

Reg. I	No.					Name :	
Cla	ss: VIII						
	30 /11/2014			Time	allowed	I: 3 hours	Maximum Marks : 240
	Please rea	ad the	instr	uctio	ns in (Duestion Bookl	et before answering the
	question						
				IN	ISTRI	UCTIONS	
(i)	Thequestion	nonorh	ng '20' m				opy of the question pener you have
(i)	received cont		-	rinted p	ages. Pie	ase ensure that the co	ppy of the question paper you have
(ii)	Before startin	ig the pa	per, fill ı	up the re	equired d	etails in the blank spa	ce provided in the answer sheet.
(iii)	Write your na	ame and	Seven	digit Re	g. No. ir	the space provided a	t the top of this booklet.
(iv)	The question them are com		onsists c	of '120'	objectiv	e type questions. Each	h question carry 2 marks and all of
(v)	Each question	n contain	s four a	lternativ	es out of	which only ONE is c	orrect.
(vi)	There is NEC	GATIVE	2 markir	ng. For e	each wro	ng answer 0.5 mark w	vill be deducted.
(vii)	Indicate the c	correct a	nswer f	for each	question	n by filling appropriat	te bubble in your answer sheet.
(viii)	Use only HB	pencil fo	or darkei	ning the	bubble.		
(ix)	For rough wo rough work a						No extra sheet will be provided for
(x)	Use of blank gadgets in an						le, mobile or any other electronic
(xi)		2	-		2	e the same, give it to you m, after the exam.	ur Invigilator before commencement
(xii)					•	nputer hence the answ lark HB pencil only.	er of the questions must be marked
	For example	e if only'	C' choic	e is con	rect then	,	
	the correct me	ethod for	fillingt	he bubb	le is		
		1	2	3	4		
		\bigcirc	\bigcirc		\bigcirc		
	the wrong me	thod for	-	ne bubbl			
	(a)	1	2	3	4		
		\bigcirc	\bigcirc	\bigotimes	\bigcirc	Tick Mark	
	(b)	1	2	3	4		
		\bigcirc	\bigcirc	\times	\bigcirc	Cross Mark	
	(c)	1	2	3	4		
		\bigcirc	\bigcirc		\bigcirc	Half filled or Semi D	Dark

The answer of the questions in wrong or any other manner will be treated as wrong.

Q.1	The strength of the grav objects depends on th (1) masses and distant (2) weights and accele (3) masses and gravity (4) none of these	ce between them eration	Q.6	In summer monsoon w (1) Land to the ocean (2) Ocean to the land (3) Higher pressure to (4) Lower pressure to	lower pressure
Q.2	Real and inverted ima (1) concave mirror (2) convex mirror (3) concave mirror and		Q.7	When matter gets warm in that matter (1) stand still (3) more slower	(2) more faster (4) can't stay
	(4) plane mirror		Q.8	Higher the temperature is the kinetic energy of t	of the body he molecules of that body?
Q.3	A wind vane is used to (1) wind speed (3) wind temperature	(2) wind pressure		(1) higher(3) same	(2) lower(4) none of these
			Q.9	Sea breeze is caused d	lue to
Q.4	.4 A bus moves at a constant speed of 45 km/h for 10 minutes. What will be the distance covered by bus			(1) Conduction(3) radiation	(2) convection(4) all of these
	(1) 4.5 m/s (3) 7.5 km	(2) 7.2 km (4) 75 km	Q.10	36 km/hr can also be e (1) 10 m/s	(2) 3.6 m/s
Q.5	In electric bulb the ter above (1) 1400°C (3) 2100°C	nperature of filament rises (2) 1500°C (4) 1000°C	Q.11	of time can be (1) To and fro motion	 (4) 36 m/s ts self after regular intervals (2) circular motion
				(3) rectilinear motion	(4) periodic motion

