

## Class - 10th

Reg. No./ Student ID .....

#### PART - I PHYSICS

1. Two mirrors labelled  $L_1$  for left mirror and  $L_2$  for right mirror in the figure are parallel to each other and 3.0 m apart. A person standing 1.0 m from the right mirror  $(L_2)$  looks into this mirror and sees a series of images. The second nearest image seen in the right mirror is situated at a distance :



- (A) 2.0 m from the person
- (B) 4.0 m from the person(D) 8.0 m from the person
- (C) 6.0 m from the person
- 2. A concave mirror of focal length 20 cm is cut into two parts from the middle and the two parts are moved perpendicularly by a distance 1 mm from the previous principal axis AB. The distance between the images formed by the two parts is :



	(A) 2 mm	(B) 6 mm	(C) 3 mm	(D) 4 mm	
3.	The focal length of a	concave mirror is 50 cm	m. Where an object be	placed so that its image is two times	
	magnified, real and inv	verted			
	(A) 75 cm	(B) 72 cm	(C) 63 cm	(D) 50 cm	
4.	A square of side 3 cm	is placed at a distance of	25 cm from a concave m	irror of focal length 10 cm. The centre	
	of the square is at the a	axis of the mirror and the	plane is normal to the a	xis. The area enclosed by the image of	
	the wire is -				
	(A) $4 \text{ cm}^2$	(B) $6 \text{ cm}^2$	(C) $16 \text{ cm}^2$	(D) $36 \text{ cm}^2$	
5.	A point object is place	ed at a distance of 10 c	m and its real image is:	formed at a distance of 20 cm from a	
	concave mirror. If the object is moved by 0.1 cm towards the mirror, the image will shift by about.				
	(A) 0.4  cm away from	the mirror	(B) 0.4 cm towards the	e mirror	
	(C) 0.8  cm away from	the mirror	(D) 0.8 cm towards th	e mirror	
6.	A cell having an emf	e' and internal resistance	e 'r' is connected across a	a variable external resistance R. As the	
resistance R is increased, the plot of potential difference V across R is given by :-				is given by :-	



7. Aring is made of a wire having a resistance  $R_0 = 12W$ . Find the points A and B as shown in the figure at which a current carrying conductor should be connected so that the resistance R of the sub circuit between these

points is equal to  $\frac{8}{3}$  W.



(A) 
$$\frac{\ell_1}{\ell_2} = \frac{3}{8}$$
 (B)  $\frac{\ell_1}{\ell_2} = \frac{1}{2}$  (C)  $\frac{\ell_1}{\ell_2} = \frac{5}{8}$  (D)  $\frac{\ell_1}{\ell_2} = \frac{1}{3}$ 

8. Five equal resistances each of resistance R are connected as shown in the Figure. A battery of V volts is connected between A and B. The current flowing in AFCEB will be



(A)  $\frac{V}{R}$  (B)  $\frac{V}{2R}$  (C)  $\frac{2V}{R}$  (D)  $\frac{3V}{R}$ 

9. Find potential of J with respect to G -



(D) 30 V

10. Consider four circuits shown in the figure below. In which circuit power dissipated is greater (Neglect the internal resistance of the power supply) :-



12. In the given electrical circuit, the potential difference between point A and B is (assume the battery is ideal and the conducting wires have almost zero resistance):



13. If a charged particle of charge to mass ratio  $\frac{q}{m} = \alpha$  is entring in a magnetic field of strength B at a speed v =  $(2 \alpha d)(B)$ , then which of the following is correct:

		/	ld		
	X	х	х	х	Х
	X	Х	Х	х	Х
$m = \alpha$	X	Х	Х	Х	Х
	X	Х	Х	Х	х
	X	Х	х	Х	х
	X	х	х	х	х
	X	х	х	х	х

(A) angle subtended by charged particle at the centre of circular path is  $2\pi$ .

(B) the charge will move on a circular path and will come out from magnetic field at a distance 4d from the point of insertion.

(C) the time for which particle will be in the magnetic field is  $\frac{2\pi}{\alpha B}$ .

