**PH.D. COMMON ENTRANCE TEST**­­

**GENERAL AND RESEARCH APTITUDE**

**Application No:**

**PART A**

**Duration: 60 minutes Maximum Marks: 50**

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| **Instructions:**1. **This entrance test question paper is not to be taken out of the examination hall**
2. **Part A Question paper consists of Section A and Section B**
3. **Section A consists of 30 MCQs carrying 1 Mark each. Put a tick (√) mark against the correct answer.**
4. **Section B consists of Descriptive questions carrying 5 marks each. Restrict your answer to 500 words. Additional plain sheets have been attached to the question paper to answer Section B**
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**SECTION – A**

**Answer the following by ticking against the correct answer: 30\*1=30**

1. Identify the correct meaning of the Idiom: AT ONCE BECK AND CALL
2. To attend a call
3. To be helped by someone
4. To be useful to someone
5. To be dominated by someone
6. She is a woman of STERLING qualities means.
7. Interesting
8. Genuine
9. Irritating
10. Exciting
11. Identify the proper grammatical sentence.
12. If he wins the prize I would be very happy
13. If he were to win the prize, I will be very happy
14. If he was to win the prize, I would be very happy.
15. If he were to win the prize, I would be very happy.

1. Pick the sentence of correct usage of Tense
2. He seldom has fatty food
3. He is seldom having fatty food
4. He has had seldom fatty food.
5. He seldom had fatty food.

1. About six workers were \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in a factory accident and safety equipment was \_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Injured, destroyed
3. In injury, destroy
4. Injuring, destroyed
5. Injured, destroying
6. The New Year was ushered in with many wishes all around the place in Bangalore. A prominent organization highlighted **’Celebrate Happiness’.** Identify the parts of speech.
7. Celebrate is the verb; happiness in the noun
8. Celebrate is the noun; happiness in the verb
9. Both are verbs
10. Both are nouns.
11. Of the six members of the panel sitting in a row X is to the left of Q, but right of P. Y is on the right of Q, but is on the left of Z, Z is to the left of R. Find the members who are in the extreme
12. Q, Z
13. X, Z
14. P, R
15. Q, Y

1. If PALE is coded as 2134, EARTH is coded as 41590 how is PEARL coded
2. 29530
3. 24153
4. 25413
5. 25430
6. Ashwin moved to his Northwest side for 2 km. From there he turned 90 degrees Clockwise and moved 2 km. From there he turned 90 degrees clockwise and travelled 2 km, then he would be in which direction from the original position.
7. SOUTH EAST
8. NORTH EAST
9. SOUTH WEST
10. NORTH WEST
11. John’s mother was 3 times as old as John five years ago. After five years, she will be twice as old as John. How old is John today?
12. 10
13. 15
14. 20
15. 25

1. The Mean of 150, 80, 120, 60,75,125,95,115,130 is
2. 105.5556
3. 102.223
4. 124.334
5. 132.556

 12. At the start of each research project a researcher has to decide on

1. How many books to order from the library
2. The journal the report will be published in
3. How many participants to include
4. What research question will be answered?

 13. Qualitative research is associated with.

1. A structured rigid methodology
2. Emphasis on greater sample size
3. Unstructured flexible and open methodology
4. Measurement of variables

 14. Processing and displaying data do not depend on

1. Your computer skills
2. The way you want to communicate the findings
3. Ethical considerations
4. The type of information

 15. A design which is an arrangement of conditions for collection and analysis of data in a manner that aims to combine relevance to the research purpose with economy in procedure is called:

1. Research Design
2. Sampling Design
3. Operational Design
4. Statistical Design

16. Method of research involving collection of data directly from a population or a sample thereof at particular time

1. Experimental Research
2. survey
3. Exploratory research
4. Applied research

 17. Research methodology is all of these except:

1. Systematically solve the research problem
2. A science of studying how research is done scientifically
3. Having wide scope is greater than research methods
4. All about interpreting the results

 18. How important are ethical issues to a research project?

1. They are very important at all stages of the research work
2. They are somewhat important and can be considered at the final stages of the project.
3. They are important but are not something I need to consider until I have finished collecting my data
4. They are of little importance and depend on the topic of the study

 19. I multiplied a natural number by 18 and another by 21 and added the products. Which one of the following could be the sum

1. 2007
2. 2008
3. 2006
4. 2002

 20. Cost price of an article is 64% of the marked price. Gain % after allowing a discount of 12% on the marked price is

1. 37.5% of the marked price
2. 48% of the marked price
3. 50.5% of the marked price
4. 52% of the marked price

 21. The average of 3 consecutive odd numbers is 12 more than 1/3rd of the First of these numbers. What is the last of the three numbers.

1. 15
2. 17
3. 19
4. 21

22. Sum of two numbers is 24 and their product is 143. The sum of their squares is

1. 296
2. 295
3. 290
4. 228

23. A summary presentation of values of a variable according to their magnitude individually or in groups is

1. Array
2. Class interval
3. Frequency Distribution
4. Array

24. Find the mode of 22, 33, 44, 22, 33, 44,22,33,44,22

1. 22
2. 33
3. 44
4. All of these

25. If Arithmetic mean is 12, and mode is 13, find median

1. 12.33
2. 14.33
3. 16.33
4. 18.33

26. The seven priorities of the Indian Budget 2023-24 are called as:

1. Saptagiri
2. Saptarishi
3. Saptapadi
4. Saptashrungi

27. The study of extinct animal is called

1. Herpetology
2. Ornithology
3. Geology
4. Paleontology

28. Which of the following cities was recently added to UNESCO's Creative Cities Network (UCCN)?

1. Gwalior
2. Indore
3. Junagadh
4. Rishikesh

29. Kambala Festival is celebrated in which of the following states?

1. Tamil Nadu
2. Karnataka
3. Maharashtra
4. Assam

 30. The gigantic tsunami waves are devastating to life and property. Past precedent has shown that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is preceded by \_\_\_\_\_\_\_\_\_\_\_\_.

1. Tsunami waves, strong earthquake
2. Tsunami waves, strong earthquake
3. strong earthquake, Tsunami waves
4. mild earthquake, Tsunami waves

**SECTION B**

**Answer any FOUR of the following Questions: 5 x 4 = 20**

1. Illustrate the qualities required for a Researcher from your perspective

2. Analyse the Objectives and the Outcomes of a good Research

3. Propose a research topic and explain how you arrived at the same.

4. Present briefly the most important parts of descriptive statistics justifying their benefits in research work.

5. Sudha is aspiring to establish an *Organic Food Store* in the middle of the city*.* Before committing to the idea and the place, she wants to run a survey in the locality and she has approached you to help her in this portion of the work. Explain how you will help her.

6. Research ethics are the backbone of reliable research. Elaborate on how the research scholar and the research supervisor can uphold them with two instances for each.

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