

Annexure - II

Structure of the Aptitude Test

1. Common aptitude tests will be conducted for admission in classes 9th and 11th. The Test will be based on the syllabus of classes 8th and 10th respectively. Tests will be conducted in English, Hindi, and Punjabi languages.
2. Format of the test -
 - There will be 150 questions for the class IX and XI aptitude tests.
 - Each question will have 1 mark.
 - The aptitude test duration will be 3 (three) hours.
3. The distribution of questions as per subject will be as under for the aptitude test of **class IX**:

Section	Syllabus	Total no. of questions	Marks
A. Language Proficiency: Reading comprehension and language ability English, Punjabi, Hindi (10:10:10)	<ul style="list-style-type: none">● Read and comprehend different types of paragraphs.● Basic language elements like tenses, parts of speech, punctuation, etc.	30	30
B. Mathematics: Basic mathematics based on the syllabus of grade 8 as recommended by the Punjab School Education Board	<ul style="list-style-type: none">● Mensuration● Data Handling● Linear equation in one variable● Quadrilaterals● Profit & Loss● Percentage● Compound interest● Exponents and powers● Graphs	30	30
C. Science: Basic science based on the syllabus of grade 8 as recommended by the Punjab School Education Board	<ul style="list-style-type: none">● Materials: Metals and Non-metals● Cell: Structure and function● Micro-organisms● Chemical effects of electric current● Friction● Sound● Force and Pressure● Light● Reproduction in animals	30	30

D. Social Science: Basic social science based on the syllabus of grade 8 as recommended by the Punjab School Education Board	<ul style="list-style-type: none"> ● Resources- Types & conservation ● Natural resources ● Mineral and energy resources ● Our agriculture ● Major industries ● India under the British rule <ul style="list-style-type: none"> ○ Civil administration ○ East India company ○ National movement (1885-1947) ○ Etc. ● Constitution, law and principles ● Fundamental rights and duties ● Parliament- role and importance ● Judiciary and its jurisdiction 	30	30
E. Logical reasoning	<ul style="list-style-type: none"> ● Visualize shapes and structures based on described dimensions ● Demonstrate how shapes combine with each other by visualizing shapes, and forms ● Reason with signs and shapes; to notice details in graphical presentations quickly. ● Demonstrate perception of the operating principles behind changes in pattern and use the evidence to find what would logically follow 	15	15
F. Verbal reasoning	<ul style="list-style-type: none"> ● Understand concepts hidden in words, with the ability to abstract or generalize beyond mere vocabulary recognition ● Demands a good level of vocabulary 	15	15

4. The distribution of questions as per subject will be as under for the aptitude test of **class XI**:

Section	Syllabus	Total no. of questions	Marks
G. Language Proficiency: Reading comprehension and language ability English, Punjabi, Hindi (10:10:10)	<ul style="list-style-type: none"> ● Read and comprehend different types of paragraphs. ● Basic language elements like tenses, parts of speech, punctuation, etc. 	30	30
H. Mathematics: Basic mathematics based on the	<ul style="list-style-type: none"> ● Real Numbers ● Polynomials 		

<p>syllabus of grade 10 as recommended by the Punjab School Education Board</p>	<ul style="list-style-type: none"> ● Linear equation in two variables ● Arithmetic progression ● Triangles ● Surface area and volume ● Areas related to circles ● Introduction to trigonometry ● Statistics ● Probability 	30	30
<p>I. Science: Basic science based on the syllabus of grade 10 as recommended by the Punjab School Education Board</p>	<ul style="list-style-type: none"> ● Chemical reactions and equations ● Acid, base and salts ● Metals and non-metals ● Life processes ● Control and coordination ● Reproduction in organisms ● Magnetic effects of electric current ● Electricity ● Human eye and colourful world ● Light 	30	30
<p>J. Social Science: Basic social science based on the syllabus of grade 10 as recommended by the Punjab School Education Board</p>	<ul style="list-style-type: none"> ● History <ul style="list-style-type: none"> ○ Physical features of Punjab and their influence on it's history ○ Political and social conditions of Punjab before Guru Nanak Dev ji ○ Punjab's contribution towards freedom struggle. ● Geography <ul style="list-style-type: none"> ○ Land utilisation and agriculture ○ The climate ○ Natural vegetation and wildlife ○ Mineral and power/energy resources ○ Manufacturing industries ○ Transport and communication ● Economics <ul style="list-style-type: none"> ○ Basic concepts ○ Infrastructure of India's economy 	30	30

	<ul style="list-style-type: none"> ○ Industrial development in India ● Civics <ul style="list-style-type: none"> ○ Indian constitution ○ Central government ○ State government ○ Democracy in India 		
K. Logical reasoning	<ul style="list-style-type: none"> ● Visualize shapes and structures based on described dimensions ● Demonstrate how shapes combine with each other by visualizing shapes, forms ● Reason with signs and shapes; to notice details in graphical presentations quickly ● Demonstrate perception of the operating principles behind changes in pattern and use the evidence to find what would logically follow 	15	15
L. Verbal reasoning	<ul style="list-style-type: none"> ● Understand concepts hidden in words, with the ability to abstract or generalize beyond mere vocabulary recognition ● Demands a good level of vocabulary 	15	15

5. For class 11th, the students will be allotted their preferred streams based on their merit in the respective section of the aptitude test. See Annexure IV for the details.
6. The minimum qualifying marks for the admission test is 40% in each subject and 50% in total.