Question Booklet SL. No.

단점 약약에: 28

(ଜଫ୍ ଜାର୍ଯ୍ୟ ପାଇଁ ବୃକ୍କ ପ୍ରଶ୍ନା ସହିତ) ।

No. of pages : 28

(including two pages for

rough work)

ସମୟ : 90 ମିନିତ୍

Time: 90 Minutes

SSS - 2012-13

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Full Mark : 90

12 Digit Roll Number :

Exam. Code 2 State Code

Year 1 3 District Code

Center Code

Serial No.

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you answer the questions.

After going through them, if you wish to know anything get them clarified from the invigilator before the starting bell rings. Remember, you are not allowed to talk or ask anything once the starting bell rings.

Each question carries ONE mark Answer all the questions.

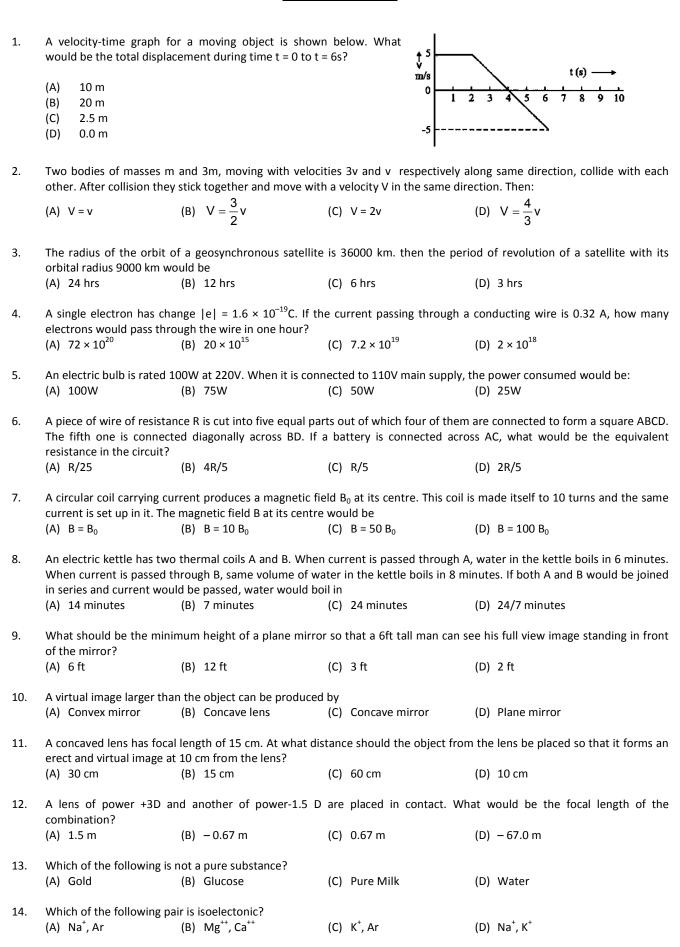
ପରାକ୍ଷାର୍ଥୀଙ୍କ ପାଇଁ ନିର୍ଦ୍ଦେଶାବଳୀ

ପ୍ରଶ୍ନ ଗୁଡ଼ିକର କରର କେବା ପୂର୍ବରୁ ନିର୍ଦ୍ଦେଶଗୁଡ଼ିକୁ ମନ ବେଲ ପଡ଼ । ଏଗୁଡ଼ିକୁ ପଡ଼ିସାରି ଅଦି ଜିଛି ବୃଝିକାର ଅଛି, ପରାକ୍ଷା ଆରଳ ପଞ୍ଜି ବାଳିକା ପୂର୍ବରୁ ନାରଞ୍ଚଳଙ୍କଠାରୁ ବୃଝିନିଅ । ମନେରଖ, ପରାକ୍ଷା ଘଞ୍ଜି ବାଡ଼ିସାହିକା ପରେ କଥାବାର୍ଗ କିନ୍ତୁ ପଡ଼ରା ଜଟରା କରିବା ପୂରାପୂରି ଚିଶ୍ରେଧ । ପ୍ରତ୍ୟେକ ପ୍ରଶ୍ରର ମୂଲ୍ୟ ଏକ ନୟର । ସମଷ୍ଟ ପ୍ରଶ୍ରର ଜନ୍ତର ଦିଅ ।

- Immediately after getting the booklet, write down your 12 digit Roll No in the box given above as per your Admission Card.
- Start answering when you are told to do so. On not turn the pages before that.
- Do not write anything in this Booklet except the 12 digit Roll No. However you can use the blank pages provided for the rough work at the end of this booklet.
- A separate OMR Answer Sheet is supplied for writing the answers. Write down your application from no. & 12 digit roll number on it.

