Theory Test

Units 6-10

Triads

The Triad	
The triad	s anote chord.
The 4 diffe	rent Triad types
There are 4 These are:	different chord types that are written as triads.
•	
•	
Major Triad	1
The formula	a for a major triad is:
•	of the major scale.
• Build a	<i>major</i> triad on each of the root notes given below.
	
The Minor	Triad
The formula	a for the <i>minor triad</i> is:
•	of the major scale.
Build a	minor triad on each of the given root notes.
	_
The Augm	ented Triad
The formula	a for the augmented triad is:
•	of the major scale.
• Build a	augmented triads on the following root notes.
===	

The Diminished Triad

The formula for the *diminished triad* is:

2

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• Spell out the triads on the chart below by filling in the blanks.

Triad	D	Em	Cm	Gdim	Ab	B aug	Cm	F
1	D							
3	F#		Eb					Α
5	Α	В				G	G	

Triad	Bb	D	Am	G dim	A aug	Eb	Em	F#
1	Bb							
3							G	A#
5			E	Db	F			

Triad	Bm	Db	Bb dim	E aug	Fm	D aug	Α	G
1								
3		F				F#	C#	
5				С				D

Unit Seven

Harmonizing the Major scale in Triads

Harmonizing the Scale

- (a) Write a C major scale on the staff below.
- (b) Number the scale steps (degrees) 1-8.
- (c) Above the note C write the 3rd and 5th notes of the scale.
- (d) What **type** of triad have you formed? Major, minor, diminished, or augmented.
- (e) Write the name below the triad.
- (f) Follow this same process with the other scale steps, in each case put a scale tone.

3rd and 5th above the

_	
•	Which of the triads on the staff above are <i>major</i> in quality? Write the scale degree number.
	Which triads are <i>minor</i> in quality?
•	Which triad is <i>diminished</i> in quality?
Ton	al Harmony
The	chords that result from this process form the basis of
Fori	mula of Major Scale Triad Qualities

• Write out the names of the triads in each key listed in the following table.

	1	2	3	4	5	6	7
C ma							
F ma							
Bb ma							
Eb ma							
Ab ma							
Db ma							
Gb ma							
G ma							
D ma							
A ma							
E ma							
B ma							
F# ma							
C# ma							

• Name the "5" chord in each of these keys.

Key	"5" chord
С	G
Α	
F#	
Eb	
D	
В	
Ab	
F	
E	
Db	
Bb	
G	

• Name the "3" chord in each of the following keys.

Key	"3" chord
С	Em
Α	
F#	
Eb	
D	
В	
Ab	
F	
E	
C#	
Bb	
G	

Fill in the blanks.

	T
Key	"6" chord
С	Am
	Bm
F	
	F#m
Ab	
	Ebm
Bb	
	Em
Db	
	C#m
Eb	
	G#m

• Fill in the blanks.

Key	"4" chord
	С
	Α
	Gb
	Eb
	D
	Cb
	Ab
	F
	E
	Db
	Bb
	G

• Fill in the blanks.

Key	"2" chord
	Cm
Α	
Gb	
	Ebm
D	
	Bm
Ab	
F	
	Em
Db	
	Bbm
	Gm

•	On the staff below are some chord progressions.
•	Write in <i>scale step numbers</i> for each one.

 _	_	 	_	_

Triad Review

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Name the 5th of each triad.

Triad	5th of triad	Triad	5th of triad
С	G	Em	
Ddim		G	
Dbmi		D	
A aug		G aug	
Bb		C dim	
F		Eb dim	
Dm		В	
Am		B aug	
Abdim		B dim	
Gm		Bm	
Fm		Ab	
C aug		Gbm	
Abm		F#m	
Α		E E	

Unit Eight

The Minor Scale

Minor Scales

Interval Formula	for the	Natural Minor	Scalo
IIILEI VAI FOI IIIUIA	ioi iiie	Naturai Willior	Scale

The numbers below represent the distance, (in half-steps), between the notes in a natural minor scale.

2 1 2 2 1 2 2

- Build *natural minor scales* using the root notes indicated.
- These will require only sharps.

