# NATIONAL OLYMPIAD STUDENT OF THE YEAR AWARD

Celebrating Excellence in Educational Leadership

	2023 Scre	eening Exami	nation Guide
Duration: 90 Minutes	ATTEMPT ALI	QUESTIONS	SENIOR SEC. CATEGORY
1. A real estate company dep property acquired three ye	ars ago at <del>N</del> 4,000,000?	% per annum. What	
[A] №2,800,000 2. A rectangular picture meas	[B] <del>N</del> 3,600,000 suring 8cm by 6cm is en		[D] N2,916,000 1.5cm wide, calculate the area
of the frame. [A] 51cm <sup>2</sup> [C] 48cm <sup>2</sup>	6cm		[B] 33cm <sup>2</sup> [D] 23.3cm <sup>2</sup>
3. A cyclist rode for 8 hours a altogether he covered a dis [A] 4000km/h	<u> </u>	culate his average s	
L 3	trimmed in such a way rea reduced?	its circumference is	reduced in the ratio of 3:5, in
[A] 9:15 5. Derive the equation whose	e roots are 1 and $-\frac{2}{3}$	[C] 9:25	[D] 5:3
savings. Calculate her mo	a and 2/5 of the remain nthly stipend.	ing amount on char	ity and had <del>N</del> 9,000 left for
<ul><li>[A] №36,000</li><li>7. X varies directly as the square what could be the value o</li></ul>	uare of y and inversely	as the cube root of z	
[A] 8 8. The mean score of a group	[B] 6 of students who passe	[C] 2 3 d African Mathemat	[D] 9 ics. Olympiad exam in
	en students who failed	the exam with a cun	nulative score of 200 is added
9. Calculate the perimeter of [A] 36cm [C] 48cm		x+2 $2x-1$	[B] 18cm [D] 14cm
much was generated from	rom registration. If the largest ration if the first	pest student got $40\%$ runner up got $\$70$ ,	and the third got 25%, how 000?
[A] N800,000 11. If 5 men dig 10 deep wel [A] 28	[B] <del>N</del> 600,000 ls in 8 days, how many [B] 36	[C] N400,000 wells can be dug by [C] 40	[D] <del>N</del> 200,000 7 6 men in 24 days? [D] 48
12. Calculate the surface are [A] 2992cm <sup>2</sup>	ea of a cylinder of base [B] 4309cm <sup>2</sup>	radius 14cm and h [C] 5229cm <sup>2</sup>	eight 20cm in cm <sup>2</sup> ( $\pi = 22/7$ ). [D] 9292cm <sup>2</sup>

13.A pentagon has four of its angles equal. Find the size of each of the four angles if the fifth angle is

 $[C] 125^{\circ}$ 

 $[\bar{D}] 60^{\circ}$ 

[B]  $120^{\circ}$ 

 $60^{\circ}$ . [A]  $108^{\circ}$ 

14. Calculate the area of the rectangle. [B] 112cm<sup>2</sup> [A] 44cm<sup>2</sup> 3a - 2b + 2[D] 120cm<sup>2</sup> [C] 78cm<sup>2</sup> 15. The ages of three friends are in the ratio of 3:4:5. If the difference in age between the youngest and eldest friend is 54 years, find the sum of the ages of all three friends. [A] 108 years [B] 432 years [C] 324 years [D] 135 years 16. If the Mean of the table below is 5, what is the probability that a student picked at random scored below the mean score? Scores 4 5 [A] 7/40 [B] 1/8 Frequency y-1 9 У [C] 5/8 [D] 3/8 17. The Venn diagram shows the percentage of students who participated in various sports in a survey of 500 students. How many students participated in a single sport only? [A] 41students [B] 75 students Golf (12) [C] 205 students [D] 195 students Tennis 5 football 18. Find the sum of the first seven terms of a G.P with third and fifth terms as 16 and 64 respectively. [A] 256 [B] 386 [C] 1024 [D] 508 19. Rearrange in descending order of magnitude.  $47_{eight}$ ,  $64_{six}$ , and  $72_{five}$ . [A]  $64_{\text{six}}$ .  $47_{\text{eight}}$  and  $72_{\text{five}}$  [B]  $72_{\text{five}}$ .  $47_{\text{eight}}$  and  $64_{\text{six}}$  [C]  $47_{\text{eight}}$ ,  $64_{\text{six}}$ , and  $72_{\text{five}}$  [D]  $72_{\text{five}}$ .  $64_{\text{six}}$  and  $47_{\text{eight}}$ 20. In the diagram, O is the centre of the circle CIf < ABC = 68, find the value of < CAB  $[B] 68^{\circ}$ [A]  $90^{\circ}$ [C] 22° [D] 34 21. A pole of length 30cm was measured as 31.7cm. Calculate the percentage error to 2 S.F. [A] 5.6 [B] 5.67 [C] 5.4 [D] 5.7 22. The volume of a certain sphere is numerically equal to twice its surface area. Find its diameter. [B] 9 [C] 12 23. P and Q are two sets such that n(PUQ) is 50, n(P) is 40 and n(Q) is 18. What is n(PnQ)? [C] 32 [B] 8 [D] 58 24. For what value(s) of x is the expression 2(x - 1) undefined?  $\mathbf{x}^2 - \mathbf{9}$ [A] x = 0 or 3 [B] x = 1 or -3 [C] x = 3 or -3[D] x = -1 or 3 25. In the figure, ABCD is a parallelogram, AC = CQ and  $\angle CAQ = 53^{\circ}$ . Calculate the size of  $\angle BAQ$ [A] 74° [B] 106° [C] 127° [D]  $53^{\circ}$ 26. If the sum of x, (x + 10) and (3x - 15) is an obtuse angle, what could be the value of x?  $[C] 15^{\circ}$  $[A] 35^{\circ}$  $[B] 40^{\circ}$ 27. An airplane flew ykm due east to a point P and continues ykm due north to point Q. Find the bearing of Q from the starting point.

