



Mid Exam For the Second Semester



Time: 30 Minutes

Date:

Artificial Intelligence

Sohag University
Faculty of Computers and AI

Q: Choose the correct answer:

1	The aims of AI is to make computers work with:			
a	High speed	c	High accuracy	
b	Efficiently in data management	d	Otherwise	
2	Which of the following of AI applications is true:			
a	Database management system	c	Neural networks	
b	System Analysis and design	d	Otherwise	
3	One of an attributes of AI systems uses of special structures to describe knowledge.			
a	Knowledge representation	c	Dynamic knowledge	
b	Meta knowledge	d	All the above	
4	It means providing the computer with optical sensors that can identify the persons and forms			
a	Expert Systems	c	Neural Networks	
b	Machine Learning	d	Image Processing	
5	It is a type of machine learning which models itself after the human brain			
a	Expert Systems	c	Neural Networks	
b	Machine Learning	d	Image Processing	
6	They are programs that contain a huge amount of information owned by a human in a specific field.			
a	Expert Systems	c	Neural Networks	
b	Machine Learning	d	Image Processing	
7	Which of the following FOLP is true for the sentence: All people that are not poor and smart are happy			
a	$\exists X (\neg \text{poor}(X) \wedge \text{smart}(X)) \rightarrow \text{happy}(X).$	c	$\forall X (\text{poor}(X) \wedge \text{smart}(X)) \rightarrow \text{happy}(X).$	
b	$\exists X (\neg \text{poor}(X) \vee \text{smart}(X)) \rightarrow \text{happy}(X).$	d	$\forall X (\neg \text{poor}(X) \wedge \text{smart}(X)) \rightarrow \text{happy}(X).$	
8	To rewrite the following FOP by Rule, we use : $\forall X \{[\text{friend}(X, \text{hany}) \rightarrow \text{friend}(X, \text{saied})] \wedge [\text{friend}(X, \text{saied}) \rightarrow \text{friend}(X, \text{ali})]\}$			
a	If X is friend hany, Then X is friend saied And X is friend ali	c	If X is friend hany, And X is friend saied Then X is friend ali	

b	If X is friend hany, And hany is friend saied Then X is friend ali	d	Otherwise.
9	By using Python Imaging Library (PIL), what is the correct code to read an image (D:\aaa.jpg)		
a	Image.open ("D:\aaa.jpg")	c	Image.open ("D:\\aaa.jpg")
b	Image.read ("D:\aaa.jpg")	d	D = image.open ("D:\\aaa.jpg")
10	If you consider the following code, what is the length of the line: <div style="text-align: center;">draw.line((100, 200, 300, 400), fill=(0, 0, 0), width=10)</div>		
a	100	c	300
b	200	d	400



Mid Exam For the Second Semester



Time: 30 Minutes

Artificial Intelligence

Sohag University

Date:

G. P. III

Faculty of Computers and AI

Q: Choose the correct answer:

1	AI aims is programming computers so that they can have the ability to:		
a	Think	c	Make decisions
b	Solve problems	d	All the above
2	It is a method to perform some operations on the form, in order to extract some useful information from it.		
a	Expert Systems	c	Neural Networks
b	Machine Learning	d	Image Processing
3	Which of the following of AI applications areas is true.		
a	Networks Field	c	Military Field
b	Medical Field	d	All the above
4	One of an attributes of AI systems is:		
a	Knowledge representation	c	Dynamic knowledge
b	Meta knowledge	d	All the above
5	It is considered one of the main components of expert systems		
a	Database Systems	c	Knowledge Base
b	Information Systems	d	Knowledge Based Systems
6	It is awareness gained by experiences of facts, data, and situations		
a	Fact	c	Knowledge
b	Rule	d	Information
7	Which of the following FOLP is true for the sentence: Every man respects his parent		
a	$\exists x \text{ man}(x) \wedge \text{respects}(x, \text{parent}).$	c	$\forall x \text{ man}(x) \rightarrow \text{respects}(\text{parent}).$
b	$\exists x \text{ man}(x) \wedge \text{respects}(\text{parent}).$	d	$\forall x \text{ man}(x) \rightarrow \text{respects}(x, \text{parent}).$
8	Consider the following rule and which of the following FOPL is true : If x is father of z, And z is father of y, Then x is grandfather of y.		