Q.12	• •	long a straight line, keeps	Q.18	The motion of a swing	
	changing its speed then			(1) straight line	(2) perodic
		to be a uniform motion		(3) circular	(4) vibratory
	(2) Non uniform motio		0.40		
	(3) object is said to be	•	Q.19	-	to complete 20 oscillations.
	(4) The motion is said	to be a fast motion		What is the time period	-
				(1) 1.25 s	(2) 2.5 s
Q.13	The magnetic effect of by	the current was discovered		(3) 1.50 s	(4) 12.5 s
	(1) Newton	(2) Joule	Q.20	Fuse wire melts at	t a temperature about
	(3) Oersted	(4) Ohm	Q.20	°C.	a competature about
	(5) 0015100			$(1) 2000^{\circ}C$	(2) 200°C
Q.14	Air exerts pressure in			(1) 2000°C (3) 1500°C	(4) 220°C
Q.14	(1) all direction	(2) upward only		(5) 1500 C	(4) 220 C
	(3) downward	(4) sideways only			
	(J) downward	(4) side ways only	Q.21	Synthetic fibre which w	vorks like wool
Q.15	An image that can't be	a takan an tha saraan		(1)Acrylic	(2) Bakelite
Q.15	-			(3) Rayon	(4) Melamine
	(1) Virtual	(2) real			
	(3) both	(4) none of these	Q.22	The oxides formed by	metals are
0.16	A (1 C			(1) Always basic	(2) Always acidic
Q.16	Japan	clone in South China and		(3) Always neutral	(4) Both basic & acidic
	(1) Typhoon	(2) Hurricane	0.22	Vincor contain	
	(3) Willy-willies	(4) Tornado	Q.23	Vinegar contain	(2) Tartaria agid
				(1) Formic acid	(2) Tartaric acid
Q.17	Element of a heater is	made up of		(3) Oxalic acid	(4) Acetic acid
	(1) Tungsten	(2) nichrome			
	(3) constantan	(4) Manganin			
	()	() - 0			

Q.24	Compound used in put (1) Nausudar (3) Blue vitrol	rification of water (2) salt (4) Alum	Q.30	Chemical used for mal (1) Ammonium chlorid (2) Sodium bicarbonat (3) Sodium chloride	le
Q.25	Magnesium ribbon b forming ash.	urns with light		(4) Calcium hydroxide	
	(1) White(3) Blue	(2) Red (4) Green	Q.31	Milk of magnesia conta (1) Sodium (3) Magnesium	ains (2) Potassium (4) Ammonium
Q.26	Chemical name of bak (1) sodium bicarbonat (2) Potassium paramag (3) Calcium hydroxide (4) Sodium hydroxide	e gnet	Q.32	-	n copper sulphate solution, er sulphate solution changes (2) Orange (4) Yellow
Q.27	During which of the substances formed? (1) Melting (3) Evaporation	following changes new(2) Sublimation(4) Rusting	Q.33		e is passed through lime to formation of
Q.28	Magnetisation of bar of (1) Physical change (3) Magnetism	of steel is a (2) Chemical change (4) All of these		(3) Ozone(4) Baking soda	
Q.29	The fleece of sheep is (1) Dust (3) Burrs	combed to remove the (2) Dirt (4) Grease	Q.34	Bases turn the yellow t (1) green (3) black	turmeric paper to (2) red (4) orange

