other.
 - b) Snakes harm the snake charmer.
 - c) Snakes benefit and snake charmer is unaffected.
 - d) Snake charmer hunts the snake.
41. What is the role of hydrochloric acid in the stomach?
- a) To break down proteins into amino acids
 - b) To absorb nutrients into the bloodstream
 - c) To kill bacteria in ingested food
 - d) To produce digestive enzymes
42. Anaemia is a condition caused due to lack of _____ in the blood.
- a) Albumin
 - b) Potassium
 - c) Magnesium
 - d) Haemoglobin
43. Why do astronauts receive heavy training?
- a) To find new sources of energy
 - b) To see Earth from space
 - c) To become famous
 - d) To adapt to the changes in gravity
44. Why is it important to chew food before swallowing?
- a) To mix food with saliva for better taste
 - b) To swallow quickly
 - c) To check if it is properly cooked
 - d) None of the above
45. Why should we conserve natural resources?
- a) For making electricity
 - b) To earn more by selling them later
 - c) For future generations
 - d) To reduce costs

SOCIAL SCIENCE (EVS)

46. What is one major challenge people face when they move from their villages to cities?
- a) They get a lot of money easily.
 - b) They struggle to find work and shelter
 - c) They enjoy better health.
 - d) They become smarter.
47. What do the carvings on old walls and monuments tell us?
- a) The cost of construction
 - b) The future of the building
 - c) The history and culture of the past
 - d) The names of modern artists
48. Why do houses in hilly areas have sloping roofs?
- a) To make their homes look nice
 - b) To allow rain and snow to slide off easily.
 - c) To allow sunlight in
 - d) To store water on the roof
49. Which of the following is a use of forests?
- a) Providing oxygen
 - b) Reducing pollution
 - c) Supplying wood and medicinal plants
 - d) All of the above
50. If the garbage collectors and other cleaners go on strike in a city, _____
- a) residents of the city will start cleaning the streets and collecting garbage
 - b) the city will remain clean
 - c) diseases will begin to spread
 - d) nothing will change

51. If the government wants a village situated in a forest to leave their houses so that they can use the land to build a dam, then the government should _____
- a) give them money to buy a new house in another place b) provide the villagers with jobs since they depended on the forests for their livelihood
- c) Find them a temporary place to live and a temporary job until they can buy a new house and find a new job d) both a and b
52. Why do seasonal labourers keep moving from one place to another?
- a) They want to explore new cultures. b) They prefer to live in temporary shelters.
- c) In search of work d) They dislike staying in one place.
53. What is the main source of water in most villages?
- a) Sea water b) Underground water from wells and handpumps
- c) Packaged drinking water d) Water from air
54. If a fort has both strong walls and secret tunnels, what does this indicate about its builders?
- a) They enjoyed creating complex structures. b) They knew how to prepare for attacks and escapes
- c) They liked to make good-looking buildings d) They were strong men.
55. What should people do during an earthquake to stay safe?
- a) Stand under a tree b) Run outside immediately
- c) Go to the terrace or rooftop d) They should remain in the building
56. Fossil fuels like petrol and diesel are formed from which of the given alternatives?
- a) rocks b) decayed plants and animals over millions of years
- c) sand d) flowing water
57. The fishing industry in Goa is important because of which of the following reasons?
- a) It provides export goods and local employment b) It is a source of fuel
- c) It uses advanced machinery d) It supports mining activities
58. Why are houses in Ladakh built with small windows?
- a) To make the house look more beautiful. b) To allow more sunlight to enter the house.
- c) To keep the house warm by reducing heat loss. d) To let in fresh air and cool the house.
59. Which of these is NOT a natural resource?
- a) Water b) Air
- c) Coal d) Plastic
60. Which industry in Goa is closely linked to its beaches?
- a) Fishing b) Tourism
- c) Textile d) Mining
61. Which of these is an example of a non-renewable resource?
- a) Solar energy b) Coal
- c) Wind energy d) Water
62. Which of these is an example of a mineral resource?
- a) Sand b) Wood
- c) Gold d) Cotton
63. What is the main cause of pollution in natural resources like air and water?
- a) Reckless cutting of trees b) Human activities such as industrial waste and vehicle emissions
- c) Growth of plants d) Natural weather changes

77. A train leaves the station at 10:15 AM and reaches its destination at 1:45 PM. How long does the journey take?

a) 2 hours 8 mins

b) 3 hours 30 mins

c) 3 hours 20 mins

d) 3 hours

78. A farmer wants to sell mangoes and earn 3000 rupees. If he sells each mango for 12 rupees, how many mangoes does he need to sell?

a) 250

b) 30

c) 120

d) 60

79. Jack is Mia's uncle. Mia's mother is Jack's sister, and Jack is married to Mia's father's sister. Who is Mia to Jack?

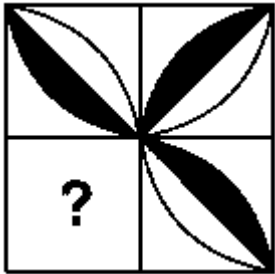
a) Jack's daughter

b) Jack's niece

c) Jack's sister

d) Jack's aunt

80. Observe the below figure and identify the missing part.



*****Space for Rough work *****