(D) the charged particle will subtend an angle of 90° at the centre of circular path

- 14. A uniform wire when connected directly across a 220 V line produces heat H per second. If the wire is divided into n-parts and all parts are connected in parallel across a 220 V line, the heat produced per second will be
  - (A)  $\frac{H}{n}$  (B)  $\frac{H}{n^2}$  (C)  $n^2$ H (D) nH

15. Two point charges + 16q and -4q located at x = 0 and x = L respectively. The location of a point on the x-axis from x = 0, at which the net electric field due to these two charges is zero is

	(A) L	(B) 2L	(C) $\frac{L}{2}$	(D) $\frac{L}{4}$		
		]	PART - II			
		Cl	HEMISTRY			
16.	When 8.3 g cop	per sulphate reacts with exc	ess of potassium iodide	e then the amount of lodine liberated is		
	(A) 42.3 g	(B) 24.3 g	(C) 4.23 g	(D) 2.43 g		
17.	To 50 mL of 1.5	5 M NaOH solution, 2M HC	l solution is added gra	dually. The pH of the reaction system		
	after the additio	n of 35 mL of HCl solution v	vill be			
	(A) 0.84	(B) 1.23	(C) 12.77	(D) 7.95		
18.	In the following	reaction				
	$3Ba(NO_3)_2 + 2$ 2 mol each of H	$Ba_{3}PO_{4} \longrightarrow Ba_{3}(PO_{4})_{2} + Ba_{3}(NO_{3})_{2}$ and $Na_{3}PO_{4}$ form	$- 6NaNO_{3} Ba_{3}(PO_{4})_{2}$			
		$(D)^{2}$ 1	$(\mathbf{C})$ 1			
	(A) I mol	(B) $\frac{1}{3}$ mol	$(C) = \frac{1}{2} \mod C$	(D) 4 mol		
19.	Which is not the	e disproportionation reaction				
	(A) 3H <sub>3</sub> PO <sub>2</sub> —	$\rightarrow 2H_3PO_3 + PH_3$	(B) HCHO + OH	$- \longrightarrow \text{HCOO}^- + \text{CH}_3\text{OH}$		
	(C) NH <sub>4</sub> NO <sub>2</sub> -	$\longrightarrow NO_2 + 2H_2O$	(D) $Cl_{2} + 6OH^{-}$ -	$\longrightarrow$ 5Cl <sup>-</sup> + ClO <sub>2</sub> <sup>-</sup> + 3H <sub>2</sub> O		
20.	Identify the cor	rect order for the strength of	the acids	5 2		
	$(A) H_2CO_3 > H_2$	$HO_3 > HClO_4$	$(B) HClO_{4} > HCl$	$O_3 > HClO_2$		
	$(C)$ $H_{3}^{2}PO_{4}^{3} > H$	$I_3PO_3 > H_3PO_2$	(D) $HF > HCl > H$	IBr		
21.	Red hot carbon	Red hot carbon will remove oxygen from the ox2de XO and YO but not from ZO. Y will remove oxygen from				
	XO. Use this ev	vidence to deduce the order of	of activity of three meta	als X, Y and Z putting the most active first.		
	(A) XYZ	(B) ZYX	(C) YXZ	(D) ZXY		
22.	Which of the fol	llowing not lewis acid?				
	$(A)AlCl_3.6H_2C$	O (B)AlCl <sub>3</sub>	$(C) SnCl_4$	(D) $\operatorname{FeCl}_3$		
23.	Which of the fol	llowing is an electrophile				
	$(A)AlCl_3$	$(B) C_2 H_5 N H_2$	$(C) H_2O$	(D) $NH_3$		
24.	The mixture of	concentrated HCl and HNC	$P_3$ made in 3 : 1 contain			
	$(A) ClO_2$	(B) NOCl	$(C) NCl_3$	(D) $N_2O_4$		
25.	The aqueous so	olution of which of the salts h	has pH close to 7.			
•	(A) $\operatorname{FeCl}_3$	(B) $CH_3COONa$	(C) $CH_3COONH$	$_{4}$ (D) KCN		
26.	Heating an aque	cous solution of aluminum ch	loride to dryness will gi			
27	(A) AlCl <sub>3</sub>	$(B)Al_2Cl_6$	$(C) Al_2 O_3$	$(D)AI(OH)Cl_2$		
27.	Pb reacts with c	$\frac{111}{100} \text{ produces}$	(C) N O	$(\mathbf{D})$ NO		
20	(A) NU	(B) $NH_4NO_3$	(C) $N_2O_5$	(D) $NO_2$		
28.	White lead is $(A)$ PhCO		(C) 2DLCO DL((	NUL (D) 20450 DLO		
20	(A) PDCO <sub>3</sub>	(B) $POCO_3.POO$	$(C) 2P0CO_3.P0(C)$	$(D) 2P0SO_4.P0O$		
29.	$(A) N_{0} U C O (A)$	Collians				
	(A) NaIICO <sub>3</sub> , $(C)$ NaIICO <sub>3</sub>	$\operatorname{Starch}^{2}$	(D) NaHCO $_3$ , Ca	(B) NaHCO <sub>3</sub> , $Ca(H_2PO_2)_2$		
30	Both oxidation	and reduction takes place in	(D) matrice $0_3$			
	(A) NaCl + HC	$1 \longrightarrow NaCl + HBr$	(B) HBr + AoNO	$\longrightarrow A \sigma Br + HNO$		
	$(C) \amalg \pm D_{\pi}$	× 2HBr	$(D) C_{0}O + U C_{0}$	$\sim C_{2}SO \pm UO$		
	$(C) H_2 + Br_2 \longrightarrow 2HBr$		$(D) CaO + \Pi_2 SO_2$	$_4 \longrightarrow CaSO_4 + \Pi_2O$		