Q.35	Sugar cane juice have (1) maleic acid (3) glycolic acid	(2) acetic acid(4) tartaric acid	Q.41	Find the value of $\frac{1}{1+1}$	$\frac{2}{\frac{1}{1}} \times \frac{3}{\frac{5}{2} \text{ of } \frac{3}{2} \div 1\frac{1}{4}}$
Q.36	Symbol of magnesium (1) Mg	(2) Sn		(1) 0	2 (2) 1
	(3) Mn	(4) none of these		(3) 2	(4) None of these
Q.37	Absolute zero tempera		0.42	What should be subtrac	$\frac{3}{5}$
	(1) –273°C (3) 100°C	$(2)-273^{\circ}$ Kelvin $(4) 273^{\circ}$ F	Q.42		1 0
Q.38	•	oved from waste water by		$(1)\frac{19}{12}$	$(2) - \frac{19}{12}$
		(2) bar screen(4) sedimentation		$(3) \frac{1}{12}$	$(4) - \frac{1}{12}$
Q.39	Chemical formula of N				
	(1) NH₃COOH(3) NH₄OH	(2) HNO ₃ (4) CH ₄	Q.43	Express $-\frac{7}{9}$ as a	Rational Number with
Q.40	Sorter's disease is cau	sed by		denominator 18.	
X ,	(1) Rhizobium bacteria	•		$(1) \frac{14}{18}$	$(2) - \frac{14}{18}$
	(2) Bacterium Anthrax(3) Bacterium S. Pneu	umoniae			
	(4) E.Faccium			$(3) \frac{18}{14}$	(4) None of these

Q.44	$If\left(\frac{x}{y}\right)^{n-1} = \left(\frac{y}{x}\right)^{n-5} t$	hen n is equal to	Q.48	is 50 and the total nu	ber of rabbits and Peacock mber of their legs is 140. rabbits and number of
	(1) 3	(2) $\frac{1}{2}$		(1) 20, 40 (3) 30, 40	(2) 20, 30 (4) None of these
	(3) $\frac{7}{2}$	(4) None of these	Q.49	-	rts such that four times of l to 6 times of the smaller ts.
Q.45	$\frac{\left(x^{a+b}\right)^{a-b} \times \left(x^{b+c}\right)^{b-c}}{\left(x^{a+c}\right)^{a-c}}$			(1) 5, 20 (3) 16, 9	(2) 15, 10 (4) None of these
	$(1) \frac{1}{2}$	$(2) x^a$	Q.50	If $\frac{x+3}{2} + 3x = 5(x-3)$	$(3) + \frac{x+23}{5}$, then what is
	(3) 1	$(4) x^{abc}$		the value of $x =$	
Q.46	Subtract the sum of $(a+b+c+d)$ and (2a)	a + 2b + 3c + 4d) from the		(1) 7 (3) 10	(2) 8(4) None of these
	product of $(a + 2b)$ ar (1) $a + 5b + 5d$ (2) $a + 5b - 3c - 5d$	-	Q.51	The solution of $\frac{x+a}{x-2a}$	$\frac{1}{x-4a} = \frac{x+3a}{x-4a}$ is
	(3) $5b + 5d - 3c$ (4) None of these			(1) x = a	$(2) x = -\frac{a}{2}$
Q.47	$(x^2 + y^2) (x^2 - y^2)$ is e (1) $(x^4 + y^4)$ (3) $x^6 - y^6$	equal to (2) $x^4 - y^4$ (4) None of these		$(3) x = \frac{a}{2}$	(4) None of these

- Q.52 In an examination 96% of the candidates passed and 50 failed, How many candidates appeared.
 - (1) 1200 (2) 1260
 - (3) 1250 (4) None of these
- Q.53 If a is 6 times b. What % is b less than a ? (1) 80% (2) 72%

(3)
$$83\frac{1}{3}\%$$
 (4) None of these

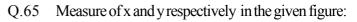
- Q.54 A sold a watch to B at 20% gain and B sold it to C at a loss of 10%. If C bought the watch for Rs. 216, at what price did A purchase it?
 (1) 400
 (2) 216
 (3) 200
 (4) None of these
- Q.55 At what rate % per annum will a sum triple itself in 16 years?
 (1) 10%
 (2) 12.5 %
 (3)12%
 (4) None of these
- Q.56 The CP of 21 articles is equal to S.P. of 18 articles. What is the gain % or less%.
 - (1) $16\frac{1}{3}\%$ (2) $16\frac{2}{3}\%$ (3) $15\frac{3}{4}\%$ (4) None of these

