

PET-2017 (Research & Aptitude) Section-II (Common to all Disciplines)

Roll No:

Date..... **25 JUN 2017**

Signature of the Candidate:

Choose the most Appropriate Option	
Q1	A good researcher lays his hands on A) Any area, as long as manpower and funds are available in plenty <input checked="" type="checkbox"/> B) A specific area and tries to understand it in minute details C) Several areas and tries to explore them at fundamental level D) All of the above
Q2	Which technique does help in answering-which independent factor(s) has/have led to a particular outcome? <input checked="" type="checkbox"/> A) Correlation B) Regression C) Coefficient of Variation D) Standard Deviation
Q3	Which of the following statement is correct A) Discoveries are researches <input checked="" type="checkbox"/> B) Researches lead to discovery C) Invention and research are related D) None of the above
Q4	_____ is the most widely used means of dispersion. A) Median <input checked="" type="checkbox"/> B) Variance C) Harmonic mean D) None of the above
Q5	Research design of a study should not include- A) Objectives B) Hypothesis <input checked="" type="checkbox"/> C) Findings D) Blue print of research
Q6	Questions in which only two alternatives are possible is called A) Multiple choice questions <input checked="" type="checkbox"/> B) Dichotomous questions C) Open ended questions D) Structured questions



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Q7	Questions which allow only a few alternative way of answering are called A) Open ended questions B) Unstructured questions <input checked="" type="checkbox"/> C) Structural questions D) Dichotomous questions
Q8	A reasoning where we start with certain particular statements and conclude with a universal statement is called (A) Deductive Reasoning <input checked="" type="checkbox"/> (B) Inductive Reasoning (C) Abnormal Reasoning (D) Transcendental Reasoning
Q9	In a three digit number, the hundred digit is 2 more than the tens digit and the units digit is 2 less than the tens digit. If the sum of the digits is 18, find the number? A) 468 B) 753 C) 684 <input checked="" type="checkbox"/> D) None of these
Q10	$2003 * 2004 - 2001 * 2002 = ?$ A) 8000 <input checked="" type="checkbox"/> B) 8010 C) 8020 D) 8040
Q11	The amount of water (in ml) that should be added to reduce 9 ml. Lotion, containing 50% alcohol, to a lotion containing 30% alcohol, is? A) 3 B) 4 C) 5 <input checked="" type="checkbox"/> D) 6
Q12	One man want to build a wall. The length and breadth of the wall are 20 cm and 30 cm respectively. He need 35 bricks for one square centimeter then how many bricks he need? A) 21,500 B) 30,000 <input checked="" type="checkbox"/> C) 21,000 D) 20,000
Q13	If y exceeds x by 20%, then x is less than y by? A) 16% B) 16 1/3 % <input checked="" type="checkbox"/> C) 16 2/3 % D) 16 3/5 %



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Q14	(?) , 19, 37, 61, 91, 127, 169 A) 17 B) 13 C) 11 <input checked="" type="checkbox"/> D) 7
Q15	What is the probability of getting a sum 9 from two throws of a dice? A) 1/6 B) 1/8 <input checked="" type="checkbox"/> C) 1/9 D) 1/12
Q16	A speaks truth in 75% of cases and B in 80% of cases. In what percentage of cases are they likely to contradict each other, narrating the same incident A) 30% <input checked="" type="checkbox"/> B) 35% C) 40% D) 45%
Q17	To complete a work A and B takes 8 days, B and C takes 12 days, A, B and C takes 6 days. How much time A and C will take A) 24 days B) 16 days C) 12 days <input checked="" type="checkbox"/> D) 8 days
Q18	Choose the most appropriate word opposite to RELINQUISH A) Abdicate B) Renounce <input checked="" type="checkbox"/> C) Possess D) Deny
Q19	Substitute by the right word "That which cannot be corrected" A) Unintelligible B) Indelible C) Illegible <input checked="" type="checkbox"/> D) Incurable
Q20	A style in which a writer makes a display of his knowledge <input checked="" type="checkbox"/> A) Pedantic B) Verbose C) Pompous D) Ornate