#### PART - III BIOLOGY

<ul> <li>(A) dual is present in (D) than the (D) the (D)</li></ul>	31.	Coenzymes NAD and	d NADP contains vitami	ns:	(D) vitamin B		
<ul> <li>Additional of presenting</li> <li>(A) diodenum (B) jejunum (C) ileum (D) rectum</li> <li>The pneumotaxic centre and rhythm centre are respectively present in (A) pons and medulla oblongata an (B) corpus callosum and pons</li> <li>(C) medulla oblongata and hypothalamus (D) diencephalon and pons</li> <li>Mega Karyocytes, special cells in the bone marrow that produce cell fragments are called:</li> <li>(A) leucocytes (B) erythrocytes (C) thrombocytes (D) fibrinogen</li> <li>When 2 to 3 drops of Benedict's regeant are added to a urine sample and heated gently, it turns yellow. This colour change indicates that</li> <li>(A) Urine contain 2% Glucose (B) Urine contain 0.5% Glucose</li> <li>(C) Urine contain 1.5% Glucose (D) Urine contain 1% Glucose</li> <li>(A) Urine contain 1.5% Glucose (D) Urine contain 1% Glucose</li> <li>(A) Dirus (B) malleus (C) stapes (D) echlea</li> <li>Electric potential of the brain is recorded by</li> <li>(A) CT scan (B) Sphygmomanometer (C) ECG (D) EEG</li> <li>Which area of cerebral cortex is responsible for the interpretation of speech.</li> <li>(A) Broca's area (B) Wernicke's area (C) Premotor area (D) Association area of sensory cortex</li> <li>(A) Calcium (B) Potsuim (C) Sodium (D) Magnesium</li> <li>ATP production is anaerobic respiration remains to be</li> <li>(A) 2 Only (B) 8 Only (C) 28 Only (D) 38 Only</li> <li>What is diagedesis?</li> <li>(A) Akind of anocboid movement</li> <li>(B) Process of follartion of urea in kidney</li> <li>In capsella meiosis takes place during</li> <li>(A) Development of pollen grains (B) Development of egg</li> <li>(C) Germination of speetes</li> <li>(A) Proteos of the oblood capillaries are known as</li> <li>(A) Parietal cells (B) Haemocytes (C) Oxyntic cells (D) Endothelial cells</li> <li>(A) The cells constituting walls of the blood capillaries are known as</li> <li>(A) Parietal cells (B) Haemocytes (C) Oxyntic cells (D) Endothelial cells</li> <li>(A) THP roduction of function of the anilhares of the origon active hormone</li> <li>(C) LCTH, T</li></ul>	27	(A) macin Drunner's Clond is no	(D) blothin	(C) unamme	(D) vitalitin $\mathbf{D}_{12}$		
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<ul> <li>(A) Development of pollen grains</li> <li>(B) Development of egg</li> <li>(C) Germination of zygote</li> <li>(D) Development of embryo sac</li> </ul> 44. The cells constituting walls of the blood capillaries are known as <ul> <li>(A) Parietal cells</li> <li>(B) Haemocytes</li> <li>(C) Oxyntic cells</li> <li>(D) Endothelial cells</li> </ul> 45. Anterior lobe of pituitary secretes <ul> <li>(A) TSH, ADH and prolactin</li> <li>(B) LH, FSH and a growth hormone</li> <li>(C) LCTH, TSH and oxytocins</li> <li>(D) STH, GH and antidiuretic hormone</li> </ul> PART - IV MATHEMATICS	43.	In capsella melosis takes place during					
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<ul> <li>44. The cells constituting walls of the blood capillaries are known as <ul> <li>(A) Parietal cells</li> <li>(B) Haemocytes</li> <li>(C) Oxyntic cells</li> <li>(D) Endothelial cells</li> </ul> </li> <li>45. Anterior lobe of pituitary secretes <ul> <li>(A) TSH, ADH and prolactin</li> <li>(B) LH, FSH and a growth hormone</li> <li>(C) LCTH, TSH and oxytocins</li> <li>(D) STH, GH and antidiuretic hormone</li> </ul> </li> <li>PART - IV <ul> <li>MATHEMATICS</li> </ul> </li> </ul>		(C) Germination of z	ygote	(D) Development of embryo sac			
<ul> <li>(A) Parietal cells</li> <li>(B) Haemocytes</li> <li>(C) Oxyntic cells</li> <li>(D) Endothelial cells</li> <li>(A) TSH, ADH and prolactin</li> <li>(B) LH, FSH and a growth hormone</li> <li>(C) LCTH, TSH and oxytocins</li> <li>(D) STH, GH and antidiuretic hormone</li> </ul> PART - IV MATHEMATICS	44.	The cells constituting	g walls of the blood capil	laries are known as			
45. Anterior lobe of pituitary secretes (A) TSH, ADH and prolactin (C) LCTH, TSH and oxytocins (D) STH, GH and antidiuretic hormone PART - IV MATHEMATICS		(A) Parietal cells	(B) Haemocytes	(C) Oxyntic cells	(D) Endothelial cells		
(A) TSH, ADH and prolactin (C) LCTH, TSH and oxytocins (D) STH, GH and antidiuretic hormone PART - IV MATHEMATICS	45.	Anterior lobe of pitui	tary secretes		Christer II		
(C) LCTH, TSH and oxytocins (D) STH, GH and antidiuretic hormone PART - IV MATHEMATICS		(A) TSH, ADH and prolactin		(B) LH, FSH and a growth hormone			
PART - IV MATHEMATICS		(C) LCTH, TSH and	oxytocins	(D) STH, GH and ant	tidiuretic hormone		
MATHEMATICS			P	ART - IV			
			МАТ	HEMATICS			

