#### **SAMPLE QUESTIONS (CET MAHARASHTRA)**

1.	complete it in	15 days. When	Ajit and Shailendra	alternately works	hailendra working togeth for a day each, the wor				
	•	•	•		mplete twice the work is				
	(a) 30	(b) 40	- (c)-52	(d) 60	(e) None of these				
2.	A and B run a	1560 m race endi	ng in a dead heat. At	first, the speed of	A and B are in the ratio o	of 7 : 5.			
	B then quicke	ns his pace and f	or the remainder of th	ne race runs 40 pe	ercent faster than A. How	/ many			
	metres A run b	pefore B quickens	his pace?						
	(a) 650	(b) 780	(c) 910	(d) 900	(e) None of these				
3.	In a triangle A	BC, AB = 3 cm, A	C = 4cm and the leng	th of the median A	D to the side BC is 3.5cn	n, then			
	the side BC is	equal to							
	(a) 1		(b) 3.25		(c) 5				
	(d) cannot be	determined	(e) None of the	ese					
4.	The cost price	e of an article is F	s.16. The percentage	e of profit when c	alculated on the selling p	orice is			
	numerically ed	numerically equal to the selling price. Then the selling price of the article is							
	(a) 20		(b) 40		(c) 80				
	(d) Both (a) ar	nd (c)	(e) None of the	ese					
5.	In the given fig	gure, PT is the tan	gent to the circle, ∠B	TP = $56^{\circ}$ , then $\angle E$	BAT =, where A is an	y point			
	on the minor a	rc BT.		В					
	(a) 56°		(b) 124°						
	(c) 304°		(d) 100°	(    /    )					
	(e) None of the	ese							
			,	T	P				
			\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						

<u>Direction for questions 6 – 12</u>: The passage below is followed by questions based on its content. Answer the questions on the basis of what is stated or implied in the passage.

Early in the careers of most, novelists, the critics nag and carp; later, the cold eye of reassessment is cast over their life's work at the peak of a writing career, which is where Doris Lessing now stands, the years of solid achievement command maximum respect.

A survey of critical responses to Lessing's books might reveal curious strata of social history. It is hard to remember now that she was once considered very daring and very militant (she insisted that relations between the sexes were difficult and unequal). She has been accused of being a feminist, and then accused by feminists of not being a feminist enough. She has been a communist, but then moved on from a belief in simplistic political solutions to interest in deeper psychological change, touching on themes of madness and of mystical and extrasensory states of consciousness.

Lessing has written clearly into all her work the conviction that we are moving blindly and inevitably toward global catastrophe. Her message seems to be our complete moral and social bankruptcy, particularly in the relations between men and women. Hers is not an angry feminism, though her men are rather poor creatures compared to her bruised but gritty women. Anger may imply a hope that things could be better if only some sense could be knocked into somebody's head, a hope for a time "after the revolution." One does not feel that Lessing sees any hope, only perpetual deadlock.

Certainly Lessing has earned the respect accorded to a writer 'of her stature and productivity. Doggedly she has been writing into her fiction signposts and warnings that we need desperately to be reminded of and writing in a way that has been more persuasive and imaginative than if she had been a pure polemicist. But the critic has the problem of distinguishing between what an author says and the way, she says it. The moralist in Lessing, struggling with the very skilled writer, at times has made her writing prolix, clogged, slow-though in her latest novels she has successfully introduced a leavening of fantasy. The fact is that there are writers who in an economical page or two can make us feel our dilemmas more piercingly than she does in a leisurely fictional experience. Missing from her work is that sense of time and space gathered up for a moment between the hands, that sudden shift from understanding to seeing directly, that we expect at rare moments from our storytellers.

- According to the passage, Lessing's feminism is characterized by which of the following?
  - I. A lack of concern for the well-being of males.
  - II. A special emphasis upon the problems of women in professional life.
  - III. A belief that antagonism between the sexes is inevitable.
  - (a) I only
- (b) III only
- (c) I and II only
- (d) I and III only
- (e) II and III only
- 7. The aspect of Lessing's work most extensively discussed in the passage is its
  - (a) pungent humor

(b) disarming candidness

(c) scrupulous scholarship

(d) unrelenting moralism

- (e) feminine bias
- 8. According to the passage, which of the following can be attributed to Lessing's concern with warning society of its deterioration?
  - (a) Recurrence of the same situations in her various writings.
  - (b) A readership whose interest in her writing is more political than literary.
  - (c) Concentration of the critics on her craftsmanship rather than her "message."
  - (d) A tendency for her prose to be labored and verbose.
  - (e) Her social and political activism.

