

**Content Weightages for HEC Undergraduate Studies Admission/Aptitude Test
(USAT) for all 12 years/ Equivalent Education Disciplines/Streams**

Sr. No.	Test Category	Description Criteria and Subject Division	Subject 100% Weight																																		
01	Undergraduate Studies Admission/Aptitude Test (USAT-E) Having 12 years/ equivalent Education in Pre-Engineering	Part I Number of Test Items (75 MCQs) Time Allowed 100 Minutes <table border="1" data-bbox="660 688 1343 1582"> <tr> <td align="left">A: Verbal Reasoning</td><td align="right">20 MCQ's</td></tr> <tr> <td align="left">A1: Analogy</td><td align="right">05</td></tr> <tr> <td align="left">A2: Synonym/ Antonym</td><td align="right">04</td></tr> <tr> <td align="left">A3: Sentence Completion</td><td align="right">06</td></tr> <tr> <td align="left">A4: Comprehension</td><td align="right">05</td></tr> <tr> <td align="left">B: Quantitative Reasoning</td><td align="right">25 MCQ's</td></tr> <tr> <td align="left">B1: Arithmetic</td><td align="right">06</td></tr> <tr> <td align="left">B2: Algebra and functions</td><td align="right">04</td></tr> <tr> <td align="left">B3: Geometry</td><td align="right">03</td></tr> <tr> <td align="left">B4: Equations</td><td align="right">03</td></tr> <tr> <td align="left">B5: Statistics</td><td align="right">03</td></tr> <tr> <td align="left">B6: Scenario Based/Mental Mathematics</td><td align="right">06</td></tr> <tr> <td align="left">C: Physics</td><td align="right">10 MCQ's</td></tr> <tr> <td align="left">D: Chemistry</td><td align="right">10 MCQ's</td></tr> <tr> <td align="left">E: Mathematics</td><td align="right">10 MCQ's</td></tr> </table> Part II Time Allowed 40 Minutes <table border="1" data-bbox="660 1668 1343 1821"> <tr> <td align="left">Argument Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)</td><td align="right">15 Marks</td></tr> <tr> <td align="left">Narrative Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)</td><td align="right">10 Marks</td></tr> </table>	A: Verbal Reasoning	20 MCQ's	A1: Analogy	05	A2: Synonym/ Antonym	04	A3: Sentence Completion	06	A4: Comprehension	05	B: Quantitative Reasoning	25 MCQ's	B1: Arithmetic	06	B2: Algebra and functions	04	B3: Geometry	03	B4: Equations	03	B5: Statistics	03	B6: Scenario Based/Mental Mathematics	06	C: Physics	10 MCQ's	D: Chemistry	10 MCQ's	E: Mathematics	10 MCQ's	Argument Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)	15 Marks	Narrative Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)	10 Marks	
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02	Undergraduate Studies Admission/Aptitude Test (USAT-M) Having 12 years/ equivalent Education in Pre-Medical	Part I Number of Test Items (75 MCQs) Time Allowed 100 Minutes <table> <tr> <td>A: Verbal Reasoning</td> <td>20 MCQ's</td> </tr> <tr> <td>A1: Analogy</td> <td>05</td> </tr> <tr> <td>A2: Synonym/ Antonym</td> <td>04</td> </tr> <tr> <td>A3: Sentence Completion</td> <td>06</td> </tr> <tr> <td>A4: Comprehension</td> <td>05</td> </tr> <tr> <td>B: Quantitative Reasoning</td> <td>25 MCQ's</td> </tr> <tr> <td>B1: Arithmetic</td> <td>06</td> </tr> <tr> <td>B2: Algebra and functions</td> <td>04</td> </tr> <tr> <td>B3: Geometry</td> <td>03</td> </tr> <tr> <td>B4: Equations</td> <td>03</td> </tr> <tr> <td>B5: Statistics</td> <td>03</td> </tr> <tr> <td>B6: Scenario Based/Mental Mathematics</td> <td>06</td> </tr> <tr> <td>C: Physics</td> <td>08 MCQ's</td> </tr> <tr> <td>D: Chemistry</td> <td>08 MCQ's</td> </tr> <tr> <td>E: Biology</td> <td>14 MCQ's</td> </tr> </table> Part II Time Allowed 40 Minutes <table> <tr> <td>Argument Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)</td> <td>15 Marks</td> </tr> <tr> <td>Narrative Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)</td> <td>10 Marks</td> </tr> </table>	A: Verbal Reasoning	20 MCQ's	A1: Analogy	05	A2: Synonym/ Antonym	04	A3: Sentence Completion	06	A4: Comprehension	05	B: Quantitative Reasoning	25 MCQ's	B1: Arithmetic	06	B2: Algebra and functions	04	B3: Geometry	03	B4: Equations	03	B5: Statistics	03	B6: Scenario Based/Mental Mathematics	06	C: Physics	08 MCQ's	D: Chemistry	08 MCQ's	E: Biology	14 MCQ's	Argument Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)	15 Marks	Narrative Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)	10 Marks	
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03	Undergraduate Studies Admission/Aptitude Test (USAT-A) Having 12 years/ equivalent Education in Arts & Humanities	Part I Number of Test Items (75 MCQs) Time Allowed 100 Minutes	
		A: Verbal Reasoning	20 MCQ's
		A1: Analogy	05
		A2: Synonym/ Antonym	04
		A3: Sentence Completion	06
		A4: Comprehension	05
		B: Quantitative Reasoning	25 MCQ's
		B1: Arithmetic	06
		B2: Algebra and functions	04
		B3: Geometry	03
		B4: Equations	03
		B5: Statistics	03
		B6: Scenario Based/Mental Mathematics	06
		C: Islamiyat/ Ethics	10 MCQ's
		D: Pakistan Studies	10 MCQ's
		E: General Knowledge	10 MCQ's
		Part II Time Allowed 40 Minutes	
		Argument Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)	15 Marks
		Narrative Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)	10 Marks