46.	$x^4 - 4x^3 + ax^2 - bx + 1 =$	$-4x^3 + ax^2 - bx + 1 = 0$ has positive real roots. What is the maximum possible value of $a + b$ ?			
	(a) 20	(b) 12	(c) 8	(d) 10	
47.	If a three digit number	abc' has 3 factors, how	many factors does the 6-	-digit number of form 'abcabc' have?	
	(a) 16 factors	(b) 24 factors	(c) 16 or 24 facotrs	(d) 20 factors	
48.	A polynomial $f(x)$ leaves remainder when $f(x)$ is	ves remainder 75 and 15 divided by $(x - 1)(x + 2)$	5 respectively when div	vided by $(x-1)$ and $(x+2)$ . Then the	
	$\frac{1}{(\Lambda)} \frac{5}{4\pi} + \frac{11}{1}$	(D) $5(4x - 1)(x + 2)$	(C) 5(2x + 11)	(D) $5(2y = 11)$	
	(A) J(4X + 11)	(D) J(4x - 11)	(C) J(JX + II)	(D) J(JX - 11)	

49. A railway half ticket costs half the full fare and reservation charge is same on half ticket as on full ticket. One reserved first class ticket from Chennai to Trivandrum costs Rs. 216 and one full and one half reserved first class tickets cost Rs. 327. What is the basic first class full fare and what is the reservation charge? (b) Rs. 210 & Rs. 12 (c) Rs. 216 & Rs. 12 (d) Rs. 210 & Rs. 6 (a) Rs. 105 & Rs. 6  $\sqrt{10 + \sqrt{24} + \sqrt{60} + \sqrt{40}}$  is equal to 50. (a)  $\sqrt{2} + \sqrt{3} + \sqrt{5}$  (b)  $\sqrt{5} + \sqrt{3} + \sqrt{7}$  (c)  $1 + \sqrt{2} + \sqrt{7}$  (d)  $\sqrt{5} + \sqrt{3} - \sqrt{7}$ The sum of 2n terms of A.P. {1, 5, 9, 13, ......} is greater than sum of n terms of A.P. {56, 58, 60, ....}. What 51. is the smallest value n can take? (D) Cannot determined (A) 8 (B) 10 (C) 9 An A.P. has a property that the sum of first ten terms is half the sum of next ten terms. If the second term is 13, 52. then the common difference is (a) 3 (b) 2 (c) 5 (d) 4 Consider the points A(-5, -1), B(-1, 0), C(1, 2) and D(1, 3). Let P be a point such that  $d = PA^2 + PB^2 + PC^2$ 53. + PD<sup>2</sup>. The least possible value of d is (b) 30 (c) 32(d) 34 (a) 28 In the fig AD = BD, BE =  $\frac{1}{2}$  EC and CF =  $\frac{1}{3}$  AF. If the area of  $\triangle ABC$  = 120cm<sup>2</sup>, then area of  $\triangle DEF$  is: 54. В (a) 21(b) 35 (c) 40(d) 45 If the polynomial  $f(x) = ax^3 + bx - c$  is divisible by the polynomial  $g(x) = x^2 + bx + c$ , then ab will equal to: 55. (b)  $\frac{1}{2}$ (d)  $\frac{-1}{c}$ (c) - 1(a) 1 A triangle ABC is divided into four regions by three lines parallel to BC. The lines divide AB into four equal 56. segments. If the second largest region has area 225, what is the area of ABC? (A) 600 (B) 700 (C) 720 (D) Cannot determined ABC is a triangle and D and E are interior points of the sides AB and BC respectively such that  $\frac{AD}{DB} = \frac{1}{3}$  and 57.  $\frac{CF}{FD}$ .  $\frac{CE}{EB} = 3$ . If AE and CD intersect at F, find (c) 1 : 2(d) Cannot determined (a) 12(b) 13 If  $100^{25} - 25$  is written in decimal notation, find the sum of its digits. 58. (b) 444 (c) 333 (d) 445 (a) 222The sum of real values of y satisfying the equations  $x^2 + x^2y^2 + x^2y^4 = 525$  and  $x + xy + xy^2 = 35$  is: (a) 15 (b) 10 (c) 5/2 59. (b) 10 (d) 3/2(c) 5/2(a) 15 If the real number x, y, z are such that  $x^2 + 4y^2 + 16z^2 = 48$  and xy + 4yz + 2zx = 24, What is the value of 60.  $x^2 + y^2 + z^2 = ?$ (a) 24 (b) 22 (c) 21 (d) 20

