



#### DNS – SAMPLE QUESTION PAPER

Max Marks: 100 Duration: 70 mins

**Total Qns:45** 

#### **Instructions:**

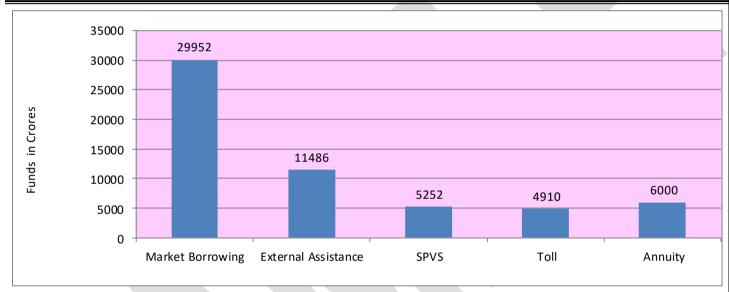
- **Question no 1 to 44 are of objective type and carry different marking Scheme.**
- > Question no 45 to be written separately.

Testing area: Visual perception and processing (VPP)

 $(10 \times 2 = 20)$ 

The following bar-graph shows the sources of funds to be collected by the National Highways Authority of India (NHAI) for its Phase II projects. Study the bar-graph and answer the question that follows. (Question number 1 to 5)

Sources of funds to be arranged by NHAI for Phase II projects (in croresRs.)



1.	What percentage (approximately) o	f total funds is to be arranged through Market Borrowing
	(A) 52 %	<b>(B)</b> 60 %
	(C) 38 %	( <b>D</b> ) 82 %
2.	Near about 20% of the funds are to	be arranged through:
	(A) SPVS	(B) External Assistance
	(C) Annuity	(D) Market Borrowing
3.		9695 crores as External Assistance, by what percent he Market Borrowing to arrange for the shortage of funds?
	(A) 4.5%	<b>(B)</b> 7.5%
	<b>(C)</b> 6%	<b>(D)</b> 8%
4.	The approximate ratio of the funds Borrowing is	to be arranged through Toll and that through Market
	<b>(A)</b> 2: 9	<b>(B)</b> 1: 6
	<b>(C)</b> 3: 11	<b>(D)</b> 2: 5





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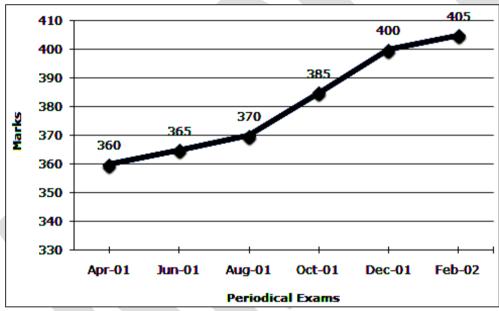
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5.	com	mission, how much an	through an outsourced ag nount should be permitted rted with Rs. 4910 crores	to be collected by the	
	(A)	Rs. 6213 crores	(B)	Rs. 5827 crores	
	(C)	Rs. 5401 crores	(D)	Rs. 5316 crores	

In a school the periodical examination are held every second month. In a session during April 2001 - March 2002, a student of Class IX appeared for each of the periodical exams. The aggregate marks obtained by him in each periodical exam are represented in the line-graph given below. Marks Obtained by student in Six Periodical Held in Every Two Months During the Year in the Session 2001 – 2002. Answer the following questions based on the following line graph. (Question number 1 to 5)

#### Maximum Total Marks in each Periodical Exam



6.	What is the percentage of marks obtained by the student in the periodical exams of August, 01 and Oct, 01 taken together?			
	(A) 73.25 %	<b>(B)</b> 75.5 %		
	(C) 77 %	<b>(D)</b> 78.5 %		
7.	In which periodical exams did the over the previous periodical exams	student obtain the highest percentage increase in marks?		
	(A) June, 01	<b>(B)</b> August, 01		
	(C) Oct, 01	<b>(D)</b> Dec, 01		
8.	What are the average marks obtainsession?	ned by the student in all the periodical exams during the last		





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	(A) 373	(B)	379	
	<b>(C)</b> 381	(D)	385	
9.	The total number of marks o April 01?	btained in Feb. 02 is wha	at percent of the total marks obtained in	1
	<b>(A)</b> 110 %	(B)	112.5 %	
	(C) 115 %	(D)	116.5 %	
10.	In which periodical exams th periodical exams?	ere is a fall in percentag	ge of marks as compared to the previous	
	(A) None	(B)	Oct, 01	
	(C) June, 01	(D)	Feb, 02	
Testing	area: Information processing sp	eed (IPS)	$(4 \times 2.5 = 10)$	

Questions: Read the hints and answer the questions.

