PASS Education System

PASS SUCCESS SERIES (NTS-NAT) Test

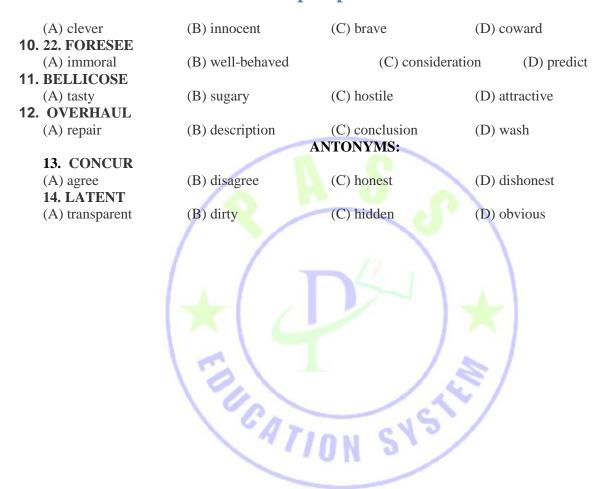
Prepared By: PASS Education System (Team)

ENGLISH

Unemployment is an important index of economic slack and lost output, but it is much more than that. For the unemployed person, it is often a damaging affront to human dignity and sometimes a catastrophic blow to family life. Nor is this cost distributed in proportion to ability to bear it. It falls most heavily on the young, the semiskilled and unskilled, the black person, the older worker, and underemployed person in a low income rural area who is denied the option of securing more rewarding urban employment... The concentrated incidence of unemployment among specific groups in the population means far greater costs to society that can be measured simply in hours of involuntary idleness or dollars of income lost. The extra costs include disruption of the careers of young people, increased juvenile delinquency, and perpetuation of conditions which breed racial discrimination in employment and otherwise deny equality of opportunity. There is another and more subtle cost. The social and economic strains of prolonged under-utilization create strong pressures for cost-increasing solutions... On the side of labor, prolonged high unemployment leads to "share-the-work" pressures for shorter hours, intensifies resistance to technological change and to rationalization of work rules. On the side of business, the weakness of markets leads to attempts to raise prices to cover high average overhead casts and to pressures for protection against foreign and domestic competition.

	protecti	on against fore	eign and domestic	competition.	
	1.	According to	the passage, unem	ployment is an index of	
		(A) over utiliz	zation of capacity	(B) economic slad	ck and lost output
		(C) diminishe	d resources	(D) the employme	ent rate
	2.	While unemp	loyment is damag	ing to many, it falls most he	eavily upon all except the
		(A) black	(B) ser	miskilled (C) unski	lled (D) white middle class
	3.	The cost to so	ciety of unemploy	yment can be measured by a	all except
		(A) lost incom	nes (B) idle	eness (C) the death rate	(D) juvenile delinquency
	4.	Serious unem	ployment leads la	bor groups to demand	
		(A) more jobs	by having everyo	one work shorter hours (E	B) higher wages to those employed
		(C) "no fire"	policies	(D) cost-cutting solutions	
	5.			ical business reaction to a r	ecession is to press for
		_		rance (B) protection aga	_
		(C) governme	nt action	(D) restrictive bus	siness practices
				SYNONYMS	
6.	REFU	ΓE			
	(A) pro	ve	(B) break	(C) disprove	(D) disclose
7.	COGN	NIZANT			
	(A) awa	are	(B) strict	(C) lenient	(D) ignored
8.	INTRE	EPID			
	(A) afra	aid	(B) brave	(C) happy	(D) unhappy
Q	INCEN	SHOHE			

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IS. DEAKIH					
(A) abundance	(B) lack	(C) dea	th	(D) sic	kness
16. PUSILLANIMOU	JS				
(A) hatred	(B) coward		(C) brave		(D) loving
17. DISCLOSE					
(A) secret	(B) reveal		(C) conceal		(D) stop
18. CRESTFALLEN					
(A) peak	(B) bottom		(C) sad	(D) che	eerful
19. EXTEMPORANE	OUS				
(A) planned	(B) not planned		(C) error		(D) example
20. SCARCITY					
(A) fearful	(B) tiring		(C) lack	(D) abu	indance

Analytical Reasoning

On the first day of school in September, seven new students – A, B, C, D, E, F and G – must be each assigned to a guidance counselor. There are three counselor – R, S and T - and each student is assigned to exactly one of them. In making the assignments the director must adhere to the following conditions:

- No counselor can be assigned more than three of the students.
- A and B must be assigned to the same counselor.
- Neither C nor D can be assigned to same counselor as E or F
- F is not assigned to T

QUESTION #1

15 DEADTH

If E is assigned to S and F is assigned to R, which of the following can"t be true ? (a) A is assigned to S (b) A is assigned to T (c) B is assigned to R (d) B is assigned to S (e) G is assigned to T QUESTION # 2

If A and C both are assigned to R, which of the following could be true?