a	$(\forall x \forall y \exists z) \{ \text{father}(x,z) \wedge \text{father}(y,z) \rightarrow \text{grandfather}(x,y) \}.$	c	$(\forall x \forall y \exists z) \{ \text{father}(z,x) \wedge \text{father}(z,y) \rightarrow \text{grandfather}(x,y) \}.$
b	$(\forall x \forall y \exists z) \{ \text{father}(z,x) \wedge \text{father}(y,z) \rightarrow \text{grandfather}(x,y) \}.$	d	$(\forall x \forall y \exists z) \{ \text{father}(x,z) \wedge \text{father}(z,y) \rightarrow \text{grandfather}(x,y) \}$
9	To change the size of an image using resize() method of pillow, you use:		
a	im = image.open ("xxx.jpg") im.resize ((300, 300))	c	im = image.open ("xxx.jpg") im = resize ((300, 300))
b	im = image.open ("xxx.jpg") im = im.resize ((300, 300))	d	Oterwise
10	Consider the following codes: from PIL import Image,ImageDraw img = Image.new('RGB', (500, 300), (12, 25, 15)) draw = ImageDraw.Draw(img) draw.line((200, 100, 300, 200), fill=(0, 0, 0), width=10) img.show() and what do the parameters (500,300) represent:		
a	The length and width of the line	c	The coordinates of the starting and end point of the line
b	The coordinates of the starting point of the line	d	Otherwise



Mid Exam For the Second Semester



Time: 30 Minutes

Artificial Intelligence

Sohag University

Date:

AI+Bio

Faculty of Computers and AI

Q: Choose the correct answer:

1	In expert systems, the computer is provided with optical sensors that can identify people and suspects		
a	True	b	False
2	The knowledge base is one of the main components of an expert systems.		
a	True	b	False
3	The knowledge is awareness gained by experiences of facts, data, and situations:		
a	True	b	False
4	Consider the following rule and which of the following FOPL is true : If x is father of z, And z is father of y, Then x is grandfather of y.		
a	$(\forall x \forall y \exists z) \{ \text{father}(x,z) \wedge \text{father}(y,z) \rightarrow \text{grandfather}(x,y) \}$.		
b	$(\forall x \forall y \exists z) \{ \text{father}(z,x) \wedge \text{father}(z,y) \rightarrow \text{grandfather}(x,y) \}$.		
c	$(\forall x \forall y \exists z) \{ \text{father}(z,x) \wedge \text{father}(y,z) \rightarrow \text{grandfather}(x,y) \}$.		
d	$(\forall x \forall y \exists z) \{ \text{father}(x,z) \wedge \text{father}(z,y) \rightarrow \text{grandfather}(x,y) \}$		
5	To change the size of an image using resize() method of pillow, you use:		
a	<code>im = image.open ("xxx.jpg") im.resize ((300, 300))</code>	c	<code>im = image.open ("xxx.jpg") im = resize ((300, 300))</code>
b	<code>im = image.open ("xxx.jpg") im = im.resize ((300, 300))</code>	d	Oterwise
6	Consider the following codes, and what do the parameters (500,300) represent: <code>from PIL import Image,ImageDraw img = Image.new('RGB', (500, 300), (12, 25, 15))</code>		
a	The length and width of the line	c	The coordinates of the starting and end point of the line
b	The coordinates of the starting point of the line	d	Otherwise
7	If you consider the following code, what is the length of the line: <code>draw.line((100, 100, 100, 400), fill=(0, 0, 0), width=10)</code>		
a	100	c	300
b	200	d	400

8	To write the following sentence by Prolog language, we use: jon likes everyone who plays a football.		
a	likes (X,Y):- plays(X, football).	c	likes (jan,Y):- plays (jan, football).
b	likes (X,Y):- plays(Y, football).	d	likes (jan,Y):- plays (Y, football).
9	To write the following sentence by Prolog language, we use: A man is happy if he is rich and famous		
a	hapy (man): - rich(man),feamus(man).	c	hapy (X):- rich(man),feamus(man).
b	rich (man),feamus(man):- hapy(man),	d	hapy (X):-rich(X),feamus(X).
10	What is the atomic sentence of the following sentence: Billy studies AI		
a	study (Bily, AI)	c	study (bily, ai)
b	study (AI, Bily)	d	study (ai, bily)