Key of Eminor	 		
Key of Bminor			
Key of F#minor			_
Key of C#minor			_
Key of G#minor			

Key of D#minor

- Build the natural minor scales in the keys indicated.
- These require the use of flats only.
- Write the key signature next to the clef sign.

Kev	of D	minor

Key of Gminor

Key of Cminor

Key of Fminor

Key of Bbminor

Key of Ebminor

Minor Key Signatures

• Write the key signature for the scales listed below.

Am Em Bm F#m C#m G#m D#m

Am Dm Gm Cm Fm Bbm Ebm

Relative Major and Minor Keys

• Name the *relative minor key* of those listed.

Major key	Relative minor key
С	
G	
D	
Α	
E	
В	
F#	
F	
Bb	
Eb	
Ab	
Db	
Gb	

• Name the *relative major key* of those listed.

Major key	Relative minor key				
	Cm				
	Gm				
	Dm				
	Am				
	Em				
	Bm				
	F#m				
	C#m				
	Bm F#m C#m G#m				
	D#m				
	Bbm				
	Ebm				
	Fm				

The Harmonic Minor Scale

Build $\it harmonic\ minor\ scales$ using the root notes indicated. Write the key signatures next to the clef sign.

Key of Eminor
Key of Bminor
Key of F#minor
Key of C#minor
Key of G#minor
Key of D#minor
 Build the harmonic minor scales in the keys indicated. Write the key signature next to the clef sign.
Key of D minor

Key of Gminor			
Key of Cminor			
Key of Fminor			
Key of Bbminor			
Key of Ebminor			
Tey of Ebminor The Jazz Minor Scale (ascending Melodic Minor Scale) Build jazz minor scales using the root notes indicated. Write the key signatures next to the clef sign. Tey of Eminor			
Key of Bminor			
Key of F#minor			

<i>Ke</i> y	/ of C#minor
Key	of G#minor
Ke _j	/ of D#minor
Kej	Build the <i>jazz minor scales</i> in the keys indicated. Write the key signature next to the clef sign.
Ke _j	of Gminor
Ke _j	of Cminor
Key	/ of Fminor
Key	of Bbminor

mi7

Key of	^F Ebmi	nor					

Unit Nine

Sevenths and Key Centres

Seventh	Chord	Types

(a) The Major Seventh Chord

The major seventh chord (Ma7) formula is:

(b) The Minor Seventh Chord

The minor seventh chord (mi7) formula is:

(c) The Dominant Seventh Chord

The dominant seventh chord (7) formula is:

(d) The Minor Seven Flat Five Chord

The minor seven flat five chord (m7b5) formula is:

In most music situations the dominant seventh chord is shortened, (for convenience) to seventh (7).

mi7b5

dom7

- Build the chords as required on the staff below.
- Remember the scale being used is always the major scale.

• Fill in the blanks as you spell the seventh chord on the table below.

Chord	1	3	5	7	Chord	1	3	5	7
F7		Α			Abm7			Eb	
Am7			E		Db7		F		
Bbm7b5		Db			Gb Ma7		Bb		
D Ma7		F#			B Ma7		D#		
E7	E			D	C#m7b5		E		
Eb Ma7				D	Bm7b5	В			
Bm7		D			E7	E			
A Ma7			E		Eb7		G		
G7					Dm7			Α	
Gm7b5		Bb			Db7			Ab	
Cm7				Bb	G Ma7			D	
Ab Ma7		С			D Ma7				C#
D7				С	F m7				Eb
Am7b5		С			A7			E	
C7	С				F#7		A#		
Gb7				Fb	Em7b5		G		
Dm7b5			Ab		Bm7		D		
B7		D#			Am7				G
Em7		G			E Ma7			В	

The Formula for Seventh Chords in Each Key

•	The	formula	is:

 Using the formula from the previous page, fill in the seventh chords in each of the following keys on the table below.