- ଏହି ପୁର୍ତ୍ତିକାଟି ପାଇବା ମାତ୍ରେ କପରେ କିଆଯାଇଥିବା କୋଠରିରେ କୁମର ଆଡ଼ିମଶନ କାର୍ଡ଼ରେ ଜେଖାଥିବା ।
 12ଅକ କିଥିଷ କୋଇ ଜଣଣ ।
- 2. ସେଟେଟେକେ କୁହାଯିବ, କଲର ବେବାକୁ ଅଗଣ କର । ତା' ପ୍ରତିକ୍ର ପୃଷ୍ଠାକୁଡ଼ିକୁ ଜଳତାଅ ନାହିଁ ।
- 3. ତୁମର 12 ଅଟି ବିଶିଷ୍ଟ ଭୋଇ ନୟର କାତାତ ଅନ୍ୟ ତିଛି ଏହି ପୁର୍ତ୍ତିଆରେ କେଖ ନାହିଁ । ତିଲୁ ଏହି ପୁର୍ତ୍ତିକାରେ ଶେଷରେ ଉଫ୍ କାମ ପାଇଁ କେଖାଥିବା କାରକରେ ଉଫ୍ କାମ କରିଯାଇ ।
- 4. କଳର କେଥିବା ପାଇଁ ଖଣ୍ଡିଏ ଅଲଗା DMR କଲ୍ଲତ କାରକ ବିଆହାଇଞ୍ଚି । ସେଥିରେ କୁମର ବରଖଞ୍ଚ ଫର୍ମ ଙ'ଏଙ'12 ଅଙ୍ଗ ବିଶିଷ ରୋଲ କରର ରେଖ ।