[B] 225°

 $[A] 315^{\circ}$ 

 $[C] 135^{\circ}$ 

 $[D] 45^{\circ}$ 

28.	The pie-chart shows the revenue allocation pattern for five states in Allocation accrued to Kano State if the total revue was 17% [A] 17% [B] 15% [C] 22.5% [D] 27%
29.	A car travels at an average speed of 216km/h. How long will it take the car to arrive a destination
	that is 960 meters ahead?
30	[A] 60 seconds [B] 8 seconds [C] 16 seconds [D] 36 seconds In the diadram, O is the centre of the circle, $\langle UOT = 74^{\circ} \text{ and } \langle RST = 110^{\circ}, Calculate \langle RUO \rangle$
<i>5</i> 0.	[A] $17^{\circ}$
	$18153^{0}$
	$\begin{bmatrix} C \end{bmatrix} 70^{\circ}$
	$[D] 106^{\circ}$
	T
	CIVIC EDUCATION
31.	The smooth operation of the public service in Nigeria is being hampered by?
22	A. debt burden B. adequate training C. privatization Which of the following is not a major reason for political apathy?  D. bribery and corruption
<i>32.</i>	A. political violence B. unfulfilled promises C. bad governance D. Cross carpeting phenomenon
	The most suitable type of democracy for a small village or community is
```	'A. constitutional democracy B, indirect democracy C. communal democracy D. direct democracy
34.	Operation of the rule of law could be undermined by?
	A. existence of civil society groups C. establishment of administrative tribunal D. encouragement of effective opposition
35.	In a democratic government, franchise is given to all
	A. Party members B. resident adults C. adult citizens D, opinion; leaders
36.	Which of the following concept can guarantee adherence to the rule of law.?  A Political Immunity  B. political gerrymandering
	A Political Immunity  C. National development  B. political gerrymandering  D. Representative democracy
37.	The body established and entrusted with the power and authority to direct the affairs of a State is .
	A. Federal executive council B. State Legislative C. Trusteeship D. Government
<i>3</i> 8.	One of the functions of local government is  A. settlement of intra party crisis  B. Making of bye laws
	C. formulation of monetary policies  D. delimitation of constituencies
39.	The universal declaration of human rights (UDHR) was adopted by
	A. Economic Communities of west African States C. African Union B. United Nations Organization? D. European Union
40.	C. African Union In the contemporary society, youths can display nationalistic role in the following ways EXCEPT
	A. discouraging corrupt practices. B. exploiting the environment for the people of the community
4.1	C. contributing to the development of the society. D. showing indifference to National values
41.	The establishment of NDLEA by the government was a measure to
	A. make drugs available for the masses C. encourage the use of illicit drugs B. prevent drug abuse D. support importation of drugs
42.	Which of the following is NOT a common way by which people take drugs?
	A. ingestion B. injection C. intrusion D. Inhalation
43.	Which of the following is NOT a skill for settling inter-communal conflict?  A. war  B. dialogue  C. mediation  D, arbitration
44.	Who established the first political party in Nigeria?
	A. Ahmadu Bello B. Obafemi Awolowo C. Herbert Macauley D. Nnamdi Azikiwe

45	The National Party of Nigeria A. First B. Secons Nigeria operates a Confederal B. Flex	existed during the	Third	_ republic? .	. Fourth
46.	Nigeria operates a cons	titution C	. Hill u	L	
	A. Confederal B. Flex	xible C	C. Rigid	I	O. Unitary
47.	The Nigerian 1979 constitution	on is an example of a	a?		
	A. confederal constitution B		C. unit	ary constitution l	D. written constitution
48.	Bicameralism refers to	legislature	G 0	1 1	D.1. 1. 1
40	A. one chamber B. Tv	vo chamber	C. four c	chambers	D. three chambers
49.	The Federal Road Safety Con	mmission (FRSC) wa	as establi	sned in the year?	D.1990
50	A. 1978 B. 19 The Supreme Court of Niger  A Application B. In	io helps in law	C1989	J	J.1990