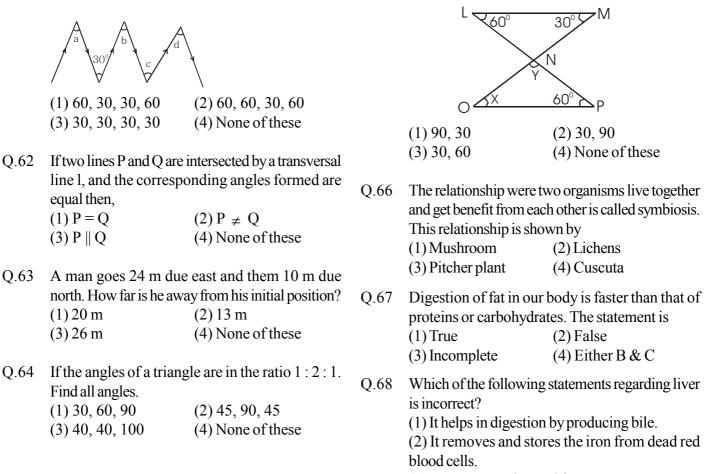
Q.57 The salary of an officer has been increased by 50%. By what % the new salary must be reduced to restore the original salary?

(1) 40% (2)
$$30\frac{1}{3}\%$$

(3) $33\frac{1}{3}\%$ (4) None of these

- Q.58 The speeds of three cars are in the ratio 5 : 4 : 6. The ratio between the time taken by them to travel the same distance is:-
 - $\begin{array}{cccc} (1) 5:4:6 & (2) 6:4:5 \\ (3) 10:12:15 & (4) 12:15:10 \end{array}$
- Q.59 If 15% of x = 20% of y, then x : y is (1) 3 : 4 (2) 4 : 3 (3) 17 : 16 (4) None of these
- Q.60 If 36 men can do a piece of work is 25 days, in how many days will 15 man do it?
 (1) 40 days
 (2) 50 days
 (3) 60 days
 (4) None of these





(3) It stores proteins and fats

(4) It purifies blood.

- Q.69 A unicellular organism having contractile vacuoles, oral groove, food vacuole and in which ingestion of food takes place with the help of cilia is
 - (1) Amoeba
 - (2) Yeast
 - (3) Chlamydomonas
 - (4) Paramecium
- Q.70 Which of the following statements are true about Water Hyacinth and Cactus.
 (i) Both of the plants have swollen leaf stalks.
 (ii) Both are food producers.
 (iii) Both are flowering plants.
 - (iv) Both have waxy leaves.
 - $(1) i \& ii \qquad (2) ii \& iii$
 - (3) iii & iv (4) i & iv
- Q.71 The fennec fox is well suited to live in a hot desert environment because it has
 - (1) Large ears (2) Flexible feet
 - (3) A sandy colour (4) Fur
- Q.72 Cockroach has a flattened body shape. This characteristic helps the organism to
 - (1) Survive for a long period without food
 - (2) Crawl more quickly
 - (3) Camouflage itself
 - (4) Crawl between crevices and spaces easily

- Q.73 Climate of a place is not affected by
 (1) It's latitude
 (2) Height above the sea level
 (3) Winds and humidity
 (4) Animals living there
- Q.74 The leaves of the lily has a layer of wax on them to prevent water from collecting on them and cause it to drown. How they do they get the gases they need for breathing?
 (1) They get the gases they need from the water they float on
 (2) They breathe through the flowers they produce
 (3) They do not need any gas to live
 (4) They can move their leaves above the water regularity for gaseous exchange.
- Q.75 When a person breathes in, what happens to the diaphragm and to the rib cage?