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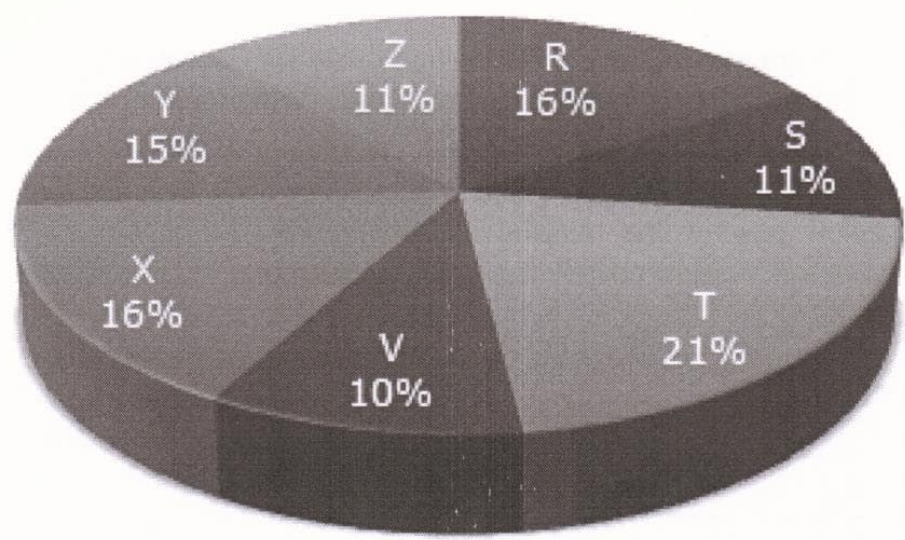
	DIRECTIONS FOR QUESTIONS 21-23: Pick out the most appropriate word from amongst the words given below each sentence to complete it meaningfully.
Q21	The counsel urged the court to down the obnoxious law. A) cut B) scratch C) cancel <input checked="" type="checkbox"/> D) strike
Q22	He quickly glanced the book to find what it said about the Indian economy. A) to B) through <input checked="" type="checkbox"/> C) at D) over
Q23	The local officials the Minister of the situation. A) explained <input checked="" type="checkbox"/> B) apprised C) told D) intimidated
	Read the passage carefully and answer the question Q24-26 based on this- Now India's children have a right to receive at least eight years of education. The gnawing question is whether it will remain 'on paper' or 'become a reality'. One hardly needs a reminder that this right is different from the others enshrined in the Constitution, that the beneficiary – a six year old child cannot demand it, nor can she or he fight a legal battle when the right is denied or violated. In all cases, it is the adult society which must act on behalf of the child. In another peculiarity, where a child's right to education is denied, no compensation offered later can be adequate or relevant. This is so because childhood does not last. If a legal battle fought on behalf of a child is eventually won, it may be of little use to the boy or girl because the opportunity missed at school during childhood cannot serve the same purpose later in life. This may be painfully true for girls because our society permits them only a short childhood, if at all. The Right to Education (RTE) has become law at a point in India's history when the ghastly practice of female infanticide has resurfaced in the form of feticides. This is "symptomatic of a deeper turmoil" in society compounding the traditional obstacles to the education of girls. Tenacious prejudice against the intellectual potential of girls runs across our cultural diversity and the system of education has not been able to address it.
Q24	Which one of the following statements conveys the inference of the passage? A) The society has a tenacious prejudice against the intellectual potential of girls. B) Adults cannot be relied upon to fight on behalf of children for their Right to Education. C) The legal fight to get education for children is often protracted and prohibitive. <input checked="" type="checkbox"/> D) There is no sufficient substitute for education received in childhood.



