## https://selldocx.com/products Chapter 2-Pathast-Rendgationition-theories-and-applications-9e-reed

## MULTIPLE CHOICE

1. A method for distinguishing between real people and intelligent computer programs is to require both to recognize

a. a faceb. typed digits on a check.c. a mangled word.d. a secret code.

ANS: C DIF: Applied REF: Describing Patterns

2. Which theory states that we compare patterns with each other and measure how much they overlap?

a. feature theory

c. template theory

b. Sperling's theory

d. Rumelhart's theory

ANS: C DIF: Conceptual REF: Describing Patterns

3. Template theories

a. are designed to explain our ability to read words faster than letters.

b. take an unanalyzed pattern and match it against stored alternative patterns.

c. analyze the specific features of a pattern.

d. specify how the features of a pattern are joined to each other.

ANS: B DIF: Conceptual REF: Describing Patterns

4. In an experiment by Phillips, subjects had to decide whether two checkerboard patterns were the same or different. They could not make a template match

a. when the two patterns were in different locations on the screen.

b. after the visual information store decayed.

c. if the two patterns were separated by more than .5 seconds.

d. All of these

ANS: D DIF: Factual REF: Describing Patterns

MSC: WWW

5. The results of the Phillips (1974) study discussed in your text indicates that

a. the template model may describe events within the sensory store.

b. the feature model may describe events within the sensory store.

c. the template model may describe events within long term memory.

d. the feature model may describe events within long term memory.

ANS: A DIF: Conceptual REF: Describing Patterns

6. Which theory seems to best describe the contents of the sensory store?

a. template theory

c. feature theory

b. structural theory

d. geon theory

ANS: A DIF: Conceptual REF: Describing Patterns

7. The theory that describes patterns by listing their parts is

a. template theory. c. structural theory.

b. feature theory. d. prototype theory.

ANS: B DIF: Conceptual REF: Describing Patterns

a. template theory structural theory b. feature theory d. geon theory ANS: B DIF: Conceptual **REF:** Describing Patterns 9. A major difference between a feature theory and a template theory is a. a feature theory specifies the relations between the features. b. a template specifies the relations between the features. c. a feature theory processes the input pattern as a single unit. d. a template processes the input pattern as a single unit. ANS: D DIF: Conceptual **REF:** Describing Patterns 10. Egeland taught kindergarten children to distinguish effectively between confusable letter pairs by emphasizing a. all the features of the letters. c. the shared features. b. the distinctive features. d. none of the features. ANS: B DIF: Applied **REF:** Describing Patterns 11. Emphasizing distinctive features when teaching young children to recognize letters a. helps them to distinguish between letters afterwards and minimizes frustration due to b. helps them to create a holistic template for letters. c. helps them to understand the underlying principles of phonics and learn to read more auickly. d. is of no demonstrable benefit. DIF: Applied **REF:** Describing Patterns ANS: A 12. The importance of distinctive features in pattern recognition is demonstrated by the finding that people a. faster in identifying caricatures of faces than accurate line drawings of faces. b. faster in identifying accurate line drawings than caricatures. c. more often correct in identifying caricatures than accurate line drawings. d. more often correct in identifying accurate line drawings than caricatures. ANS: A DIF: Applied **REF:** Describing Patterns 13. According to Gibson's feature theory, features should remain unchanged despite changes in c. perspective. a. brightness. b. size. d. All of these DIF: Conceptual **REF:** Describing Patterns ANS: D 14. A set of proposed features is usually evaluated by a. asking people whether it looks reasonable. b. determining whether it can account for perceptual confusions. c. observing how people draw patterns. d. All of these ANS: B DIF: Factual **REF:** Describing Patterns MSC: WWW

8. If I were to describe my friend Bob by saying he has dark hair, blue eyes, and he's very tall, which kind

of theory would I be using?