	Diaphragm	Rib cage
(1)	Becomes flatter	Downwards and inwards
(2)	Becomes flatter	Outwards and upwards
(3)	Becomes more curved	Downwards and inwards
(4)	Becomes more curved	Outwards and upwards

- Q.76 Which of the following is the correct order for travel of air through different organs of respiratory system?
 - (1) Nostrils \rightarrow Larynx \rightarrow Trachea \rightarrow Alveoli
 - \rightarrow Bronchi \rightarrow Bronchioles
 - (2) Nostrils \rightarrow Trachea \rightarrow Larynx \rightarrow Alveoli
 - \rightarrow Bronchi \rightarrow Bronchioles
 - $(3) \text{Nostrils} \rightarrow \text{Larynx} \rightarrow \text{Trachea} \rightarrow \text{Bronchi}$
 - \rightarrow Bronchioles \rightarrow Alveoli
 - (4) Nostrils \rightarrow Trachea \rightarrow Larynx \rightarrow Bronchi
 - \rightarrow Bronchioles \rightarrow Alveoli
- Q.77 Which of the following statements is incorrect?
 - (1) In earthworm exchange of gases occurs through the moist skin

(2) The breakdown of glucose in plant cells is similar to that in other living beings.

(3) Respiratory organs such as tracheae and spiracles are found in insects as well as lower organisms.

(4) Animals such as elephants, frogs, lizards, snakes have lungs in their chest cavities like that of human beings.

- - (4) Artery, oxygen, vein, carbon dioxide
- Q.79 Each structure is a bean-shaped dark red and consists of thousands of nephrons. These structures are situated in the abdominal cavity, one on each side of the vertebral column, just above the waist. Which structures are we referring to?
 (1) Ovaries
 (2) Adrenal glands
 (3) Lymph nodes
 (4) Kidneys
- Q.80 Which of the following statements on transport of nutrients and gases are true?
 (1) Unicellular organisms transport materials by diffusion and streaming movements of the cytoplasm
 (2) Plants transplant water and minerals through xylem vessels. Prepared food is transported by phloem vessels from the leaves to the different parts of the plant
 (3) In man, the transport of nutrients, gases and necessary chemicals is done by blood which is pumped by the heart and circulated in the blood vessels.
 - (4) All of the above

Direction (Q.81 to Q.84) : Find the missing term in the series.

Q.81	48, 24, 96, 48, 192, 5	?		
	(1) 76	(2) 90	(3) 96	(4) 98
Q.82	4, 6, 9, $13\frac{1}{2}$, ?			
	(1) $17\frac{1}{2}$	(2) 19	$(3) 20 \frac{1}{4}$	$(4) 22 \frac{3}{4}$
Q.83	A, B, N, C, D, O, E,	F, P, ?, ?, ?		
	(1) G, H, I		(3) G, H, Q	(4) J, K. L
Q.84	GH, JL, NQ, SW, YI	D, ?		
	(1) EJ	(2) FJ	(3) EL	(4) FL
Q.85		g number series, one terr 30, 42, 54, 72	n is wrong. Choose the w	vrong term out of the given alternatives.
	(1) 20	(2) 30	(3) 42	(4) 54
Q.86	In given question syn alternative. G A GT M	_	sequence as one of the	four alternatives. Find out the correct

 $\begin{array}{c} _G_A_GT_M_T\\ (1) \text{ AMTMAG} & (2) \text{ MTAGAM} & (3) \text{ GAMATG} & (4) \text{ TMTAGM} \end{array}$

Q.87 The following question are based on simple numberical problems. Find one number from the given choice which can fill the two blank places.

$\frac{\sqrt{625}}{?}$	$\frac{1}{5} = \frac{?}{16}$			
	(1) 0.025	(2) 2.05	(3) 0.0025	(4) 20.0
Q.88	If '×' means '-', '-' me	eans '×', '+' means '+' ar	nd '÷' means '+' then 13	$-12 \div 400 + 20 \times 100 = ?$
	(1) $\frac{1}{1760}$	(2) 76	(3) 176	(4) 186
Q.89	If BRANCH is coded	d DTCPEJ, then FIELI) is coded as	
X .03	(1) GJFME	(2) HKGNF	(3) JFMEG	(4) FNGKH
	tions (Q.90 & 91): In a s Sea looks blue.	a certain code langua	ge 481 means Sky is bl	ue. 246 means Sea is deep and 698
Q.90	What number is the co	ode for 'is' ?		
	(1) 8	(2) 1	(3) 4	(4) 2
Q.91	What number is the co	ode for blue ?		
Q.91	What number is the co (1) 8	ode for blue ? (2) 6	(3) 1	(4) 9