	а аррисанон — Б ш	tempreiamon	C DIHO	rcement	D. Drafting
51.	Which of the following instru A. Propaganda B. Be	ument is not used by	a civil so	ociety group?	2. 214111115
	A. Propaganda B. Be	oycott	C. Prote	est	D. Violence
52.	Rates are collected in Nigeri	a by			
	A. Federal Inland Revenue S	Service	Е	3. State Ministry	of Finance
	C. Local government counci	1	. (	3. State Ministry C. Council of trad	itional rulers
53.	In the public service, another	name for red-tapism	1 1S	••••	D. D.
<i>-</i> 1	A. Theocracy  Which of the following is NO	reaucracy	C. Auto	ocracy	D. Democracy
34.	A Creation of amployment	onnortunities	enance?	novation and Cr	antivity
	A. Creation of employment of C. Diversification	opportunities	D. III	uest for white co	talivity llar joh
55.	In the constitution, the area v				
	A. Residual List B. Co	ncurrent List	C. Ex	clusive list	D. Reserved List
56.	One of the skills that can be u	used in resolving int	er- comn	nunal conflicts is	?
	A. Coercion B. Me	ediation	C. Sup	opression	D. Harassment
57.	Road signs primarily serves a	as			
	A. symbols to correct road us	sers B. sign to aid fe	ederal roa	ad safety corps to	apprehend defaulters
<b>5</b> 0	C. device to guard traffic of p	olice command	D. precai	itionary devices	to guide users.
٥٥.	Which of the following should A moral development B religious	id NOT de elicourage	ed by a fo	tual development	D mutual respect
59	Chapter IV (four) of the 1999	constitution is about	n C spirii it	idai developinen	D. mutual respect
٠,	A composition of the Nation	al Assembly	R	fundamental hu	man right
	A. composition of the Nation C. procedures for the impead	chment of the preside	ent. D	. information on	guorum in the senate.
60	The standards considered eth	ical by an individual	or the so	ociety is known a	s?
	A. Dignity B. Righ			D. Mater	
	<b>.</b>	NOT TOTAL A NOTA	CE		
INI	<u>El</u> STRUCTION: IDENTIFY T	NGLISH LANGUA		WODD IN EAC	TH SENTENCE
61.					
01.	C	•		eliorate	(D) ameliorate
62.	Our journey towards Natio	onhood is sometimes t	aced with	h chal	
02.	(A) summountable (E				(D) surmoutable
63.	is an infection of	the lungs often cause	ed by bact	teria and fungi.	(B) surmound to
			(C) pneu		(D) pnemonia
64.	The era signaled	a rebirth in modern h	istory.		( ) 1
- <b>-</b>	(A) rennaisance (H	B) renaissance	(C) renn	naissance	(D) renaisance
65.	helps to achiev	e efficiency and cont	rol in an c	organization.	(D) 1
66.	(A) burueaucracy (Frequent hikes in the prices	of natrology	(C) burei	icracy	(D) bureaucracy
υU.	(A) exacebated (F	s of penoleum produc S) exercabated	(C) evac	uie problei erhated	(D) execarbated
67.	The prime minister has call	ed for the	of the reb	el groun	(D) CACCAIDAIGU
٥,,		3) annihiliation			(D) annihilation
	( )	/	` /		

68.	Adekunle displayed hi (A) mannoveured	s driving skills when h (B) manoeuvred	ehis vehicle (C) maneuovered	e into the parking lot. (D) manouevred
69.	The new language teach	er has an excellent ma	stery of German	
70.	(A) pronounciation The between	n the warring parties is	slated for next week	(B) pronunciation
, 0.	(A) rendezvous	(B) rendevous	(C) rendervous	(D) rendazvous
IN	STRUCTION: IDENTI	FYTHE WORD NEA	AREST IN MEANI	NG IN EACH SENTENCE
71.	The solution to the equation	on is on the <b>PENULTI</b>	MATE chapter of the	e book.
	(A) final	(B) first	(C) second	(D) last but one
72.	Electoral violence and m			
	(A) sympathy			
73.	The activities of the separ	ratist group have been	PROSCRIBED by	the government.
	(A) institutionalized			(D) legalized
74.	The mood at the PTA me	eting was <b>BELLIGE</b>	RENT.	
	(A) friendly	(B) reassuring	(C) calm	(D) hostile
75.	The trial judge insisted the	nat the accused was <u>C</u>	<b>COMPLICIT</b> in the	murder case.
	(A) innocent	(B) framed	(C) blameless	(D) colluding
76.	The Senegalese National	team went to the wor	rld cup as the <b>DARK</b>	<u>K HORSE.</u>