The first step is for us to realize that a city need not be a frustrater of life; it can be among other things, a mechanism for enhancing life, for producing possibilities of living which are not to be realized except through cities. But, for that to happen, deliberate and drastic planning is needed. Towns as much as animals must have their systems of organs-those for transport and circulation are an obvious example. What we need now are organ systems for recreation, leisure, culture, community expression. This means abundance of open space, easy access to unspoilt Nature, beauty in parks and in fine buildings, gymnasia and swimming baths and recreation grounds in plenty, central spaces for celebrations and demonstrations, halls for citizens' meetings, concert halls and theatres and cinemas that belong to the city. And the buildings must not be built anyhow or dumped down anywhere; both they and their groupings should mean something important to the people of the place.

	1			
11.	The	author talks about 'Unspoilt Nature'. In w	hat wa	ny can Nature remain unspoilt?
	(A)	If Nature is not allowed to interfere with people's day-to-day life.	(B)	By building cities with the system of organs like those of animals.
	(C)	By allowing free access to parks and open spaces	(D)	By allowing Nature to retain its primitive, undomesticated character.
12.	The	word 'drastic' in the passage means :		
	(A)	orderly	(B)	powerful
	(C)	consistent	(D)	determined
13.	The	opening sentence of the passage implies th	at:	
	(A)	the possibilities of living a decent life cannot be found in a city.	(B)	only a city can provide the means to lead a full life.
	(C)	among other places, a city can also help man to lead a successful life.	(D)	a city provides better opportunities for good living than a village.
14.	Acco	ording to the author, the function of a city	is to :	



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# SAMUNDRA INSTITUTE OF MARITIME STUDIES



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	(A) provide adequate community expression.	(B)	make available centres of recreation and public gatherings.
	(C) facilitate traffic and communication.	(D)	raise the tone of life and make it more meaningful.
Testing a	rea: Science and Abstract reasoning (SAR)		$(10 \times 2 = 20)$
15.	A 100 N force acts horizontally on a block of 10		
	coefficient of friction = 0.5. If g at the place is 1		
	(A) $zero m/s^2$	(B)	$10 \text{m/s}^2$
- 10	(C) $5 \text{m/s}^2$	(D)	5.2m/s <sup>2</sup>
16.	An open pipe is suddenly closed at one end wit of the closed pipe is found to be higher by 100 pipe. The fundamental frequency of the open	Hz tha	in the fundamental frequency of the open
	(A) 200Hz	(B)	300Hz
	(C) 240Hz	(D)	480Hz
17.	Two bodies of masses m <sub>1</sub> and m <sub>2</sub> have equal K	E. Th	eir momenta shall be in the ratio of
	(A) $m_1: m_2$	(B)	m <sub>2</sub> : m <sub>1</sub>
	(C) $\sqrt{m_1}:\sqrt{m_2}$	(D)	$\sqrt{\mathbf{m}_2}$ : $\sqrt{\mathbf{m}_1}$
18.	kg.m/s <sup>2</sup> is the unit of		
	(A) momentum	(B)	speed
	(C) acceleration	(D)	force
19.	Melting of ice under increased pressure and recalled	freezi	ng again when a pressure is removed is
	(A) condensation	(B)	cooling
	(C) regelation	(D)	refrigeration
20.	Boyle's law is applicable in		TOTAL GOLDON
	(A) isochoric process	(B)	isothermal process
	(C) isobaric process	(D)	isotonic process
21.	If g denotes the value of acceleration due to grant of radius R.If r < R, then		•
	(A) $g \alpha r^2$	(B)	gαr
	(C)	(D)	gα1/r
	$g \alpha 1/r^2$	. ,	5 00 1/1
22.	What comes next in the given series? ZA <sub>5</sub> , Y <sub>4</sub> B, XC <sub>6</sub> , W <sub>3</sub> D,		
	(A) $E_7V$	(B)	$V_2E$





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Total Qns:4	15					mins
	(C)	VE <sub>5</sub>		(D)	VE <sub>7</sub>	
23.		t comes next in th				
	(A)	HGF		(B)	CAB	
	(C)	JKL		(D)	GHI	
24.	alter	•	ne alphabets are miss Choose the correct al	_	are given in that order a	s one of the
	(A)	abbba		(B)	abbab	
	(C)	baaab		(D)	bbaba	
Testing a 20)	ırea: S <sub>l</sub>	poken and writter	n language (SWL)			$(10 \times 2 =$
Answer	the foll	owing with the m	ost suitable option.			
25.			ric could not go to exciting game	footl	oall match that was held	onschool
	(A)	an,the,an,a		<b>(B)</b>	a the,an,a	
	<b>(C)</b>	a, the,the,an		(D)	the the,an	
26.	They	held out for som	e time but eventually	had to	in and admit defeat	.•
	(A)	set		<b>(B)</b>	take	
	<b>(C)</b>	cave		(D)	get	
27.	g	olden retriever is	a marvelous pet for	children.		
	(A)	a		(B)	an	
	(C)	None of these		(D)	the	
28.	A co	ommon noun for t	the pronoun "he" wo	uld be	•	
	(A)	him		(B)	. George	
	(C)	man		<b>(D)</b>	his	
29.	She	is sitting a cha	ir.			
	(A)	above		<b>(B)</b>	over	
	<b>(C)</b>	at		(D)	on	
30.	publ	United States hic transit	as encouraged the us	se of the pr	ivate automobile as opp	osed to the use of
	(A)	None of these		<b>(B)</b>	the	
	(C)	a		<b>(D)</b>	An	





