

2020 MIT Science Olympiad Invitational Tournament

Sounds of Music: Aural Exam

January 25th, 2020



Exploring the World of Science

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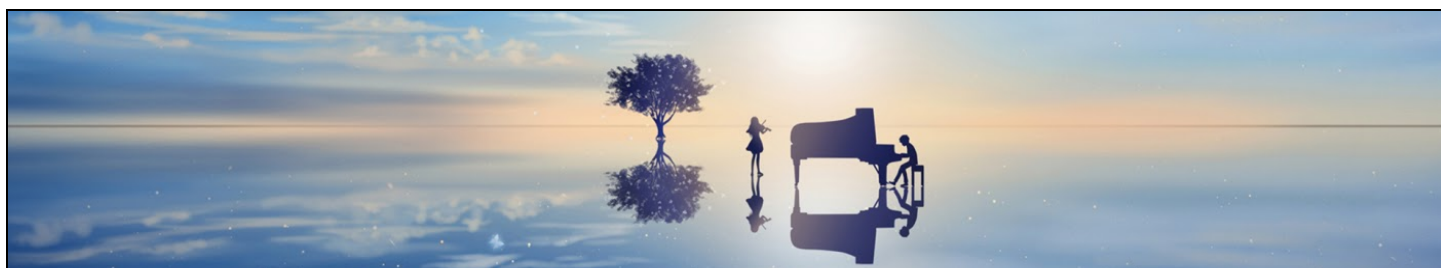
Competitor Names: _____

School Name: _____ Team #: _____

DO NOT OPEN THIS EXAM UNTIL INSTRUCTED!

EXAM INFORMATION:

- You will be given **7 minutes** to complete this exam.
- You may use a three-ring binder and two standalone calculators of any type.
- Once the testing period begins, verify that you have **3 numbered pages** and that your team number is correctly written in the top-left corner on every page. If you are missing a page, let us know immediately.
- Further instructions will be provided in the audio recording.
- Your score on this exam will count for up to 9 points toward your final score and will be scaled using the following formula: (Aural Exam score / Highest Aural Exam score across all teams) x 9.



AURAL EXAM SCORE:

/ 30 points



1) Shown below is a written piano transcription of Passage #1, which will be played aloud **one time**. Use the transcription and audio for Passage #1 to answer the following questions. (10 points)

- (a) From the transcription, write the solfege names for all eight notes in the first measure of the right hand in order, assuming that *do* represents C. [2pts]
- (b) From the transcription, identify both the **highest** and **lowest** pitches in this passage by letter and octave number (e.g. C4). [2pts]
- (c) In the transcription, what are the small notes at the beginning of the fourth measure called? [1pt]
- (d) In the transcription, what are the parenthesized accidentals in the last two measures called? Include both an adjective and the specific type of accidental. [2pts]
- (e) Based on the passage played aloud, which of the following terms or expressions characterize Passage #1? [3pts]
Circle ALL that apply.

A. forte
 B. piano
 C. vivace

D. moderato
 E. presto
 F. rubato

G. legato
 H. pizzicato
 I. con pedale

2) Passage #2 will be played aloud **two times**. Listen to Passage #2 and answer the following questions. **(10 points)**

(a) What time signature is this passage in? [2pts]

(b) Which Greek mode is this passage in? [2pts]

(c) The rhythmic string ostinato at the beginning consists of two voices that are separated by what interval? Include both the quality and the quantity of the interval. [1pt]

(d) Partway through the passage, the music modulates to which scale degree? [1pt]

(e) If the passage lasts 32.0 seconds, calculate the tempo (in beats per minute) to the nearest whole number. [2pts]

(f) Which of the following musical directions best characterizes this passage? Circle one answer. [1pt]

- A. Pesante
- B. Risoluto
- C. Cantabile
- D. Scherzando

(g) Which of the following terms best describes the relationship between the two alternating voices that carry the melody in this passage? Circle one answer. [1pt]

- A. Imitation
- B. Call-and-response
- C. Parallel motion
- D. Similar motion

3) Passage #3 will be played aloud **three times**. Passage #3 has a fast tempo and consists of four measures of an opening riff and eight measures of the main melody, for a total of twelve measures. Listen to Passage #3 and answer the following questions. **(10 points)**

(a) The instrument that plays in **measures 1 to 4** could be considered a member of which **two** main categories in the Hornbostel–Sachs classification? [2pts]

(b) On the following staff, transcribe the **rhythm** of the main melody in **measures 5 to 8** (when the main melody first enters), assuming no rests between notes. Even though a key signature has been provided, you may place the noteheads anywhere; **only the rhythm will be scored**. [4pts]



(c) Given the key signature above and the passage played aloud, what key is Passage #3 in? [1pt]

(d) In **measures 5 to 12** (when the main melody plays), write the letter name of the note played by the **bass** in each measure, based on the key of the passage. If the bass switches to a different note partway through the measure, include **both** notes in order. (Do not include the octave number; writing “A,” “B,” “C,” etc. is enough.) [3pts]

	Measures 5 & 9	Measures 6 & 10	Measures 7 & 11	Measures 8 & 12
Bass note(s) played:				