#### PART - V I.Q. (INTELLIGENCE QUOTIENT)

# Note:- Choose any one of I.Q. (INTELLIGENCE QUOTIENT) or G.A. (GENERAL AWARENESS) in Part - V.

	Direction (61	-64) In a certain code la	anguage if				
	"JOIN YADUVANSHI NARNAUL BRANCH" is coded as $B # 9, I # 5, L # 3, F @ 6$ "AND BUILD YOUR CAREER" is coded as F @ 4, M @ 2, B # 3, I # 5						
	<b>"BEST RESU</b>	JLT NTSE" is coded as	s G # 3, F # 5, G # 3				
	<b>"FUTURE W</b>	<b>ITH CLAT</b> " is coded a	s G # 3, F # 5, D # 3				
61.	Then what is c	ode for "CHAMPION"	?				
	(A) K # 7	(B) T # 7	(C) K @ 7	(D) T @ 7			
62.	Then what is c	ode for "YADUVANSH	["?				
	(A) B # 9	(B) F @ 6	(C) L # 3	(D) I # 5			
63.	Then what is c	ode for "NARNAUL"?					
	(A) F @ 6	(B) B # 9	(C) L # 3	(D) I # 5			
64.	Then what is c	ode for "ALWAYS"?					
	(A) B # 5	(B) D # 5	(C) B @ 5	(D) D @ 5			
	Directions (65	5-67): Study the followin	g information carefully	y and answer the questions given be	elow :		
	A certain numb	per of people are sitting in a	straight, horizontal line:	facing north. The 17 year old sits fourth	ı from		
	the left end of t	he line. Only two people s	it between the 17 year old	d and the 40 year old. There are eight p	eople		
	between the 40	) year old and the 19 year of	old. The 5 year old sits for	urth to the left of the 19 year old. The 9	9 year		
	old sits second	l to the left of the 5 year of	ld. No one sits to the righ	nt of the 19 year old.			
65.	How many peo	ople are sitting in the line?					
	(A) 9	(B) 16	(C) Cannot be de	termined (D) 10			
66.	Which of the fo	ollowing correctly represe	nts the correct position o	f the 9 year old in the line?			
	(A) 8th from th	e right end	(B) 8th from the	left end			
	(C) 7th from th	(C) 7th from the left end (D) 3rd to the right of the 40 year old					
67.	7. If Zara sits exactly between the 5 year old and the 9 year old, how many people sit between Zara and th year old?						
	(A) Four	(B) Five	(C) Six	(D) Three			
Directions (68-71): Study the following information carefully and answer the questions g							
	A B C D E F G and H are eight friends and sitting around a circular table but not necessarily in s						
	Some of them a	are facing inside and some	of them are facing outsid	le. A sits third to right of H. Only two p	eople		
	sit between H	and B. C sits second to let	t of B. Only three people	e sit between B and E. D is second to l	left of		
	F. Immediate	neighbours of H face sar	ne direction as H. F site	s third to left of A. who faces centre	. The		
	immediate neighbours of A face opposite to the direction of A.						