- 9. The passage suggests that the author admires writers
  - (a) whose fiction is less militant than Lessing's.
  - (b) who express greater optimism and hope than Lessing does.
  - (c) whose insights are succinctly and trenchantly developed.
  - (d) whose writings have been characterized by stylistic innovation.
  - (e) who are less dogmatic.
- 10. The passage implies that the author views communism as an ideology that
  - (a) fails to accommodate the complexities of society.
- (b) is hostile to artistic creativity.
- (c) fosters an acute awareness of social injustice.
- (d) is congenial to feminist concerns.

- (e) has outlived its utility.
- 11. The author's attitude toward Lessing can best be described as one of
  - (a) serious reservation

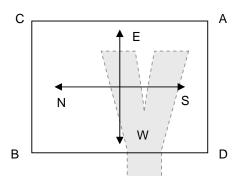
(b) grudging respect

(c) enthusiastic endorsement

(d) qualified admiration

- (e) unabashed admiration.
- 12. The passage suggests that one reason why opinion regarding Lessing's feminism has changed is that
  - (a) the focus of her literature has changed from social issues to psychological states.
  - (b) she has gradually adopted a more conservative position on the roles and rights, of women.
  - (c) feminists today find her work irrelevant to their concerns.
  - (d) her views no longer seem as revolutionary as they once did.
  - (e) She remains involved with peripheral issues.

**DIRECTIONS:** Look at the figure given below for questions 13 – 14, and answer the questions



- 13. A starts crossing the field diagonally. After walking half the distance, he turns right, walks some distance and turns left, which direction is A facing now?
  - (a) North-East
- (b) North-West
- (c) South-East
- (d) South-West
- (e) North

- 14. From the positions in the figure, A and C move diagonally to opposite corners and then one side each clockwise and anti-clockwise respectively. D and B move two sides each clockwise and anti-clockwise respectively. Where is A now.
  - (a) At the North-West corner.

(b) At the North-East corner.

(c) At the South-East corner.

- (d) At the South-West corner.
- (e) Mid way between original position of B and D.

<u>Direction for questions 15 – 17:</u> choose the correct alternative.

15. If 22 + 1 = 30,

$$43 + 4 = 75$$
 Then  $59 + 5 = ?$ 

- (a) 64
- (b) 72
- (c) 86
- (d) 99
- (e) None of these

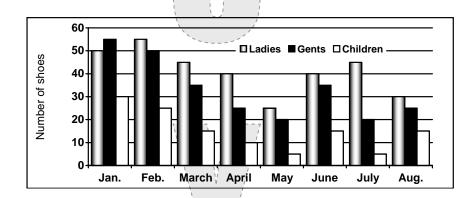
16. If  $2 \times 2 = 8$ 

$$3 \times 3 = 18$$
 Then  $4 \times 4 = ?$ 

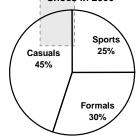
- (a) 32
- (b) 64
- (c) 16
- (d) 8
- (e) None of these

- 17. Which pair of numbers is different from the, rest?
  - (a) (5, 15)
- (b) (6, 24)
- (c) (7, 49)
- (d) (9, 63)
- (e) None of these

<u>Direction for questions 18 – 22:</u> Prem stores sells the diversified items. One of the items sold by the store is shoes. The following graph gives the number of airs of shoes sold in the eight months ladies, gents and children in the year 2001. The pie-diagram shows the distribution of formal, casual and sports shoes. Refer to this to answer the questions that follow.