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- Q25 Which one of the following statements conveys the key message of the passage?
- A) India has declared that education is compulsory for its children.
 - B) Adult society is not keen on implementing the Right to Education.
 - C) The Right to Education, particularly of a girl child, needs to be safeguarded.
 - D) The system of education should address the issue of right to education.
- Q26 With reference to the passage, consider the following statements :
1. When children are denied education, adult society does not act on behalf of them.
 2. Right to Education as a law cannot be enforced in the country.
- Which of the statements given above is/are correct?
- A) 1 only
 - B) 2 only
 - C) Both 1 and 2
 - D) Neither 1 nor 2
- Q27 Substitute the underlined part with correct phrase given below:
They were all shocked at his failure in the competition.
- A) were shocked at all
 - B) had all shocked at
 - C) had been all shocked on
 - D) No correction required

Study the following pie-chart and the table and answer the questions Q28-Q31 based on them.
Proportion of Population of Seven Villages in 1997



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Village	%Population Below Poverty Line
X	38
Y	52
Z	42
R	51
S	49
T	46
V	58

- Q28 If the population of village R in 1997 is 32000, then what will be the population of village Y below poverty line in that year?
- A) 14100
 B) 15600
 C) 16500
 D) 17000
- Q29 The ratio of population of village T below poverty line to that of village Z below poverty line in 1997 is:
- A) 11 : 23
 B) 13 : 11
 C) 23 : 11
 D) None of the above
- Q30 Find the population of village S if the population of village X below poverty line in 1997 is 12160.
- A) 18500
 B) 20500
 C) 22000
 D) 26000
- Q31 If in 1998, the population of villages Y and V increase by 10% each and the percentage of population below poverty line remains unchanged for all the villages, then find the population of village V below poverty line in 1998, given that the population of village Y in 1997 was 30000.
- A) 11250
 B) 12760
 C) 13140
 D) 13780
- Each one of the following questions **Q32-33** consists of a related pair of words, followed by four pairs of words. Choose the pair that best represents a similar relationship to the one expressed in the original pair of words.







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Q32	BINDING : BOOK <input checked="" type="checkbox"/> A) frame: picture B) display : museum C) artist : carpenter D) nail : hammer
Q33	COBBLER : SHOE <input checked="" type="checkbox"/> A) jockey : horse B) contractor : building C) mason : stone D) potter : paint
Q34	Choose the correct option for the underlined part. My <u>opinion for</u> the film is that it will bag the national award. <input checked="" type="checkbox"/> A) opinion to B) opinion about C) opinion on D) No improvement
Q35	Hypothesis concerned with analytical variable is <input checked="" type="checkbox"/> A) Null Hypothesis B) Casual Hypothesis C) Barren Hypothesis D) Analytical Hypothesis
	Select the most appropriate conclusion as drawn from the statements given in Q36-37
Q36	Statement: The oceans are store house of practically every mineral including 238 U92. But like most other minerals it is found in extremely low concentration about 3 grams per 1000 tons of water. Conclusion I: Sea water contains silver and iron. Conclusion II: Gold is found about 3 grams per 1000 tons of water. <input checked="" type="checkbox"/> A) only conclusion I follows B) only conclusion II follows. C) both I and II follow D) neither I nor II follows
Q37	Statement: No new tax has been proposed in the budget of 2011-12. It is still a surplus budget. Conclusion I: The budget of 2011-12 may be considered a good budget. Conclusion II: 2011-12 budget is a surplus budget because no new tax has been proposed. <input checked="" type="checkbox"/> A) only conclusion I follows B) only conclusion II follows. C) both I and II follow D) neither I nor II follows



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<p>Q38</p>	<p>Instruction: Problem consists of three statements. Based on the first two statements, the third statement may be true, false, or uncertain.</p> <p>i) Blueberries cost more than Strawberries. ii) Blueberries cost less than Raspberries. iii) Raspberries cost more than both Strawberries and Blueberries.</p> <p>If the first two statements are true, the third statement is</p> <p><input checked="" type="checkbox"/> A) True B) False C) Uncertain D) None of the above</p>
<p>Q39</p>	<p>Which of the following diagrams indicates the best relation between Women, Mothers and Engineers?</p> <p><input checked="" type="checkbox"/> A) </p> <p>B) </p> <p>C) </p> <p>D) </p>
<p>Q40</p>	<p>The sum of the squares of 3 numbers is 138 while the sum of their product taken 2 at a time is 131, there sum is _____</p> <p>A) 30 B) 40 <input checked="" type="checkbox"/> C) 20 D) None of these</p>