68.	Who is sitting	third to the right of F?	1/3/				
	(A) C	(B) B	(C)A	(D) E			
69.	Who are facing	of the centre?	(0)11	(2) 2			
0,7,1	(A) AB	(B) AGH	(C) AD	(D) ADC			
70	Who sits oppo	site to H?	(0)12	(2).20			
,	(A) A	(B)D	$(\mathbf{C})\mathbf{F}$	$(\mathbf{D})\mathbf{F}$			
71	Statements.	I Some Jananese are Ch	inese				
/1.	I All Chinese are Indians						
		III No Indian is Mexica	ns				
		IV Some Maxicans are I	Malaysians				
	Conclusions	I All Jananese heing mer	vicans is a nossibility				
		II No Chinese is movies	ne				
			uis.				

III. Some Japanese are Indians.  
(A) Ohly II follow (B) Ohly II follow (C) Both I and II follow (D) Both I and III follow  
T. Some cats are lions.  
II. Some cats are lions.  
II. Some cats are lions.  
II. No cat is tiger.  
Conclusions: I. Some tiger can be bats.  
II. No cat is tiger.  
(A) Ohly I follow (B) Ohly I follow (C) Neither I nor II follow (D) Both I and II follow  
(A) Ohly I follow (B) Ohly I follow (C) Neither I nor II follow (D) Both I and II follow  
(A) Ohly I follow (B) Ohly I follow (C) Either I nor II follow (D) Neither I nor II follow  
(A) Ohly I follow (B) Ohly II follow (C) Either I nor II follow (D) Neither I nor II follow  
(A) Ohly I follow (B) Ohly II follow (C) Either I nor II follow (D) Neither I nor II follow  
(A) Ohly I follow (B) Ohly II follow (C) Either I nor II follow (D) Neither I nor II follow  
(A) Ohly I follow (B) Ohly II follow (C) Either I nor II follow (D) Neither I nor II follow  
(A) Ohly I follow (B) Ohly II follow (C) S unimate to 8 of clock  
(C) 
$$7: 5\frac{5}{11}$$
 of clock (D) None of these  
75. If the 2 fold August of a year is Friday, the number of Mondays in that month of the year is  
(A) 3 (B) 4 (C) 5 (D) 6  
76. How many triangles are there in the figure?  
Which answer figure will be completed to the question figure?  
Question figure:  
(A) 15 (B) 19 (C) 22 (D) 24  
77. Which answer figure will be completed to the question figure?  
Question figure:  
(B) Directions (C) Study the following information carefully to answer the questions.  
(F) PAQ means P is the bother of Q  
(B) PAQ means P is the bother of Q  
(B) PAQ means P is the bother of Q  
(B) PAQ means P is the bother of Q  
(B) PAQ means P is the bother of Q  
(B) PAQ means P is the factor O  
(C) Brother or sister  
79. Three forms of a dice are shown below. Which letter will on the surface opposite to the letter 'A?  
(A) H (B) P (C) B (C) B (D) M  
80. From the given four positions of a single dice, find the letter at the face opposite to the face having letter. D