				Chords			
Keys	I	II	III	IV	V	VI	VII
С	Cma7	Dm7	Em7	Fma7	G7	Am7	Bm7b5
D				Gma7			
E					В7		
F			Am7				
G							
Α				Dma7			
В							
Bb			Dm7				
Eb		Fm7					Dm7b5
Ab					Eb7		
Db							
Gb							
F#			A#m7		C#7		
C#		D#m7			<u> </u>		

Key Centres

A general guideline here is:

ΑI	ways	find	the	key	that	: th	e d	lominant	: chord	be	longs	to	first	Ċ.
----	------	------	-----	-----	------	------	-----	----------	---------	----	-------	----	-------	----

•	What is the key centre of the following progression?
•	Write the scale step numbers under each of the chords.

The following chord sequence contains several keys which would **not** be indicated by a change in the key signature.

- Establish the scale position (function) of each chord and write it below the chord.
- Write the key centres above the appropriate group of chords.
- Remember to look for the dominant 7 chord to give you a clue to the key.

Unit Ten

Inversions and Harmonizing the Minor Scale

In	vei	rsi	or	าร
		•		-

(a) Root Position	
When the chord is written (or played) with the	as it's lowest note it is said to be in root position .
(b) 1st Inversion	
When the chord is written (or played) with the	_ as the lowest note it is in <i>1st inversion</i> .

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(c) 2nd Inversion	
When the chord is written (or played) with the	as the lowest note it is in 2nd inversion .
(d) 3rd Inversion	
When the chord is written (or played) with the	as the lowest note it is in 3rd inversion .
Slash Chords	
The slash chord always has thediagonal slash.	_ on the left and the bass note on the right side of the
slash.	left of the slash and the bass note to the right hand side of the
If the chord is in root position there is no need to	write a separate bass note.
	=======================================

The notes in the boxes below that are marked 'notes' form a chord.

- Write the chord name in the box marked 'chord' or;
- Write the notes in the boxes to complete the chord spelling.

Fill in the blanks.

Chord	=	Note (1)	Note	Note	Note
	=	Bb	G	D	F
Am7	=		С	G	Α
	=	D	С	F#	A
	=	Α	D#	F#	В
Cm7	=		Eb	G	С
	=	G#	D	В	E
	=	F	С	E	A
Dma7	=	F#	C#	D	
	=	Ab	D	F	Bb

Chord	=	Note (1)	Note	Note	Not
Bm7b5	=	В		D	
A7	=	C#	G		
	=	F	D	С	A
Dm7	=	F	С		
F#m7b5	=		С	Α	
Bb7	=		D	F	Bb
Ab7	=	Ab			
Cma7	=		E	В	
C#m7	=		E	В	

- Rewrite the chord names from the above chart using the note marked in column (1) as the bass note.
- This will usually result in a slash chord notation.

Harmonizing the Harmonic Minor Scale

Formula of Minor Scale Triad Qualities

1	2	3	4	5	6	7

• Using the formula above, write out the names of the triads in each key listed in the following table.

	1	2	3	4	5	6	7
C mi	C mi	Ddim	Ebma	F mi	Gma	Abma	Bdim
F mi							
Bb mi							
Eb mi							
G# mi							
C# mi							
F# mi							
G mi							
D mi							
A mi							
E mi							
B mi							

- The following questions relate to the information on the previous table.
- Do not refer to it, but work the answers out from your knowledge of the minor scales and the formula of minor scale triad qualities.
- Name the "5" chord in each of these keys.

Key	"5" chord
Cmi	Gma
Ami	
F#mi	
Ebmi	
Dmi	
Bmi	
G#mi	
Fmi	
Emi	
C#mi	
Bbmi	
Gmi	

• Name the "3" chord in each of the following keys.

Key	"3" chord
Cmi	Eb
Ami	
F#mi	
Ebmi	
Dmi	
Bmi	
G#mi	
Fmi	
Emi	
C#mi	
Bbmi	
Gmi	

• Fill in the blanks.

Key	"6" chord
Cmi	Ab
	Bb
Fmi	
	F
G#mi	
	Eb
Bbmi	
	E
C#mi	
	Db
Ebmi	
	Ab

· Fill in the blanks.

Key	"4" chord
	Cmi
	Ami
	F#mi
	Ebmi
	Dmi