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15. Which of the following element has highest electron-gain enthalpy?							
	(A) Oxygen	(B) Fluorine	(C)	Chlorine	(D)	Neon	
4.0	TI (AU/00)						
16.	The geometry of Ni(CO) ₄ (A) Tetrahedral	(B) Octahedral	(C)	Sauara planar	(D)	Pyramidal	
	(A) Tetraneurai	(b) Octanieurai	(C)	Square planar	(D)	Pyraiiiluai	
17.	The atomic number of th	nird alkali metal is					
	(A) 3	(B) 11	(C)	19	(D)	37	
18.		electrodes in batteries and co			(5)		
	(A) Diamond	(B) Graphite	(C)	Activated charcoal	(D)	Carbon bla	ack
19.	Identify the metal that o	ccurs in the native sate in na	ture				
13.	(A) Potassium	(B) Copper		Aluminium	(D)	Zinc	
20.	Silicon carbide is also known						
	(A) Carborundum	(B) Cyanogen	(C)	Silane	(D)	Silicone	
24	The chemical formula of	white within in					
21.	The chemical formula of (A) CuSO ₄ .5H ₂ O	(B) ZnSO ₄ .7H ₂ O	(C)	FeSO ₄ .7H ₂ O	(D)	MgSO ₄ .7H	.0
	(A) Cu3O4.5112O	(b) 211304.711 ₂ 0	(C)	16304.71120	(D)	Wig304.711	20
22.	Amount of sodium hydro	oxide present in 500 ml of 0.2	M so	lution is			
	(A) 4 gm	(B) 8 gm		40 gm	(D)	20 gm	
23.		2 is called as	(6)	C. albartana	(5)		
	(A) Water gas	(B) Producer gas	(C)	Synthetic gas	(D)	Marsh gas	
24.	When we smell a flower	, which one of the following f	irst re	eceives the scent?			
	(A) Dendrite of motor n	_		Dendrite of sensory ne	uron		
	(C) Axon of motor neur			Axon of sensory neuron			
25.		ing is secreted by pituitary gla			,_ ·		
	(A) Insulin	(B) Estrogen	(C)	Adrenaline	(D)	Growth ho	ormone
26.	Which one of the followi	ng first receives the pollen d	uring	fertilization?			
20.	(A) Stigma	(B) Style		Pollen tube	(D)	Female ga	mete
	(/0	()) -	(-/		` ,	0-	
27.	Which of the following to	wo diseases have no specific	treatr	ment?			
	(A) Hepatitis and influer		٠,	Tuberculosis and influe			
	(C) Leprosy and Hepatit	iis	(D)	Hydrophobia and Tube	rculo	sis	
28.	Chaosa the correct pairi	ng of fish and its feeding zone	from	the chaices given helev	.,		
20.	(A) Rohu-Bottom Zone	(B) Catla-Middle Zone		Common carp-Bottom		(D)	Mrigal-Surface Zone
	(A) Nona Bottom Zone	(b) Catia Miladic Zone	(0)	Common carp Bottom	_0	(5)	Willigar Surrace Zone
29.	Which two of the follow	ing animals belong to the san	ne Ph	ylum?			
	(A) Starfish and Nereis		(B)	Antedon and Starfish			
	(C) Antedon and Chiton		(D)	Nereis and Chiton			
20	Mhigh two of the follows	ina ara arawah arawatina ba		oo in mlant?			
30.	(A) Auxin and Cytokinin	ing are growth promoting ho		Gibberelin and Ethylen	_		
	(C) Abscisic acid and Au			Cytokinin and Ethylene			
	(-,		` ,	.,			
31.	Which one of the following	ing is having conducting tissu	e?				
	(A) Fern	(B) Funaria	(C)	Riccia	(D)	Marchanti	ia
22	AMILIAN SOLUTION						
32.		ing compound contains two of (B) Pyruvic acid			(D)	Glucoso	
	(A) Ethanol	(D) Fyruvic acid	(C)	Lactic acid	(ט)	Glucose	
33.	Which of the following to	wo are only applicable for bir	ds?				
	(A) Warm blooded and			Feather and breathing	by lu	ngs	
	(C) Warm blooded and	egg laying	(D)	Egg laying and with Fea	ther		

	(A) Sahiwal	(B) Holstein	(C) Brown swiss	(D) Jersy
35.	i. Stomata regulates thii. Stomata helps in the	tatements and choose the cone body temperature in plant absorption of minerals from (B) is false but it is true	S.	(D) Both i and ii are false
36.	If the sum of the two roo	ots of the equation $\frac{1}{x+a} + \frac{1}{x}$	$\frac{1}{+b} = \frac{1}{c}$ is zero, then the pro-	oduct of the two roots is
	(A) 0	(B) $\frac{a^2 + b^2}{2}$	(C) $\frac{a+b}{2}$	(D) $-\frac{(a^2+b^2)}{2}$
37.	The highest power of 2	by which the product of fir	st 100 counting numbers ca	an be divided without any remainder is
	(A) 97	(B) 96	(C) 95	(D) 94
38.	If $x + y + z = 1$, $x^2 + y^2 + z^2$ (A) $1/5$	$x^2 = 2$ and $x^3 + y^3 + z^3 = 3$ then t (B) $1/6$	the value of xyz is (C) 1/7	 (D) 1/8
39.		led three at a time give sums	180, 197, 208 and 222 respe	ectively. The largest of the four numbers
	is (A) 87	(B) 88	(C) 89	(D) 90
40.	The remainder when 1 ¹⁹⁹ (A) 0	$^{97} + 2^{1997} + \dots + 1996^{1997}$ (B) 1	is divded by 1997 is (C) 197	 (D) 1996
41.	If the product of 1000 pc (A) 1000	ositive integers is 1000 then the (B) 1999	heir maximum sum is (C) 2000	 (D) 2999
42.	If t_{11} and t_{16} of an A.P. are (A) 178	e respectively 38 and 73, then (B) 177	n t ₃₁ is (C) 176	(D) 175
43.	If $f(n+1) = \frac{2f(n)+1}{2}$, r	n = 1, 2, and f(1) = 2,	then f(101) =	
	(A) 53	(B) 52	(C) 51	(D) 50
44.		ides has perimeter 8 units. Th (B) $2\sqrt{2}$		
45.		•	•	spouse and no handshakes took place and shakes among these 26 people was
	(A) 230	(B) 22	(C) 233	(D) 234
46.	If the median of $\frac{x}{7}$, $\frac{x}{5}$, $\frac{x}{6}$	$(\frac{x}{3}, x, \frac{x}{4}, \frac{x}{3}, \frac{x}{2})$ is 8, then the v	value of x is	
	(A) 8	(B) 24	(C) 32	(D) 48
47.	If m = 7777 7777 i product m × n is (A) 890	s a 99 digit number and n = (B) 891	999 999 is 77 digit nu (C) 892	umber then the sum of the digits in the (D) 893
48.		2° + + sin²89° is		
	(A) 1	(B) 44	(C) $44\frac{1}{2}$	(D) 45
49.	If A + B + C = π and m \angle C (A) > 1	is obtuse then tan A. tan B is (B) < 1	(C) = 1	(D) ≤ 1

