Paper Pattern

Program: MS Electrical Engineering

Time Allowed: 3 hours (180 Mins)

Paper Type: 1) Objective (MCQs based) and 2) Subjective

Sections: 1) Verbal 2) Quantitative 3) Analytical Reasoning 4) Subjective

Total Questions: 103

Passing Marks: Objective (60 out of 100), Subjective (10 out of 25)

Details of Sections:

Verbal: 30 questions

Quantitative: 40 questions

Analytical Reasoning: 30 questions

Subjective: 03 questions (Electrical Engineering)

Important Instructions:

- A candidate must score a minimum 60% marks in aggregate to pass the test.
- Answers are to be attempted on the answer sheet, which is being provided separately with the question paper.
- Encircle the most appropriate choice. Multiple selection will be considered an incorrect answer.
- Calculators & Mathematical tables are not allowed.
- Keep your mobile phone turned off. Any mobile phone found active / on will be confiscated and the candidate will be disqualified for the test.

Model Paper

Section I - Verbal

| I) | We | need | i more | men | and | women | of | culture | and | enligh | itenme | nt in | our | society | ; we | have | too |
|----|-----|------|--------|-------|-----|-------|----|---------|-----|--------|--------|-------|-----|---------|------|------|-----|
| ma | any | | amon | g us. | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

A) Pedants B) Philistines

C) Ascetics D) Paragons

2) Many educators argue that a grouping of students would improve instruction because it would limit the range of student abilities in the classroom.

A) heterogeneous

B) Systematic
C) homogeneous

D) Sporadic

Analogies

3) AQUEDUCT : WATER

A) Capillary : saliva B) Esophagus : breath C) Tanker : fluids D) Artery : blood

4) ENZYME : CATALYST

A) Vaccine : allergy
B) Gland : muscle
C) Neuron : corpuscle
D) Bacterium : microbe

Section II – Analytical

Direction: Each question or group of questions is based on a passage or set or conditions. In answering some of the question. It may be useful to draw a rough diagram. For each question, select the best answer choice given.

Question 1-2

In an office each of the nine employees – P, Q, S, T, U, V, W, and X – is to be assigned his or her own mailbox. The boxes, which are all the same size, are arranged in three rows of three boxes each with each box directly above and /or below another box. The boxes area numbered from left to right – 1 to 3 in the top row, 4 to 6 in the middle row, and 7 to 9 in the bottom row. The assignments are subject to the following restrictions.

P is to be assigned box 5.

Q is to be assigned box directly above T's box

R is to be assigned box in the bottom row.

| U is to be assigned the box directly to X is to be assigned the box directly a | | | | | | | | |
|--|---|--|--|--|--|--|--|--|
| 1) X must be assigned a box | | | | | | | | |
| A) 1 C) 3 | B) 2 D) 4 | | | | | | | |
| 2) Which of the following group of t | hree people could be assigned boxes 4,5 and 6 respectively? | | | | | | | |
| A) P, V, and T C) S, P, and T | B) Q, P, and S D) T,Q, and P | | | | | | | |
| Section III – Quantitative | | | | | | | | |
| 1) The average age of a class of 40 average age increases by one year. T | students is 12 years. If the teacher age is also included, the he teacher's age is: | | | | | | | |
| A) 41 years C) 53 years | B) 52 years D) 54 years | | | | | | | |
| 2) Zahid sells a watch to Abrar at a Suhail must pay Rs. 462 for it, the co | gain. Of 10% and Abrar sells it to Suhail at a gain of 5%. If ost price of the watch for Zahid is: | | | | | | | |
| A) Rs. 300 C) Rs. 500 | B) Rs. 400 D) Rs. 600 | | | | | | | |
| , | verage of 45 marks; on re-checking it was found that marks es. After correction these marks were increased by 24 and 36. dent are | | | | | | | |
| A) 47 C) 60 | B) 56 D) 75 | | | | | | | |
| * | wrong answer and scores 2 marks for every correct answer. If exam. and secure 39 marks, how many of them were correct? | | | | | | | |
| A) 27 C) 33 | B) 31 D) 37 | | | | | | | |
| | | | | | | | | |

Section IV – Subjective (Electrical Engineering)

Q#1: Explain the difference between a hub, switch, and router in computer networks?

Q#2: Explain any two multiple access schemes?

Q#3: Explain the process of digitization? Explain the aliasing effect in terms of the sampling theorem.