- (a) More students are assigned to S than R (b) More students are assigned to T than S (c) Only one student is assigned to S
- (d) Only one student is assigned to T
- (e) Three students are assigned to T

QUESTION #3

If B is assigned to S, then which of the following could be true ? (a) A is assigned to R and C is assigned to T

- (b) C is assigned to R and D is assigned to S
- (c) C is assigned to R and G is assigned to S
- (d) C is assigned to R and D is assigned to T
- (e) F is assigned to R and E is assigned to S

QUESTION #4

If B and S are assigned to the same counselor and at least two students are assigned to each counselor, how many different ways are there to assign the seven students?

(a) 0 (b) 1 c) 2 d) 3 e)

A four person congressional committee is to be formed consisting of two senators and two representatives. The senators are to be chosen from W, X, Y and Z.

The representatives are to be chosen from P, Q, R and S. The committee will be chosen by vice president subject to the following conditions:

- S will not serve on committee unless X does
- Y will not serve on committee with Q
- \bullet The president has decided that Y or Z must be included but neither Y nor Z is willing to serve with other QUESTION # 1

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Which of the following could be the fourth member of the committee that already consists of R, W and Y: (a) P (c) S (e) Z (b) Q (d) X

QUESTION #2

If neither P nor R is assigned to the committee which of the two senators must be on the committee?

(a) W and Y (c) W and Z (e) Y and Z (b) X and Y (d) X and Z

OUESTION #3

Which of the following can be other three members of the committee that includes Y? (a) P, R, Z (c) Q,

R, X (e) S, W, X (b) P, S, W (d) R, S, X

OUESTION #4

If the vice president choses S to be on the committee which of the following could Not be on the committee?

(a) (c) R (b) Q (d) W

A museum curator must arrange nine paintings – F, G, H, J, K, K, L, M, N, and O – in twelve Spaces counted consequently from 1-12. The painting must be in three groups, each group representing a different century. The groups must be separated from each other by at least one unused wall space. Three of the paintings are from 18th century, two from 19th century and four from the 20th century.

- . Unused wall spaces cannot occur with in groups
- . G and J are paintings from the different centuries
- . J, K and L are the paintings all from same century
- . Space no. 5 is always empty
- . F and M are 18th century paintings
- . N is a 19th century painting

QUESTION No. 1

If space 4 is to remain empty, which of the following is true?

- a) Space no. 10 must be empty
- b) the groups of paintings must be hung in chronological order by century
- c) An 18th century painting must be hung in space 3
- d) A 19th century building must be hung in space 1

QUESTION No. 2

If the paintings are hung in the reverse chronological order by century, the unused wall spaces could be:

- a) 1,5 and 10
- b) 1,6 and 10
- c). 5.9 and 10
- d) 5.8 and 12

QUESTION No. 3

Which of the following is a space that cannot be occupied by the 19th century painting?

a). Space 1

b) Space 9

c) Space 6

d) Space 11

QUESTION NO. 4

If J hangs in space 11, which of the following is a possible arrangements for Spaces 8 and 9:

- a). F in 8 and M in 9
- b) K in 8 and G in 9
- c) N in 8 and G in 9
- d) 8 unused and H in 9

A Florist has exactly seven varieties of flowers – P. Q, R, S, T, U and V – from which she must select combinations of exactly five varieties with which to make different flower arrangements. Any combinations of the five varieties that conform to all of the conditions is acceptable:

- . If P is used in an arrangements T cannot be used in that arrangement
- . If Q is used in arrangement then U must also be used in that arrangement
- . If R is used in an arrangement then T is also be used in that arrangement

QUESTION NO. 1

Which of the following is an acceptable combination of varieties that the florist can select for arrangements?