Distribution of Different Cateogries of Shoes in 2000



18.	In the month of May, average price of pair of show was Rs. 430. If the average price of ladies, gents and children's shoes were in the ratio of 4 : 5 : 3, then what was the average price of a pair of ladies shoes?							
	(a) Rs. 100	(b) Rs. 400	(c) Rs. 300	(d) Rs. 500	(e) None of these			
19.			il and May, then how	much was the perc	centage increase in average			
	(a) 55%	(b) 50%	(c) 33 $\frac{1}{3}$ %	(d) Rs. $66\frac{2}{3}\%$	(e) None of these			
20.	If in the month of	of Jan, 24% ladie	s bought sports show	and in May 80% I	ladies bought casuals, then			
	what was the pe	•	ce between the sport	s show purchased	by ladies in Jan Than the			
	(a) 10%	(b) 67%	(c) 40%	(d) 33%	(e) None of these			
21.		fference in the nu or the above giver	_	ents who bought sp	ports shoes and ladies who			
	(a) 33	(b) 65	(c) 16	(d) 20	(e) None of these			
22.		han the number o			n and ladies decreased or ering the number of pairs of			
	(a) 2	(b) 3	(c) 1	(d) 4	(e) None of these			
			ences are given with be question. Choose the		n with an appropriate word.			
23.	A poor man	I knew ı	nursed the orphan.					
	(a) what	(b) that	(c) who	(d) which	(e) whom			
24.	My father can't _	very v	vell as he's slightly dea	af.				
	(a) listen	(b) grasp	(c) recall/	(d) understand	(e) hear			
25.	Many	of wildlife are b	ecoming instinct.					
_0.		(b) species	(c) examples	(d) brands	(e) makes			
26.		tunist of the first of the various pol		ing on the fence	and is trying to weigh the			
	(a) proposals	(b) prospects	(c) perspectives	(d) possibilities	(e) purpose			

27. To say that science is either good or bad is irrelevant because science is in the mind of man, and it does not have any \_\_\_\_\_ apart from the mind of man.

(a) relevance

(b) existence

(c) meaning

(d) essence

(e) none of these

<u>Direction for questions 28 – 34:</u> In each of the following questions, there is a set of four figures labelled A, B, C and D called the Problem Set followed by a set of five other figures labelled a, b, c, d and e called the Answer Set. Fig. (C) Contains a question-mark. Select a suitable figure from the Answer set which will substitute this question-mark so that a series is formed by the figures A, B, C and D taken in order. The number of the selected figure is the answer.

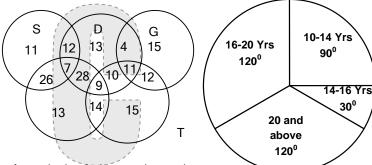
# **PROBLEM FIGURES ANSWER FIGURES** 11 Ш 28. 111 111 29. d $\mathbf{c}$ X\$X 30. $\overline{ullet}$ D b 31. 32. 33. 34. d

35.	The value of wher	x = 2  and  y = -2	is					
	(a) – 18	(b) – 14	(c) 14	(d) 18	(e) None of these			
36.	The sum of two nu	umbers is 15 and th	ne sum of their squa	res is 113. The num	nbers are:			
	(a) 4, 11	(b) 5, 10	(c) 6, 9	(d) 7, 8	(e) None of these			
37.	If in a right angle t	riangle, three sides	are 3, 4, 5, what is	the circumradius of	the triangle?			
	(a) 5	(b) 2	(c) 9	(d) 2.5	(e) None of these			
38.	The difference bet	tween largest four	digit number and sm	allest four digit num	nber is			
	(a).8999	(b) 9998	(c) 8899	(d) 8888	(e) None of these			
39.	Two numbers are	in the ratio 1: 5.	If 5 is added to eacl	n number, their rati	io becomes 1 : 4. State the			
			rrect pair of numbers					
	(a) 16, 80	(b) 20, 100	(c) 15, 75	(d) 10, 5	(e) None of these			
40.	Seema weighs 5/	9 of her weight plu	s 20 kg. What is the	actual weight of se	ema?			
	(a) 36 kg	(b) 72 kg	(c) 27 kg	(d) 45 kg	(e) 30kg			
41.	A is 5 year young	er than B who is 3	times as old as C. If	C was 10 years old	d 4 years back. How old will			
	A be after 6 years	?						
	(a) 35 years	(b) 43 years	(c) 40 years	(d) 30 years	(e) 38 years			
42.	A student was ask	ked to multiply a ce	rtain number by 4 ar	nd add 3 to it. Instea	ad he divided it by 4 and			
	subtracted 3 from it. If he got the answer 1, what should have been the correct answer?							
	(a) 65	(b) 67	(c) 62	(d) 60	(e) 66			
Direc	ctions for Question	ns 43 – 52: In th	ne following passag	e, there are blanks	s, each of which has been			
numb	ered. These number	ers are printed belo	ow the passage and	against each, five v	vords are suggested, one of			
which	n fits the blank appr	opriately. Find out	the appropriate word	I in each case.				
Scho	ols in India have	e (43	) turned into inst	itutions where th	e emphasis is more on			
(44	) the p	ockets of guard	ians∖ than ⁄ on enli	ghtening the stu	dents. Tuition fees have			
(45	), but th	ne sky does not	seem to be the I	imit. Apart from t	he general hikes in fees,			
(46	) payme	nts are demanded	for development pro	ojects which are no	t (47) spent for			
				•	in good 'English Medium'			
					n the hike in school fees far			
					or the young was, however,			
					ated unemployed could be			
		e syllabi in a way	so as to (52	) the majority	from reaching the white -			
collar	job market.							