15.	Structural theories of a. deny the existent b. are extensions of c. assume that a part d. ignore the relation	ce of feature of feature of tettern ca	atures. e theories. n be described		ng its features.
	ANS: B	DIF:	Conceptual	REF:	Describing Patterns
16.	Structural theories h a. they specify spa b. they specify mo c. they make it eas d. they can accomm	tial relater re featuri ier to pr	tionships. res. redict perceptua	al confus	
	ANS: A	DIF:	Conceptual	REF:	Describing Patterns
17.		in which el in whi el in wh	n all the feature ch there are on	es are ch ly a lim	aracterized. ited number of templates. f components can be used to build many
	ANS: C	DIF:	Conceptual	REF:	Describing Patterns
18.	In an experiment by at  a. midsegments, su b. midsegments, su c. vertices, support d. vertices, support	ipportin ipportin ting a te	g a template th g a structural tl mplate theory.	eory. neory.	objects was more difficult when lines were deleted
	ANS: D	DIF:	Factual	REF:	Describing Patterns
19.	Discriminating between different geons for a. college students b. the Himba in a reason.  ANS: D	in the U	Jnited States.	c. oia. d.	
20					•
20.	The skeleton structu a. template theory. b. feature theory.		imals can best	be descr c. d.	
	ANS: C	DIF:	Conceptual	REF:	Describing Patterns
21.	Which of the follow a. filter b. feature	ing mod	lels does not be	elong? c. d.	structural template
	ANS: A	DIF:	Conceptual	REF:	Describing Patterns

22.	The duration of the a. 2.5 msec. b. 25 msec.	e visual sensory store i	approximately c. 250 n d. 2500		
	ANS: C	DIF: Factual	REF: Inforn	nation-Processing Stages	
23.	<ul><li>a. The partial report</li><li>b. The partial report</li><li>c. The partial report</li></ul>		nformation for ceach line individed he subject to res	only a very brief time.	
	ANS: D	DIF: Factual	REF: Inform	nation-Processing Stages	
24.	<ul><li>a. auditory encod</li><li>b. sequential scan</li><li>c. perceptual limi</li></ul>	erling's partial report to ing from visual encoderating from parallel scattations from memory mory from long-term re	ng. nning. imitations.	distinguish	
	ANS: C	DIF: Conceptual	REF: Inforn	nation-Processing Stages	
25.	<ul><li>a. there was neve</li><li>b. so long as subj</li><li>partial-report a</li></ul>	r a difference between ects responded within nd whole-report finding	the partial-repor 5 seconds, there gs.	echnique results was that t and whole-report findings. was no difference between the those obtained by the whole-report	
	ANS: C	DIF: Factual	REF: Inforn	nation-Processing Stages	
26.		s while parallel nulti-tasking erling DIF: Conceptual	<ul><li>c. geons</li><li>d. All of</li></ul>		
27.	The decay rate of the a. occurrence of a b. contrast of the	a second exposure.		all of the following <i>except</i> ity of the stimulus.	
	ANS: D	DIF: Factual	REF: Inforn	nation-Processing Stages	
28.	auditory informational the sensory storal b. the scan composition	on store is a part of re.	c. short- d. long-	n store to rehearse the names of pattern term memory. term memory.	ns. The
	ANS: C MSC: WWW	DIF: Factual	REF: Inform	nation-Processing Stages	

29.	What was the major revision in Sperling's 1967 model for the visual report task?  a. the change from sequential scanning to parallel scanning  b. the change from parallel scanning to sequential scanning  c. the addition of the visual information store  d. the addition of the auditory information store				
	ANS: A	DIF:	Conceptual	REF:	Information-Processing Stages
30.	Which of the following a. It is a mathematic b. Recognition is in c. Recognition is in d. All of these	cal mod	lel. d by the numbe	er of ite	
	ANS: D	DIF:	Conceptual	REF:	Information-Processing Stages
31.	According to Rumella. a parallel scan and b. a parallel scan and	d featu	re recognition.	c.	a serial scan and feature recognition. a serial scan and template matching.
	ANS: A	DIF:	Conceptual	REF:	Information-Processing Stages
32.	<ul> <li>According to Rumelhart's model, people do better in the partial report procedure than in the whole report procedure because</li> <li>a. they can use the visual information store to read off letters in the cued row.</li> <li>b. the clarity of the visual information store increases over time.</li> <li>c. they can often correctly guess which row will be cued.</li> <li>d. they have less to remember.</li> </ul>				
	ANS: A	DIF:	Conceptual	REF:	Information-Processing Stages
33.	33. Imagine that you view a brief flash of letters. In which series will it be easiest to judge whether letter C or M was the third letter?				
	<ul><li>a. AFCE</li><li>b. FACE</li></ul>				C- All are equal
	ANS: B	DIF:	Applied		Word Recognition
34.	The 'word superiority a. a letter by itself. b. a letter in a non-v		refers to the fir	c. d.	nat it is easier to recognize a letter in a word than Both a and b Neither a nor b Word Recognition
35.	The interactive active word comes from a. the feature level. b. the word level.	ation m	odel of word re	ecognitio c. d.	on proposes that information about the letters in a  Both a and b  Neither a nor b
	ANS: C	DIF:	Conceptual	REF:	Word Recognition