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	a). P, Q, S, T, U QUESTION No. 2	b) P, Q, R, U,	V	c) P, S, T, U, V	/ d)	Q, R, S, T, U	
	If the florist selects the that arrangements?	variety R to be in	ncluded in ar	rangements, which	of the follow	wing must be true	of
	a). P is not used QUESTION NO. 3	b) U is not used	c) Q	is not used	d) S is not	used	
	If variety P is used in a	rrangement whic	ch of the follo	owing CANNOT be	e used in tha	t arrangement?	
	a). Q b) R	c) S	d) U	_	o asca in the	a urungement.	
	QUESTION No. 4	-, -	.,, -				
	If the florist does not se	elect variety V for	r a <mark>n ar</mark> rangen	nent, which of the f	ollowing car	nnot be selected?	
	a). P b) Q	c) R	d) S				
				U			
	Ten different fabrics are						
	other in a straight line a						
	different fabrics. One fa					ee fabrics are differ	rent
	shades of purple And th		fabrics are d	lifferent shades of r	red:		
	. Purple fabrics are on r				. 1		
	. The two brown fabrics			er	_		
	. No red fabric in on a r						
	. No purple fabric is on QUESTION No. 1						
	If a purple fabric is on a		d fabrics are	on rack three and fo	our, the gree	n fabric must be in	1
	which of the following			16	5/		
	a). Five b) Six	c) Seve	n	d) Eight	1 /		
	Question No. 2	60		15			
	If the four red fabrics ar			green fabric and the	one brown	Fabrics could be of	ne
	which of the following			U	1	G: 1.G	
	a). Two and Three	b) Three and Fo	our c) F	our and Five	a)	Six and Seven	
	QUESTION NO. 3		ni an that CAN	INOT has an analysis	T Th	and Farm	
	Which of the following respectively	are colors of fac	orics that CAI	NNOT be off facks	Two, Tillee	and rour,	
	a). Purple,Red,Green	b) Purple, Brow	n Proun	c) Brown, Brown,	Durnlo d)	Red,Red,Green	
	Question No. 4	b) I uipic, Blow	n, brown	c) blown, blown,	,i ui pie u)	Reu,Reu,Green	
	If a purple fabric is on r	rack Three and b	own fabric o	n rack four the ore	en fabric mi	ist he in which of t	the
	following racks?	dek Three and of	Table 0	ir rack roar, the gre		ist be in which of t	.110
	a). 2 b). 5	c) 6	d) 7	uca	LIV	/ III III	
	۵). و	•, •	ω, ,				
	Ou	antitative Re	easoning				
1	. What is the average of	first 150 natural	numbers?	em			
	(A) 70	(B) 70.5	(C)	75 (D) 75	.5		
	$2.\ 0.003 \times 0.02 = ?$			` ,			
	(A) 0.06	(B) 0.0	06	(C) 0.0006	(I	0.00006	
	3. What is the average of	of the numbers: (0, 0, 4, 10, 5,	and 5 ?			
	(A) 2	(B) 3	(C) 4	(D) 5			
	4. $ -4 + 4 - 4 + 4 = ?$						
	(A) 0	(B) 2	(C) 4	(D) 8			
	5. What is the value of	_		= 0 ?			
	(A) 7	(B) 8	(C) 9	(D) -9			
	6. What is the area in cr		-	-			
	(A) 6	(B) 7	(C) 8	(D) 9			

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7. If A completes a particular work in 8 days and B completes the same work in 24 days. How many days
will it take if they work together?
(A) 4 (B) 5 (C) 6 (D) 7
8. What comes next in the sequence: 1, 3, 11, 43,?
(A) 161 (B) 171 (C) 181 (D) 191
9. $42 + 4 + -4 - 42 = ?$
(A) -4 $(B) 0$ $(C) 4$ $(D) 8$
10. If one-third of one-fourth of a number is 15, then three-tenths of that number is:
a) 35 b) 36 c) 45 d) 54 e) None of these
11. Find the number, when 15 is subtracted from 7 times the number, the result is 10 more than twice the
number:
a) 5 b) 15 c) 7.5 d) 4
12. The difference between a number and its three-fifth is 50. What is the number?
a) 75 b) 100 c) 125 d) None of these
13. The cost of renting a bike at the local bike shop can be represented by the equation
Y = 2x + 2 where Y is the total cost and is the number of hours the bike is rented. Which of the
following ordered pairs would be the possible number of hours rented, x, and the corresponding
total cost y.
a) (0,-2) b) (2,6) c) (6,2) d) (-2,-6)
14. Ahmad participated in a dance party. His team started dancing at 10 A.M on Friday and stopped at 6 P.M
on Saturday. How many hours did Ahmad"s team dance?
a) 52 b) 56 c) 30 d) 32
15. A nation park keeps track of how many people per car enter the park. Today, 57 cars had 4 people, 61
cars had 2 people, 9 cars had 1 person, and 5 cars had 5 people. What is the average number of people per
car? Round the nearest person.
a) 2 b) 3 c) 4 d) 5
16. How much greater is 0.0543 than 0.002?
a) 0.0343 b) 0.0072 c) 0.0523 d) 0.0563
17. Jeff is 5 years older than Laura, and was twice her age 3 years ago. How old is laura?
a) 5 b) 6 c) 7 d) 8 e) 9
18. The ratio of boys and girls in a class is 5 to 6. Which of the following could be the number of boys in the
class? Indicate all possible answers.
a) 5 b) 7 c) 11 d) 18 e) 15
19. Four business partner share the profit in the ratio of 6:3:2:1. If the profit is 36000, find the largest
share.
a) 1800 b) 18000 c) 2800 d) 28000 e) None of these
20. Salaries of A and B are in the ratio of 2:3. If the salary of each is increased by Rs. 4000 the new ratio
becomes 40: 57. What is B"s present salary?
a) 34000 b) 38000 c) 27000 d) None of these
21. The area of the circle is 16π . The length of the diameter of the circle is:
a) 2 b) 32 c) 4 d) 16 e) 8
22. Successive discounts of 10% and 15% is equivalent to a single discount of:
a) 24% b) 24.5% c) 23.5% d) 22% e)25%
Hint: successive discout (decrease) = $(-x - y + \%)$
22. If Hammad can finish a job in 5 hours and Mubeshercan finish the same job in 10 hours, how many
minutes will it take both of them together to finish the job?
a) 210 b) 220 c) 160 d) 180 e) None of these
Hint: To do a job combine total time =)days
23. What percent of 25 is ?