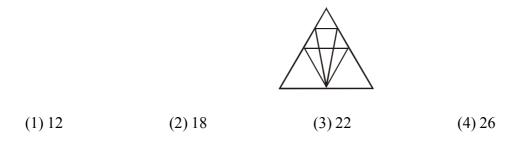
(1) South-west (2) North-east (3) East (4) North

- Q.93 A man said to a woman, Your mother's husband's sister is my aunt. How is the woman related to the man?
 (1) Grand daughter (2) Daughter (3) Sister (4) Aunt
- Q.94 Arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence.

1.	Wrinkle	2.	Wriggle	3.	Writhe	4.	Wretch
5.	Wrath						
(1) 4 5	123	(2) 5 4	213	(3) 4 2	513	(4) 5 2	134

Q.95 Rahim started from point X and walked straight five kms West, then turned left and walked straight two kms and again turned left and walked straight seven kms. In which direction is he from point X?
(1) North-east (2) South-west (3) South-east (4) North-west

Q.96 Count the number of triangles in the following figure :

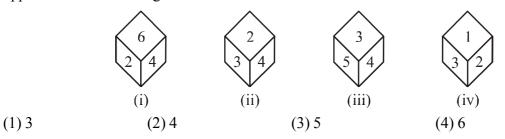


 $Q.97 \quad Count the number of cubes in each of the following figure:$

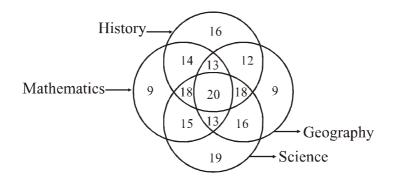
	(1) 68	(2) 69	(3) 70	(4) 71
Direct	There are six persons,	•	s the sister of F. B is the	answer these questions. brother of E's husband. D is the father mother in the group.
Q.98	Who is the mother ? (1) A	(2) B	(3) D	(4) E
Q.99	Who is E's husband ? (1) B	(2) C	(3)A	(4) F
Q.100	How many male mem (1) One	abers are there in the gro (2) Two	up ? (3) Three	(4) Four

- Q.101 An enterprising businessman earns an income of Re. 1 on the first day of his business. On every subsequent day, he earns an income which is just double of that made on the previous day. On the 10th day of the business, his income is

 (1) Rs. 2⁹
 (2) Rs. 2¹⁰
 (3) Rs. 10
 (4) Rs. 10²
- Q.102 A number consists of two digits whose sum is 11. If 27 is added to the number, then the digits change their places. What is the number? (1) 47 (2) 65 (3) 83 (4) 92
- Q.103 A dice is thrown four times and its four different positions are shown below. Find the number on the face opposite the face showing 2.



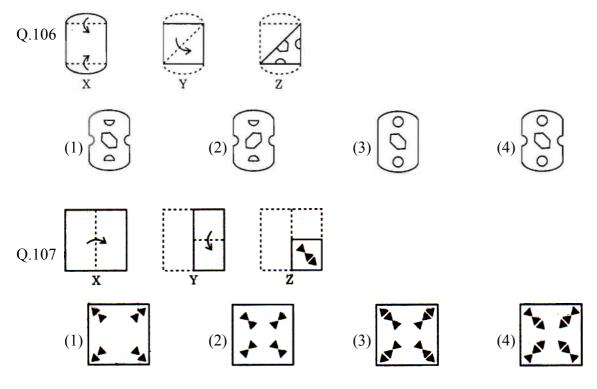
Directions (Q.104 & Q.105): Refer to the following diagram