36.	An important effect of it stimulated interest a. feature models. b. neural network n	in	nteractive activa		odel proposed by Rumelhart and McClelland is that template models. structural models.
	ANS: B MSC: WWW		Factual		Word Recognition
37.	Neural network mod-	els have	e been most wid	dely use	rd to model
	a. pattern recognition			c.	problem solving.
	b. STM.			d.	text comprehension.
	ANS: A	DIF:	Factual	REF:	Word Recognition
38.	Neural network mode	els incl	ude all <i>except</i> v	vhich of	the following?
	a. processing units called nodes			c.	
	b. connections amo	_			strictly serial processing
	ANS: D	DIF:	Conceptual	REF:	Word Recognition
39.	<ul> <li>89. Neural network models consist of nodes that are</li> <li>a. independent of each other.</li> <li>b. connected to each other by excitatory connections.</li> <li>c. connected to each other by inhibitory connections.</li> <li>d. connected to each other by excitatory and inhibitory connections.</li> </ul>				
	ANS: D	DIF:	Conceptual	REF:	Word Recognition
40.	<ul><li>Learning in neural network models occurs</li><li>a. creating new nodes.</li><li>b. creating new connections.</li></ul>			by c. d.	
	ANS: C MSC: WWW	DIF:	Conceptual	REF:	Word Recognition
TRUI	E/FALSE				
1.	Computers are superior to humans in their ability to recognize patterns.				o recognize patterns.
	ANS: F	DIF:	Applied	REF:	Introduction
2.	Template matches can occur in the sensory store.				
	ANS: T	DIF:	Conceptual	REF:	Describing Patterns
3.	A distinctive feature that category.	is one t	hat is present a	mong al	ll exemplars of a given category and helps define
	ANS: F	DIF:	Factual	REF:	Describing Patterns
4.	A geon is essentially	a three	-dimensional fe	eature.	
	ANS: T	DIF:	Conceptual	REF:	Describing Patterns

5.	Sperling n scan.	nodified his o	rigina	l information-	process	ing model by changing a parallel scan to a serial
	ANS: F	Г	DIF:	Conceptual	REF:	Information-Processing Stages
6.	Detection present in		e thos	e in which one	has to	specify which of two possible target patterns is
	ANS: T	D	DIF:	Factual	REF:	Information-Processing Stages
7.	Rumelhart	t's recognition	n mod	el is influence	d by the	number of items in a display.
	ANS: T	Б	DIF:	Conceptual	REF:	Information-Processing Stages
8.	The term <i>superiority effect</i> indicates that accuracy in recognizing a letter is higher when the letter appears alone than when it is part of a word.					
	ANS: F	Б	DIF:	Factual	REF:	Word Recognition
9.	Neural net	work models	can h	ave both inhib	itory an	nd excitatory connections.
	ANS: T	D	DIF:	Conceptual	REF:	Word Recognition
10.	Neural net	work models	can h	ave connection	ns that a	are only on or off.
	ANS: F	D	DIF:	Conceptual	REF:	Word Recognition
ESSA	Y					
1.	Why was		rtial re	eport technique	an inn	ovation in research methodology, and why was it so
	ANS: Answer no	ot provided.				
2.				ctives on patter akness of each		enition: template, feature, and structural models.
	ANS: Answer no	ot provided.				
3.	Of the maj	jor theoretical	l pers <sub>l</sub>	pectives of patt	tern rec	ognition which do you prefer, and why?
	ANS: Answer no	ot provided.				
4.	Describe t	he partial-rep	ort te	chnique. What	were th	e major findings from these studies?
	ANS: Answer no	ot provided.				

	ANS:
	Answer not provided.
6.	What is the word superiority effect? Describe the model discussed in your text to explain this effect.
	ANS: Answer not provided.
7.	What are neural network models? What are the components of a neural network?
	ANS: Answer not provided.
8.	Explain how perpetual learning can be facilitated by the highlighting of distinctive features. What benefits result from this method?
	ANS: Not provided.
9.	Describe the impact of Biederman's work on structural theories. How did it build upon the previous work of others?
	ANS: Not provided.
10.	Why do people have difficulty recognizing faces of other races?
	ANS: Not provided.

5. Compare and contrast Sperling's model of information processing with Rumelhart's.