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a) 50%	b) 25%	c) 33 %	d) 20%	e) 75%		
16. If = , then $x = ?$	-,	,	.,	.,		
a) 2	b) 8 c)	d)	e) 3			
,	, ,			ge of his last 2 tes	ts is 80, what is his averag	ge
score for all 5 te				C	,	_
a) 85		c) 89 d)	88 d) 8	37		
,					the work in 18 days?	
a) 2	b) 6 c) 3	d) 5	d) 4		•	
26. Of the 20 people	e who won pri	ze money, 7	have come for	orward to claim th	eir winnings. What perce	nt of
the people have						
a) 35	b) 20 c) (e) 42	-		
27. If x is increased			by 10% , the	resulting number	s will be equal. What is the	ne
ratio x to y?		v .			1	
a) b)	c) / d)	e) None	e of these			
28. If $x = 235$ and y						
	b) 100	c) 115	d) 352		1	
29. If $x^2 + y^2 = 9$ an	$d(x - y)^2 = 3$,	what is the v	alue of xy?	1		
a) 16) 6 d) 3		7	A	
30. If the sum of tw	o numbers is 3	6, and the la	rger is three	times as larger as	the smaller, what is the la	rger
number?		1 6		7 /		
a) 27	b) 30	c) 15 d)	18			
31. If p, q and r are	different prin	e numbers le	es <mark>s than 15, v</mark>	what is the greates	t possible value of =?	
a) 9	b) 2 c)	13 d) 12				
32. What is the valu	e of x if = 243	?		1		
a) 3 b) 5	c) 7 d) 4	CA		.61	/	
		47	100	CYO		
			PHYSI	CS		
			- 10			
Q.1: SI unit of to						
a). N.m	b) joul	e c)	Both a and	b are correct d	Neither a nor b is corre	:ct
Q.2: Electrons						
,	exist inside the		_	· ·	nside the nucleus	
	exist both insic		e the nucleus	d) Do no	ot know	
Q.3: The charge						
		b) Zero	c) Min	us 1.6 x 10-19C o	l) No definite charge	
Q.4: Ideal fluid i						
a). Non-				c) Steady flow		
		the value of	g changes).	f we use a simple	pendulum as time standar	rd then
one-second dura		.5 V	SL	3111		
a).Increa		b) Decreas		mains the same		
		-		ctly proportional t	0?	
a). The square ro	•	·	The amplitu			
c) Reciprocal of			Square of an		1 10 1 1 1 1	
	•	el to a meter	stick at very	high (relativistic)	speed and finds that the l	ength
of meter stick is-						
a) . greater than				·	d) a foolish question	
					If h is Planck"s constant	& c
the speed of ligh					1) 1	
a) . λ		ed of sound		U	d) h	_
Q.9: A point who	ere the inciden	t parallel ray	s of light cor	iverge or appear to	diverge after passing thr	ough

a lens is called -----?

a). center of curvature b) focus c) optical center d) aperture Q.10: Numerical value of Boltzmanns constant is-----?