	(A) champion	(B) previous winners	s (C) under dog	(D) favourite
77.	Fatima became <b>TIMOR</b>	OUS as soon as she w	vas asked to present	the valedictory speech.
	(A) proud	(B) nervous	(C) excited	(D) surprised
78.	The market woman <b>AVE</b>	RRED her son was b	rutalized by the poli	ice.
	(A) swore			
79.	Mr. Bello is <b>FRUGAL</b> in			
	(A) prudent	(B) impulsive	(C) lavish	(D) extravagant
80.	The banker expressed <b>RE</b>	<b>ESÉRVATION</b> over h	ner decision to invest	t in the stock market.
	(A) optimism			
	· · · ·	. ,		. ,
				G IN EACH SENTENCE
81.	The press was forced to			
0.0		(B) withdraw		
82.	Public outcry made the n	nilitary to <b>RELINQU</b>		
02	(A) acquire	(B) hand over	(C) retain	(D) wield
83.	The students were <b>UND</b> ! (A) unfazed	(P) uninterrupted	(C) discouraged	(D) undigturbed
Ω4	Mr Kola's investment in	(B) uninterrupted shares has <b>DFPRF</b> C	IATED	(D) undisturbed
οτ.	(A) stagnated	(B) appreciated	(C) declined	(D) liquidated
85.	The policeman was filled	with <b>SCORN</b> when	he heard our side of	the story.
·	(A) disdain	(B) rage	(C) surprise	(D) respect
86.	The <b>COVERT</b> activities	of bandits have become	me a source for cond	
	(A) wicked	(B) dangerous		(D) overt
87.	Bola has a <b>CYNICAL</b> p	· ·		(2) 3 ( 31)
· , •	(A) skeptical	(B) silly	(C) biased	(D) optimistic
QQ	The decision to travel for			· / -
00.		(B) plausible		(D) divisive
QΩ	The minister's attempt to			
υ <b>Э.</b>	(A) insincere			
90	After the war, the conque	red territories hecam	e increasingly VINI	OICTIVE
70.	(A) vengeful			
	(A) veligetul	(D) aligiy	(C) uoiiiiiaiii	(D) IUISIVIIIS

INSTRUCTION: IDENT	IFY THE OPTION T	HAT CORRECTLY	FILLS THE GAP
91. The minister (A) rounded up 92. The secretary acted in a	(B) rounded of accordance lai	(C) rounded in d down instructions.	(D) rounded off
(A) to	(B) for	(C) from	(D) with
			that all faulty cars will be
(A) repaired 94. Mr. Jack has throw in the (A) won		(C) auctioned orship race. This mean (C) given up	(D) replaced ns that he has the election. (D) lost
95. There is no love lost be	tween Jane and Joe. Th	nis means Jane and Jo	
(A) lovers	(B) friends		(D) foes
COMPREHENSION PAS	SSAGE		
Politics in pre-colonial time	es did not involve the p	artisan type of electi	oneering campaign that we
now have. The society was	ruled by a king or an e	mir and his tradition	al chiefs or by the council of
elders or clan heads. Where			
Queen Amina of the Zazza	ne unrone was manny p u Empire who ruled in	the 15th century A	d exception was the case of
7	<del>-</del>	<del>-</del>	omen village rulers abound,
			female chiefs and regents still
=			s economic <b>SWAY</b> and it took
a lot of drive, brain work a		=	
			could boast of such women
who were actively engaged			could boast of such women
• • •			emonstrated ability in fostering
_		_	clan is given focus either through
	_	<u> </u>	l. Women through these organs,
		_	unity as a whole or females in
		_	d as a result of mounted pressure
			ken by the men without prior
consultation with the leader		<del>-</del>	ken by the men without prior
			pation in politics was yet much
limited when compared to the		ree or women parties	pation in pointes was yet maen
96. Electioneering campaig	gn and partisanship are f	eatures of the	
A. pre-colonial politica	_		
97. Which of the following s			
			s over their male counterparts.
-	s a rare example of fema		
•	dancy was mainly here		
	plete recorded history		
98 Which of the following	statements is INCORI	RECT in the Igbo soc	ciety?
			re organized into structures
C. personal accomplis	shments determines lead	dership D leadersh	ip is an inheritance
99. The writer at least concl	uded that		
A. women are better l			tion mustn't be inherited
C. women must have	· ·		ent in politics and leadership
100. Another word that car	_		
A. influence	B. interest	C. resources	D. right