



F-CAT 05

FORTNIGHTLY CHILD ASSESSMENT TEST

Class 9<sup>th</sup>

READ THE FOLLOWING INSTRUCTIONS:

1. All questions are compulsory.
  2. Submit your Sheets by 6:00 pm
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1. The fusion is the process in which
    - a. Liquid changes into solid
    - b. Solid changes into liquid
    - c. Solid changes into gas
    - d. Gas changes into solid
  2. The ice floats on water because
    - a. Its density is more than water
    - b. Its density is less than water
    - c. It has less intermolecular space
    - d. None of the above
  3. The density of water is maximum at
    - a. 0°C
    - b. 100°C
    - c. 4°C
    - d. 273K
  4. Which among the following can exist in vapour state?
    - a. Oxygen
    - b. Hydrogen
    - c. Carbon dioxide
    - d. Water
  5. Cooking of rice at higher altitudes is difficult because
    - a. Water boils at 100°C
    - b. Water boils >100°C
    - c. Boiling point of water is constant

- d. None of them
6. Define the following:
- Latent heat of vapourisation
  - Latent heat of fusion
7. Define the following:
- Condensation
  - Sublimation
8. What is a mixture?
9. What is a solution?
10. Define the following terms:
- Hypotonic solution
  - Hypertonic solution
  - Isotonic solution
11. Define the following terms (5 marks)
- Motion
  - Distance
  - Displacement
  - Acceleration
  - Velocity
12. State and prove law of conservation of momentum.(3 marks)
13. Convert 17 m/s into km/h (1 mark)
14. Write units of following :
- Acceleration
  - Momentum
  - Velocity
  - Mass
15. What is the synonym of word “Admire”?
- Loving
  - Praise
  - Change
  - Declare
16. What is the synonym of word “Beautiful”?
- Brilliant
  - Lovely
  - Loving
  - Kind
17. Which punctuation marks is missing in this sentence: Have you downloaded the information
- Full stop (.)

- b. Question mark (?)  
 c. Coma (,)  
 d. Exclamation mark (!)
18. Which punctuation mark is missing in this sentence: How recklessly he drove
- a. Full stop (.)  
 b. Question mark (?)  
 c. Exclamation mark (!)  
 d. Coma (,)
19. A \_\_\_\_\_ is a joining word such as and, but, yet, or etc. it joins the words or group of words.
- a. Adverb  
 b. Preposition  
 c. Conjunction  
 d. Interjection
20. While walking in a park in your neighbourhood you found a small plastic bag containing some documents and some cash. Write a notice in about 50 words to be put on the park notice board asking the owner to identify and collect it from you. You are Amar/Amrita 9399123456 5 mark
21. What do you think a telebook is? 2 mark
22. How old was Evelyn when she went to the Royal Academy of Music? 2 mark
23. What did Einstein call his desk drawer at the patent office? Why? 2 mark
24. "Toto was a pretty monkey." In what sense is Toto pretty? 2 mark
25. What are the two strange things the guru and his disciple find in the Kingdom of Fools? 2 mark
26. The angles of a triangle are in the ratio 2 : 3 : 4. Find the angles of the triangle. (3)
27. A triangle ABC is right angled at A. L is a point on BC such that  $AL \perp BC$ . Prove that  $\angle BAL = \angle ACB$ . (3)
28. Two lines are respectively perpendicular to two parallel lines. Show that they are parallel to each other. (3)
29. In triangles ABC and PQR,  $\angle A = \angle Q$  and  $\angle B = \angle R$ . Which side of  $\Delta PQR$  should be equal to side AB of  $\Delta ABC$  so that the two triangles are congruent? Give reason for your answer. (2)
30. In triangles ABC and PQR,  $\angle A = \angle Q$  and  $\angle B = \angle R$ . Which side of  $\Delta PQR$  should be equal to side BC of  $\Delta ABC$  so that the two triangles are congruent? Give reason for your answer. (2)
31. A point lies on the x-axis at a distance of 7 units from the y-axis. What are its coordinates? What will be the coordinates if it lies on y-axis at a distance of -7 units from x-axis? (2)
32. Find the coordinates of the point (3)
- (i) \_\_\_\_\_ which lies on x and y axes both.

(ii) whose ordinate is  $-4$  and which lies on y-axis

. (iii) whose abscissa is  $5$  and which lies on x-axis.

33. Taking  $0.5$  cm as  $1$  unit, plot the following points on the graph paper : A  $(1, 3)$ , B  $(-3, -1)$ , C  $(1, -4)$ , D  $(-2, 3)$ , E  $(0, -8)$ , F  $(1, 0)$ . (2)

34. There are four requirements for the production of goods and services. What are they? Explain. (3)

35. What are the items that come under physical capital? (3)

36. Is it important to increase the area under irrigation? Why? (4)

37. What is the difference between multiple cropping and modern farming method? (5)

38. What are the different ways of increasing production on the same piece of land? Use examples to explain. (5)