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04	Undergraduate Studies Admission/Aptitude Test (USAT-CS) Having 12 years/ equivalent Education in Computer Science	Part I Number of Test Items (75 MCQs) Time Allowed 100 Minutes <table> <tr> <td>A: Verbal Reasoning</td> <td>20 MCQ's</td> </tr> <tr> <td>A1: Analogy</td> <td>05</td> </tr> <tr> <td>A2: Synonym/ Antonym</td> <td>04</td> </tr> <tr> <td>A3: Sentence Completion</td> <td>06</td> </tr> <tr> <td>A4: Comprehension</td> <td>05</td> </tr> <tr> <td>B: Quantitative Reasoning</td> <td>25 MCQ's</td> </tr> <tr> <td>B1: Arithmetic</td> <td>06</td> </tr> <tr> <td>B2: Algebra and functions</td> <td>04</td> </tr> <tr> <td>B3: Geometry</td> <td>03</td> </tr> <tr> <td>B4: Equations</td> <td>03</td> </tr> <tr> <td>B5: Statistics</td> <td>03</td> </tr> <tr> <td>B6: Scenario Based/Mental Mathematics</td> <td>06</td> </tr> <tr> <td>C: Physics</td> <td>08 MCQ's</td> </tr> <tr> <td>D: Computer Science</td> <td>14 MCQ's</td> </tr> <tr> <td>E: Mathematics</td> <td>08 MCQ's</td> </tr> </table> Part II Time Allowed 40 Minutes <table> <tr> <td>Argument Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)</td> <td>15 Marks</td> </tr> <tr> <td>Narrative Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)</td> <td>10 Marks</td> </tr> </table>	A: Verbal Reasoning	20 MCQ's	A1: Analogy	05	A2: Synonym/ Antonym	04	A3: Sentence Completion	06	A4: Comprehension	05	B: Quantitative Reasoning	25 MCQ's	B1: Arithmetic	06	B2: Algebra and functions	04	B3: Geometry	03	B4: Equations	03	B5: Statistics	03	B6: Scenario Based/Mental Mathematics	06	C: Physics	08 MCQ's	D: Computer Science	14 MCQ's	E: Mathematics	08 MCQ's	Argument Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)	15 Marks	Narrative Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)	10 Marks	Subject 100% Weight
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05	Undergraduate Studies Admission/Aptitude Test (USAT-GS) Having 12 years/ equivalent Education in General Science	Part I Number of Test Items (75 MCQs) Time Allowed 100 Minutes <table> <tr> <td>A: Verbal Reasoning</td> <td>20 MCQ's</td> </tr> <tr> <td>A1: Analogy</td> <td>05</td> </tr> <tr> <td>A2: Synonym/ Antonym</td> <td>04</td> </tr> <tr> <td>A3: Sentence Completion</td> <td>06</td> </tr> <tr> <td>A4: Comprehension</td> <td>05</td> </tr> <tr> <td>B: Quantitative Reasoning</td> <td>25 MCQ's</td> </tr> <tr> <td>B1: Arithmetic</td> <td>06</td> </tr> <tr> <td>B2: Algebra and functions</td> <td>04</td> </tr> <tr> <td>B3: Geometry</td> <td>03</td> </tr> <tr> <td>B4: Equations</td> <td>03</td> </tr> <tr> <td>B5: Statistics</td> <td>03</td> </tr> <tr> <td>B6: Scenario Based/Mental Mathematics</td> <td>06</td> </tr> <tr> <td>C: Mathematics</td> <td>10 MCQ's</td> </tr> <tr> <td>D: Statistics</td> <td>10 MCQ's</td> </tr> <tr> <td>E: Economics</td> <td>10 MCQ's</td> </tr> </table> Part II Time Allowed 40 Minutes <table> <tr> <td>Argument Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)</td> <td>15 Marks</td> </tr> <tr> <td>Narrative Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)</td> <td>10 Marks</td> </tr> </table>	A: Verbal Reasoning	20 MCQ's	A1: Analogy	05	A2: Synonym/ Antonym	04	A3: Sentence Completion	06	A4: Comprehension	05	B: Quantitative Reasoning	25 MCQ's	B1: Arithmetic	06	B2: Algebra and functions	04	B3: Geometry	03	B4: Equations	03	B5: Statistics	03	B6: Scenario Based/Mental Mathematics	06	C: Mathematics	10 MCQ's	D: Statistics	10 MCQ's	E: Economics	10 MCQ's	Argument Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)	15 Marks	Narrative Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)	10 Marks	Subject 100% Weight
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**Content Weightages for HEC MS/MPhil & PhD Studies Admission/Aptitude Test
(HAT) for all Disciplines/Streams**

Test will be conducted in the following five categories based on 16 years/equivalent education* & students should register accordingly;

Test Category**	Education*/Discipline	Test Breakup			
		English/Verbal Reasoning	Analytical reasoning	Quantitative Reasoning	Total
HAT 1	Engineering & Technology, Computer Science, Mathematics, Statistics, Physics	30%	30%	40%	100%
HAT 2	Management Sciences, Business Education,	30%	40%	30%	100%
HAT 3	Arts & Humanities, Social Sciences, Psychology (Clinical & Applied) and Law	40%	35%	25%	100%
HAT 4	Agriculture & Veterinary Sciences, Biological & Medical Sciences, Physical Sciences Education, Media & Mass Communication	40%	30%	30%	100%
HAT – General	Religious Studies (Madrassa Graduates)	40%	30%	30%	100%

**The applicant must select correct category on respective online portal.