### G.A. (GENERAL AWARENESS)

61.	The Reserve Bank of	India will soon issue nev	wRs 100 denomination	bank notes which has motif of which	
monument on the reverse of the note?					
	(A) Rani ki vav	(B) Hampi with chariot	t (C) Ellora Caves	(D) Raj Ghat	
62.	Which of the followin	g states is set to become t	he first Indian state to ro	ll out Universal Basic Income (UBI)?	
	(A) Sikkim	(B)Assam	(C) Manipur	(D) Arunachal Pradesh	
63	Novak Djokovic won	Men's Singles title in Au	stralian Open-2019. Wh	nom he defeated in Final?	
	(A) Rafael Nadal	(B) Roger Federer	(C) Andy Murray	(D) Alexander Zverev	
64.	Which product of Kar	ndhamal in Odisha has re	cently received GI Tag?		
	(A) Turmeric	(B) Ginger	(C) Red Pepper	(D) Garlic	
65.	ng robot without GPS?				
	(A) Germany	(B) France	(C) England	(D) Japan	
66.	Who is the first Indian	Athlete to Quality for Ol	ympics 2020:		
	(A) Ravikant	(B) Mary Kom	(C) Kulvinder Singh	(D) KT Irfan	
67.	"Lessons Life Taught]	Me Unknowingly" book	was written by		
	(A) Amitabh Bachchar	n (B) Balwant Singh	(C) Chetan Bhagat	(D) Anupam Kher	
68.	Chagos Islands is the b	oone of contention betwe	en which of the followin	g countries?	
	(A) South Korea & N	orth Korea	(B) United States & Indonesia		
	(C) Japan & China		(D) UK & Mauritius		
69.	What is the article of fi	nance commission in the	constitution of India?		
	(A)Article 280	(B)Article 275	(C)Article 285	(D) Article 290	
70.	3rd Khelo India Youth	Games will be at			
	(A) Pune	(B) Assam	(C) Delhi	(D) Kanpur	
71. Which city has been adjudged cleanest city in Swachh Survekshan 2019?				.9?	
	(A) Indore	(B) Mysore	(C) Raipur	(D) Ahmedabad	
72.	India's first elephant h	ospital is located at			
	(A) Mathura	(B) Noida	(C) Gaziabad	(D) None of the above	
73.	What is "THAAD", th	at was in the news recen	tly?		
(A) Russia's anti missile defence system(B) largest aircraft(C) UK's largest aircraft carrier ship(D) US anti missile			(B) largest aircraft carr	arrier of china	
			(D) US anti missile defence system		
74.	Ravish Kumar of ND	ΓV news channel was ch	losen for 2019 A	ward.	
	(A) Nobel	(B) Bharat Ratna	(C) Padam Sri	(D) Magsaysay	
75.	Which former ISRO se	cientist is the recipient of	f the 2019 Padma Bhush	an?	
	(A) K. Radhakrishnan	(B) Tapan Misra	(C) Nambi Narayanan	(D) A S Kiran Kumar	
76.	"Bhungroo Technolog	gy" sometimes seen in the	e news is related to:		
	(A) Stubble Burning	(B) Air Pollution Contro	l (C) Cryogenic Engine	(D) Water Harvesting	
77.	Who has been appointed as the first transgender election Ambassador in India?				
	(A) Laxmi Narayan Tr	ipathi	(B) K Prithika Yashini		
	(C) Gauri Sawant		(D) Madhu Bai Kinnar		
78.	Which IIT has tied up	with Wipro for advance	d research in 5G and AI	?	
	(A) IIT Kanpur	(B) IIT Madras	(C) IIT Kharagpur	(D) IIT Bombay	
79.	Who has been conferm	ed with 2019 Pravasi Bł	hartiya Samman Award (	(PBSA)?	
	(A) Rajendra Joshi	(B) Ramesh Mehta	(C) Prathap C Reddy	(D) Kamal Karanth	
80.	Which country's team	has won the 2019 Sultar	Azlan Shah Hockey tou	urnament?	
	(A) Poland	(B) India	(C) South Korea	(D) Japan	