PART 1: OBJECTIVE

Time Allowed: 25 Minutes

Name: ___________________________ Father’s Name: ___________________________
Roll No. __________________________

Please tick the correct answer. Over writing and cutting is not allowed.

Section 1: Mathematics and Statistics
(4 marks)

1. Which of the following is not a property of quadrilaterals?
   a. A quadrilateral has three diagonal lines
   b. A quadrilateral has four vertices
   c. The sum of the interior angles in a quadrilateral is equal to 360 degrees.
   d. A quadrilateral has four sides

2. From the five numbers listed below, which is the greatest?
   a. 0.00800
   b. 0.022
   c. 0.00004
   d. 0.0197

3. The cost of a book increased from Rs. 600 to Rs. 624. The increase in cost is
   a. 4 %
   b. 24 %
   c. 104 %
   d. 124 %

4. The mode value of the data set “16, 3, 6, 9, 16, 27, 16, 27, 10, 27, 16” is
   a. 27
   b. 16
   c. 16/27
   d. 3
Section 2: Analytical
(4 marks)

1. Six scientists A, B, C, D, E and F are to present a paper each-at a one-day conference. Three of them will present their papers in the morning session before the lunch break whereas the other three will present in the afternoon session. The presentations have to be scheduled in such a way that they comply with the following restrictions: B should present his paper immediately before C’s presentation; their presentations cannot be separated by the lunch break. D must be either the first or the last scientist to present his paper.

In case C is to be the fifth scientist to present his paper, then B must be:

a. Third
b. Second
c. First
d. Fourth

2. B could be placed at any of the following places in the order of presenters EXCEPT.

a. Second
b. Third
c. Fourth
d. Fifth

3. In case F is to present his paper immediately after D presents his paper, C could be scheduled for which of the following places in the order of presenters?

a. Third
b. Fourth
c. Second
d. Fifth

4. In case F and E are the fifth and sixth presenters respectively then which of the following must be true?

a. A is fourth in the order of presenters.
b. A is third in the order of presenters.
c. A is first in the order of presenters.
d. A is fourth in the order of presenters.

Section 3: English
(4 marks)

1. Change the passive voice in to into active voice: the house ---- cleaned -- me every Saturday.

a. Shall, is
b. Will, by
c. will be, by
d. shall be, is
2. Choose the best analogy:

<table>
<thead>
<tr>
<th>TAPESTRY : LOOM</th>
<th>a. Inflation : Poor</th>
<th>b. Plan : Trip</th>
</tr>
</thead>
</table>

3. Choose the best Antonym:

<table>
<thead>
<tr>
<th>EXTRAVAGANCE</th>
<th>a. Economical</th>
<th>b. Luxury</th>
</tr>
</thead>
<tbody>
<tr>
<td>c. Cheap</td>
<td>d. Poverty</td>
<td></td>
</tr>
</tbody>
</table>

4. The pen -- mightier than the sword.

| -- | a. has | b. will be | c. shall be | d. is |

Section 4: Education Subject

(8 marks)

1. A child is starting to show more interest in learning. For example, he spend more time wanting to read books in which he is interested. When does this skill usually develop?

<table>
<thead>
<tr>
<th>--</th>
<th>a. 0 - 3 years old</th>
<th>b. 3 - 5 years old</th>
</tr>
</thead>
<tbody>
<tr>
<td>c. 5 - 7 years old</td>
<td>d. 7 - 10 years old</td>
<td></td>
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</table>

2. In order to assess how a group of students is performing as they learn over the course of the year, what kind of assessment should a teacher use?

<table>
<thead>
<tr>
<th>--</th>
<th>a. Formative assessment</th>
<th>b. Summative assessment</th>
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</thead>
</table>

3. Which approach to math instruction is best tailored to help the teacher engage a kinesthetic learner?

<table>
<thead>
<tr>
<th>--</th>
<th>a. The use of manipulative such as blocks and garboards to teach and reinforce mathematical concepts</th>
<th>b. The use of colorful visual models and vivid animated displays to illustrate new mathematical concepts</th>
</tr>
</thead>
<tbody>
<tr>
<td>c. The use of engaging lectures and Socratic class discussions in which students summarize key information</td>
<td>d. The use of complex logical problems to draw students into new math concepts and illustrate math’s practical importance</td>
<td></td>
</tr>
</tbody>
</table>

4. Which of the following sampling techniques could be used to measure effect of providing free textbooks to students on their learning outcome in Pakistan?

<table>
<thead>
<tr>
<th>--</th>
<th>a. Choosing volunteers students from selected schools to participate</th>
<th>b. Using snowball sampling</th>
</tr>
</thead>
<tbody>
<tr>
<td>c. Listing the individuals by ethnic group and choosing a proportion from within</td>
<td>d. Randomly selecting schools, and then sampling everyone within the school</td>
<td></td>
</tr>
</tbody>
</table>

5. Which of the following is the first step for a good scientific investigation?

<table>
<thead>
<tr>
<th>--</th>
<th>a. Formulating a hypothesis</th>
<th>b. Doing an experiment or research</th>
</tr>
</thead>
<tbody>
<tr>
<td>c. Observing or noticing something interesting</td>
<td>d. Formulating a question</td>
<td></td>
</tr>
</tbody>
</table>
6. **What are the characteristics of a good measuring technique?**

   a. Objectivity  
   b. Reliability  
   c. Usability  
   d. All of these

7. **Which of the following describes an action a teacher might take to modify student behavior through applying Skinner's theory of operant conditioning?**

   a. The teacher places students in small groups that must work together  
   b. The teacher thoroughly explains classroom rules to the students  
   c. The teacher models how to correctly put art supplies away  
   d. The teacher rewards good behavior by giving students a sticker

8. **Ms. Maria has concerns that one of her students is performing below grade level. Which of the following will provide the most accurate and meaningful information on the student's level of performance relative to others of the same age or grade level?**

   a. Standardized test  
   b. Relative grading standard  
   c. Performance assessment  
   d. Formative evaluation
PART 2: SUBJECTIVE

Name: ___________________________ Father’s Name: ___________________________
Roll No. __________________________

Note: Attempt all questions. Attach question paper with your answer sheet

<table>
<thead>
<tr>
<th>Q No.</th>
<th>Question Statement</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Pakistan has introduced Single National Curriculum (SNC) for schools across the country, <em>intending to unite the country's children and</em> to promise uniform educational attainment. Highlight Pros and cons of SNC.</td>
<td>10 (5x2)</td>
</tr>
<tr>
<td>2.</td>
<td>Describe how university teachers can do justice with their teaching, research, advisory and leadership functions.</td>
<td>10 (2.5x4)</td>
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</tbody>
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