Which of the following is not a foreign breed cow?

unit	S.		_	•	e perimeter of the triangle is
(A)	24	(B) 32	(C)	36	(D) 72
The	reminder of 2005 ²⁰⁰	⁰² + 2002 ²⁰⁰⁵ when d	ivided by 200 is	;	
(A)		(B) 1	(C)		(D) 3
Let A	ABCD be a cyclic qua	adrilateral inscribed	in a circle of ra	dius 1 unit. If AB.BC.C	CD.DA \geq 4, then the quadrilateral ABC
(A)	Parallelogram	(B) Square	(C)	Rectangle	(D) Rhombus
In th	ne given figure m∠A	. + m∠B + m∠C + m	∠D + m∠E + m	∠F + m∠G =	c
(A)	360°	(B) 500°			X X_{-}
(C)	520°	(D) 540°			E B
In th	ne given figure $\frac{BD}{CD}$	$=\frac{3}{4}$ and AE = 6BE,	then $\frac{CF}{AF} = _{}$	<u></u>	F
(A) (B)	2/9 4/6				, c
(C)	3/8				1/
(D)	5/9				E
	ncreasing each of th 20%	ne radius of the base (B) 40%		of a cone by 20% its 72.2%	volume will be increased by (D) 72.8%
	o had given the title Bal Gangadhar Tilak		-	Gopal Krishna Gokhl	ما
	Motilal Nehru	`		Rabindra Nath Tago	
	o was the political gu		ndhi?		
	Bal Gangadhar Tilak Badruddin Tyabij	(Dada Bhai Naroji Gopal Krishna Gokhl	le
		ng was the Congres:		•	complete independence as its goal?
	Jawaharlal Nehru	ing mas the congress		Subhas Chadra Bose	
(C)	Sardar Ballabh Bhai	Patel	(D)	Maulana Abul Kalam	n Azad
	o among the following	ng was responsible			
	Ras behari Bose Captain Mohan sing	gh	, ,	Subhas Chandra Bos Major Fuzihara	Se .
	o among the following			he Revolt of 1857?	
(A)	Azimullah Khan	(B) Ahmed Shah	(C)	Kunwar Singh	(D) Sir Syed Ahmed Khan
	wrote 'Das Capital'		*		(5) (6)
(A)	Tolstoy	(B) Lenin	(C)	Karl Marx	(D) Kerensky
	was the last Tsar o				453. 44
(A)	Nicholas I	(B) Nicholas II	(C)	Alexander I	(D) Alexander II
				n-alignment moveme	
(A)	J.Nehru	(B) Nasser	(C)	Woodrow Wilson	(D) Tito
	ch of the following f	features stood for N			
	Anti-semitic Policy Pro-democratic Poli	icy		Pro-socialistic policy Pro-communist Police	
					,
	first convention of Rome	(B) Vatican City		Milan	(D) Venice
. ,			\ -/		· ·