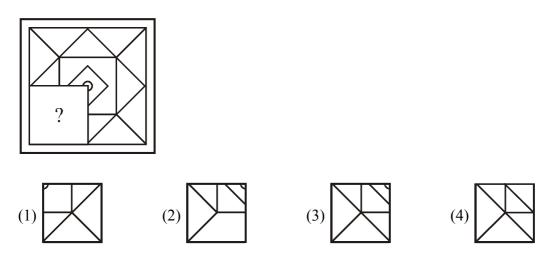
Q.104	The number of students	s who took any three of	the four subjects	
	(1) 64	(2) 62	(3) 61	(4) 65

Q.105 Which subject was taken by the largest number of students ? (1) Science (2) History (3) Geography (4) Mathematics

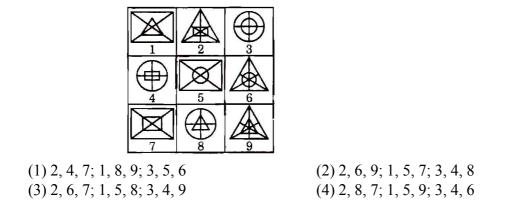
Direction (Q.106 & 107) : Paper has been folded and cut in the following manner. Choose a figure which would most closely resemble the unfolded form of figure Z.



Q.108 In the following question select the figure from amongst the four alternatives which when placed in the blank space will complete the pattern.



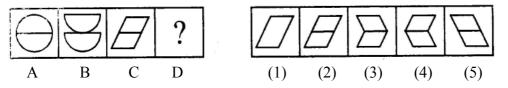
Q.109 In question, group the given figures into three classes using each figure only once.



Q.110 Choose the alternative which most closely resembles the water - image of the given combination.

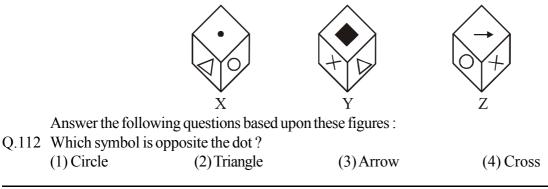


Q.111 In the following question the problem figure II has certain relationship with I. Find the figure that would have same relation with figure III.



Directions (Q.112 & Q.113) :

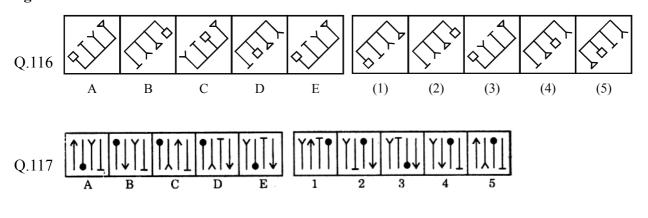
A cube has six different symbols drawn over its six faces. The symbols are dot, circle, triangle, square, cross and arrow. Three different position of the cube are shown in the figures X,Y and Z.

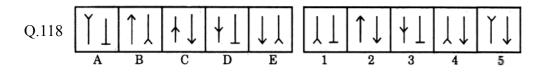


Q.113	Which symbol is opposite the arrow ?			
	(1) Circle	(2) Triangle	(3) Dot	(4) Cross

- Q.114 Choose the alternative which most closely resembles the mirror image of the given comination : AN 5 4 W M G 3 (1) EDWM 72NV (2) EDWM 72NA (3) 3 GWM 72NV (4) EGWM 72NV
- Q.115 In a secret way of writing INDIA HAS WON FIRST GOLD MEDAL is written as JEZJU OUV SEF PJDVB REQZ ITZUQ. Bearing the method in mind, pick up the code from the answer choice for the given word FOOT
 (1) PEEB (2) SEEZ (3) BEEB (4) CEEA

Directions (Q.116 to Q.118): Select the figure which will continue the series established by the problem figures.





Directions (Q.119 & Q.120) : Select the figure which will continue the series established by the problem figures.