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a). 1.38×10-31JK-1 b) 3.18×10-31JK-1 c) 3.18×10-23JK-1 d) 1.38×10-23JK-1	
Q.11: Petrol engine is a? a). C.I engine b) SI engine c) IC engine d) all the above Q.12: The resultant of two forces of equal magnitudes is also equal to the magnitude of the forces. The	
angle between the two forces is? a). 30° b) 60° c) 90° d) 120°	
Q.13: Two vectors are A = 3i^+2j^ -k^& B = 3i^-2j^ +k^ , then? a). B is anti-parallel to A b) B is a negative vector of A c). B has a negative magnitude d) B is perpendicular to A	
Q.14: A body in equilibrium? a) . Always at rest b) Always in uniform motion	
c). May be at rest or in uniform motion d) May be at rest or in motion	
Q.15: Transuranic elements have an atomic number?	
a). Greater than 72 b) Greater than 82 c) Greater than 92 d) Greater than 102 Q.16: Mass of neutron is?	
a). 1.67 x 10-31 kg b) 1.67 x 10-27 kg c) 9.1 x 10-31 kg d) 1.67 x 10-19 kg	
Q.17: Centripetal force performs?	
a). Maximum work b) Minimum work c) Negative work d) No work	
Q.18: The planet nearest to the earth is?	
a). Venus b) Mercury c) Uranus d) Sun	
Q.19: The restoring force acting on the simple pendulum is given by?	
a). $mg \sin \theta$ b) $mg \sin \theta$ c) $mg \cos \theta$ d) $mg \cos \theta$	
MATHEMATICS	
6/15 - 45	
1. What is the average of first 150 natural numbers?	
(A) 70 (B) 70.5 (D) 75.5 2. $0.003 \times 0.02 = ?$	
(A) 0.06 (B) 0.006 (C) 0.0006 (D) 0.00006	
3. What is the average of the numbers: 0, 0, 4, 10, 5, and 5?	
(A) 2 (B) 3 (C) 4 (D) 5	
4. $ -4 + 4 - 4 + 4 = ?$ (A) 0 (B) 2 (C) 4 (D) 8	
5. What is the value of x in the equation $3x - 15 - 6 = 0$?	
(A) 7 (B) 8 (C) 9 (D) -9	
6. What is the area in cm2 of the shaded region in the diagram below?	
(A) 6 (B) 7 (C) 8 (D) 9	
7. If A completes a particular work in 8 days and B completes the same work in 24 days. How many day	'S
will it take if they work together?	
(A) 4 (B) 5 (C) 6 (D) 7	
8. What comes next in the sequence: 1, 3, 11, 43,?	
(A) 161 (B) 171 (C) 181 (D) 191	
9. $42 + 4 + -4 - 42 = ?$ (A) -4 (B) 0 (C) 4 (D) 8	
(A) -4 (B) 0 (C) 4 (D) 8 10. What is the value of x in the equation	
(A) 12 (B) 14 (C) 16 (D) 18	
BIOLOGY	

1. Which component of	of the body works	as an energy storage device?	
(A) Fats	(B) Proteins	(C) Liver	(D) Skin

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2. Plants absorb most pa	art of water needed	by them through their	•				
(A) stem	(B) root hairs	(C) leaf	(D) bark				
3. Aboutof the	he body weight of a	a mammal is water.					
(A) 60%	(B) 65%	(C) 70%	(D) 75%				
4. On wound	fight foreign partic	cles, like bacteria.					
(A) White Blood cells		Blood Cells	(C) Platelets	(D) Plasma			
5. All enzymes are prot	tein which are						
(A) globular	(B) fibrous	(C) helical	(D) all of these	;			
6. Cilia are produced fro	om						
(A) mitochondria	(B) cell-m	n <mark>em</mark> brane	(C) centriole	(D) cytoplasm			
7. Which of the following	ng disease is not ca	used by virus					
(A) T.B $(B) AII$	OS (C	C) HIV	(D) flu				
8. Which of the following	ng is a filamentous	alga					
(A) ulva	(B) chlorella	(C) acetabularia	a				
(D) spirogyra							
9. Which of the following	ng is not sac fungi						
(A) truffles	(B) yeasts	(C) mushrooms	(D) morels				
10. "Cassia fistula" is tl	he s <mark>c</mark> ientific name o	of					
(A) amaltas	(B) rose (C	C) onion	(D) tomato				
11. Phage virus consists	of head and						
(A) thorax	(B) neck	(C) tail	(D) none of these				
12. Bacteria without any flagella are called							
(A) monotrichous	(B) atrich	ous (C) per	ritrichous (D) lop	hotrichous			
			4				

Never Stop Until You Have Done Completely And Truly.

(Taimoor Hassan) CEO PASS Education System

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