

DECCAN COLLEGE
Postgraduate and Research Institute
(Deemed to be University)
Pune 411 006

Entrance Test
GENERAL APTITUDE TEST

PhD

Time: 1 Hr

Marks: 50

Examination Seat No.:

Date: 16 Nov 2022

INSTRUCTIONS:

- i. Each question carries two marks
- ii. All questions are compulsory.
- iii. Return the answer paper to the supervisor before you leave the Examination Hall.

1. Sohan started a business with a capital of Rs. 80000. After 6 months Mohan joined as a partner by investing Rs. 65000. After one year they earned total profit Rs. 20000. What is the share of Sohan in the profit?
 - a. Rs. 5222.2
 - b. Rs. 5777.7
 - c. Rs. 6222.2
 - d. Rs. 6777.7

2. What is the average of the first five multiples of 12?
 - a. 36
 - b. 38
 - c. 40
 - d. 42

3. A mother is twice as old as her son. If 20 years ago, the age of the mother was 10 times the age of the son, what is the present age of the mother?
 - a. 38 years
 - b. 40 years
 - c. 43 years
 - d. 45 years

4. Various terms of an alphabet series are given with one or more terms missing. Select the missing terms from the choices. AZ, GT, MN, ?, YB.
- KF
 - RX
 - SH**
 - TS
5. Poles: Magnet; ? : Battery
- Energy
 - Power
 - Terminals
 - Cells
6. If Ajith writes code for COUNSEL as BITIRAK, how will he write GUIDANCE?
- EOHYZKBB
 - FOHYZJBB
 - FOHZZKAB
 - HOHYBJBA
7. 16384, 8192, 2048, 256, 16, ?
- 11
 - 22
 - 0.5
 - 0.7
8. Kamal pointed to a photograph and says. "The lady in the photograph is my nephew's maternal grandmother." How is the lady in the picture related to Kamla's sister if he has no sister of his own?
- Mother-in-law
 - Cousin
 - Sister-in-law
 - Mother

9. Sunita can type 10 pages in 5 minutes. Rashmi can type 5 pages in 10 minutes.

Working together, how many pages can they type in 30 minutes?

- a. 15
- b. 65
- c. 83
- d. 75

10. Find the tense of the sentence- "I shall visit the book fair tomorrow."

- a. simple past
- b. simple present
- c. simple future
- d. future continuous

11. The brain of any computer system is

- a. ALU
- b. Memory
- c. CPU
- d. Control Unit

12. Which of the following is a source of non-verbal communication?

- a. Giving examples
- b. Telling stories
- c. Pictorial representation
- d. Asking questions

13. Soft is related to the sponge. Sharp is related to?

- a. Cut
- b. Knife
- c. Hard
- d. Hammer

14. The sum of the ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?

- a. 4 yrs.
- b. 8 yrs.
- c. 10 yrs.

- d. None of these
15. The only state in India that produces saffron is _____
- Assam
 - Himachal Pradesh
 - Jammu Kashmir
 - Maharashtra
16. Find the wrong number in the sequence: 36, 54, 18, 27, 9, 18.5, 4.5
- 18
 - 18.5
 - 4.5
 - 27
17. Introducing a man to her husband, a woman said, "His brother's father is the only son of my grandfather." How is the woman related to this man?
- Mother
 - Grandmother
 - Sister
 - Daughter
18. A man walked diagonally across a square lot. Approximately, what was the per cent saved by not walking along the edges?
- 20
 - 30
 - 24
 - 33
19. 3 pumps, working 8 hours a day, can empty a tank in 2 days. How many hours a day must 4 pumps work to empty the tank in 1 day?
- 9
 - 10
 - 11
 - 12
20. Find the odd number from 10, 25, 45, 54, 60, 75, 80.
- 25
 - 54
 - 60

21. Which atomic power station in India is built completely indigenously?

- a. Kalpakkam
- b. Narora
- c. Rawatbhata
- d. Tarapore

22. India's first satellite is named after:

- a. Aryabhata
- b. Albert Einstein
- c. Kanad
- d. Bhaskara

23. Which of the following was M.F. Husain associated with?

- a. Music
- b. Sculpture
- c. Painting
- d. Film making

24. Philology is the:

- a. Study of bones
- b. Study of Muscles
- c. Study of architecture
- d. Science of Language

25. Which of the following factors are responsible for the rapid growth of sugar production in south India as compared to north India?

- I. Higher per acre field of sugarcane
 - II. Higher sucrose content of sugarcane
 - III. Lower labour cost
 - IV. Longer crushing period
- a. I and II
 - b. I, II and III
 - c. I, III and IV
 - d. I, II and IV