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	When you go to seaside, remember r	ot to sw	im near rocks.
	(A) No article	<b>(B)</b>	the, the
	(C) an	(D)	An, an
32.	Be sure that everyone brings	own bool	k
	(A) It's	<b>(B)</b>	their
	(C) theirs	(D)	his
33.	They will inform the police.		
	(A) The police are informed by them.	<b>(B)</b>	The police will be informed by them.
	<b>(C)</b> Informed will be the police by them.	<b>(D)</b>	The police will inform them.
34.	I think that sign means we enter t	he build	ing. Look, there's a security guard too.
	(A) won't	<b>(B)</b>	have to
	(C) mustn't	(D)	couldn't
esting a	area: Mathematical calculation (MC)		$(10 \times 2 = 20)$
35.	The sum of three integers in A.P. is 15 and th	ieir prod	luct is 80. The integers are
	(A) 4, 5, 6	(B)	0, 5, 10
	(C) 2, 5, 8	(D)	None of these
36.	The value of (tan1° tan 2° tan3° tan 89°) is		
	(A) 0	(B)	1
	(C) 2	(D)	1/2
	If $cosx = sin(cot^{-1}1)$ , then $x = ?$		
37.	1) cosx — sin (coc 1), then x .		
37.	(A) $30^{\circ}$	(B)	$60^{0}$
37.		(B) (D)	$60^{0}$ $90^{0}$
37.	(A) 30° (C) 45°	(D)	900
	(A) $30^{0}$ (C) $45^{0}$ If $\tan A = \frac{1}{3}$ , $\tan B = \frac{1}{7}$ then what is the value	(D)	90° <b>1</b> + <b>B</b> ?
	(A) $30^{0}$ (C) $45^{0}$ If $\tan A = \frac{1}{3}$ , $\tan B = \frac{1}{7}$ then what is the value (A) $30^{\circ}$	(D) lue of 2.4 (B)	90° <b>1</b> + <b>B</b> ? 45°
	(A) $30^{\circ}$ (C) $45^{\circ}$ If $\tan A = \frac{1}{3}$ , $\tan B = \frac{1}{7}$ then what is the value of the v	(D) lue of 2.4 (B) (D)	90° <b>1</b> + <b>B</b> ? 45° 135°
38.	(A) $30^{0}$ (C) $45^{0}$ If $\tan A = \frac{1}{3}$ , $\tan B = \frac{1}{7}$ then what is the value (A) $30^{\circ}$	(D) lue of 2# (B) (D) in an ex	90° 4 + B? 45° 135°  amination such that he must choose at
38.	(A) $30^{\circ}$ (C) $45^{\circ}$ If $\tan A = \frac{1}{3}$ , $\tan B = \frac{1}{7}$ then what is the value (A) $30^{\circ}$ (C) $60^{\circ}$ A student is to answer 10 out of 13 questions	(D) lue of 2# (B) (D) in an ex	90° 1 + B? 45° 135°  amination such that he must choose at





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	(A)	600 m	(B)	680 m	
	(C)	720 m	(D)	900 m	
41.	Wha	at is the area of a largest r	ight angled triangle th	nat can be drawn i	inside a square of 7
	(A)	$14 \text{ cm}^2$	(B)	21 cm <sup>2</sup>	
	(C)	$24.5 \text{ cm}^2$	(D)	49 cm <sup>2</sup>	
42.		boys blow a balloon each. of the volume of the bigge			
	(A)	9	(B)	16	
	(C)	27	(D)	81	
43.		veen 0900 AM to 1200 Noo wall clock move?	on, what is angle throu	gh which the hour	hand and minute har
	(A)	90, 1080	(B)	120, 360	
	(C)	90, 540	(D)	180, 720	
44.		cket of water at 85°C is keep 75°C. How much more to			
	(A)	Less than 5 mins	(B)	5 mins	
	(C)	More than 5 mins	(D)	Data inadequate	
Testing :	area: L	etter Writing			$(10 \times 1 = 10)$
	1				
45.		e an application for the po	ost of an Accountant to rakash Building New D		

**======** ALL THE BEST ======