66.	Which of the following is not a feature of Fundamental Rights in India? (A) They are enumerated in Part III of our constitution (B) They are absolute in nature (C) Some of them are positive and some are negative in nature (D) They are Judiciable in the Court of law	
67.	Disputes relating to the election of the President of India can be adjudicated in which if the following courts? (A) Supreme Court of India (B) State High Court (C) Subordinate Courts (D) All of the above Courts	
68.	Who of the following does prorogue the Houses of the Parliament in India? (A) President (B) Vice President (C) Speaker of Loksabha (D) Prime Minister	
69.	Read the following statement and indicate which one is correct? Statement: i. Democracy is a form of government in which the Governing Body is a comparatively large fraction of the en population ii. Democracy really means nothing more or less than the rule of the whole people expressing their sovereign will their votes. Indications: (A) i is true, ii is false (B) i is false, ii is true (C) Both i and ii are true (D) Both i and ii are false	
70.	In which year in India was the Protection of Human Rights Act enacted? (A) 1992 (B) 1993 (C) 1994 (D) 1995	
71.	The voting age in India was lowered from 21 years to 18 years by which Amendment Act of the constitution? (A) 24 th Amendment Act, 1971 (B) 42 nd Amendment Act, 1976 (C) 44 th Amendment Act, 1978 (D) 61 st Amendment Act, 1989	
72.	Since when the Right to Information Act was implemented in India? (A) September 12, 2005 (B) October 12, 2005 (C) November 19, 2005 (D) December 19, 2005	
73.	Which of the following is not a challenge to the National Integration in India? (A) Regionalism (B) Casteism (C) Secularism (D) Communalism	
74.	Which of the following is a demerit of globalisation? (A) Consumerism (B) Employment opportunity (C) Proper use of capital and resources (D) Cultural Osmosis	
75.	In which year was the United Nations Peace Keeping Forces awarded Nobel Peace Prize? (A) 1988 (B) 1990 (C) 1992 (D) 1994	
76.	Density of Population indicates the (A) Capital-Land Ratio (B) Land-Output Ratio (C) Land-Labour Ratio (D) Man-Land Ratio	
77.	In which year New Economic Reforms were started in India? (A) 1981 (B) 1991 (C) 2001 (D) 1995	
78.	Which sector provides Livelihood to majority of Indians? (A) Industry (B) Agriculture (C) Service (D) Commerce	
79.	'Jago Grahak Jago' slogan is meant for (A) Consumers (B) Producers (C) Labourers (D) Distributors	
80.	What type of unemployment is found in Indian agricultural sector? (A) Seasonal unemployment (B) Cyclical unemployment (C) Voluntary unemployment (D) Disguised unemployment	
81.	Which of the following is the oldest mountain range of India? (A) Aravali (B) Nilgiri (C) Vindhya (D) Karakoram	
82.	Of which river the Chambal is a tributary? (A) The Narmada (B) The Yamuna (C) The Godavari (D) The Tapti	

83.	What type of forest is found in the region where the annual rainfall is more than 200 cms?							
	(A) Alpine Forest	(B) Evergreen Forest	(C)	Deciduous Forest	(D)	Monsoon Forest		
84.	Which of the following reservoirs is related to the Bhakra-Nangal Project?							
	(A) Krishnaraj Sagar	(B) Govind Sagar	(C)	Gandhi Sagar	(D)	Nizam Sagar		
85.	Which is the main cash crop of Odisha?							
	(A) Cotton	(B) Maize	(C)	Wheat	(D)	Sugarcane		
86.	Which of the National Highways of India connects Kolkata with Chennai?							
	(A) No.5	(B) No.6	(C)	No.23	(D)	No.42		
87.	From which of the ores Thorium is extracted?							
	(A) Ilmenite	(B) Haematite	(C)	Monazite	(D)	Dolomite		
88.	In the production of whic	h mineral India ranks first in t	he w	vorld?				
	(A) Manganese	(B) Bauxite	(C)	Tin	(D)	Mica		
89.	What type of resource copper is?							
	(A) Exhaustible	(B) Non-exhaustible	(C)	Potential	(D)	National		
90.	In which State of India the Kandala Port is located?							
	(A) Tamil Nadu	(B) Kerala	(C)	Maharashtra	(D)	Gujrat		