(a) recently 43. (b) lately (c) definitely (d) surprisingly (e) surely 44. (a) burdening (b) loading (c) lightening (d) overloading (e) reducing 45. (c) reduced (d) skyrocketed (e) augmented (a) increased (b) decreased 46. (a) additional (b) particular (c) unusual (d) special (e) usual 47. (a) always (b) only (c) often (d) frequently (e) repeatedly 48. (a) worried (b) anxious (c) ready (d) careful (e) concerned 49. (a) difficult (b) odd (c) embarrassing (d) unenviable (e) arduous 50. (a) outdoes (b) excels (c) outstrips (d) outnumbers (e) surpasses 51. (a) sorrow (b) happiness (c) mood (d) pleasure (e) joy 52. (b) prohibit (c) disallow (d) preclude (e) check (a) encourage

<u>Directions for questions 53 – 55</u>: The following Venn diagram represents the five categories of people S,D, .., T with the number for each category, for the age : 10 years and above. The pie chart shows the age group distributions for C and T, which also holds true for all the regions linked to wither C or T or both. All fractions can be rounded off to the nearest natural number. Refer to the diagram and pie chart to answer the questions that follow.

- $S \rightarrow People who smoke$
- $D \rightarrow People who drink$
- $G \rightarrow People who play golf$
- $C \rightarrow People who play cards$
- $T \rightarrow People who chew tobacco C$



- 11, 12, 13, 14 etc. are the number of people that belong to that region.
- 53. How many people who play Cards only and play Golf only belong to age group 16 – 20 years?
  - (a) 4
- (b) 3
- (c) 5
- (d) Data insufficient(e) None of these
- 54. How many people who chew Tobacco and play cards, belong to age group 14-16 years?
  - (a) 2
- (b) 4
- (c) 8
- (d) 7
- (e) None of these

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- 55. How many people who play Golf and chew Tobacco, belong to the age group 10 - 14 years?
  - (a) 4
- (b) 6
- (c) 2
- (d) 7
- (e) None of these

<u>Direction for questions 56 – 58:</u> In each question below are given two statements followed by several conclusions. You have to take the two given statements to be true, even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

56. Statements: (I) All drivers are mechanics. (II) All mechanics are cleaners. Conclusions: (1) All cleaners are drivers (II) Some drivers are mechanics (III) All drivers are cleaners (IV) Some cleaners are mechanics (a) All (I), (II), (III) & (IV) follow (b) Only (II), (III) & (IV) follow (d) Only (II) & (III) follow (c) Only (III) & (IV) follow (e) None follows 57. Statements: (1) Some doctors are engineers (II) All engineers are lawyers Conclusions: (1) Some lawyers are doctors (II) All engineers are doctors (III) Some doctors are lawyers (IV) Some engineers are lawyers (a) Only (I), (III) & (IV) follow (b) Only (III) & (IV) follow (c) Only (I), (II) & (IV) follow (d) Only (H), (III) & (IV) follow (e) None follows 58. Statements: All managers are effective (II) Vikas is effective Conclusions: (I) Vikas is a manager (II) Vikas is an executive (III) Vikas is a worker (IV) Vikas is not a manager (b) Either (II) or (III) follow (a) Only (1) follows (d) None follows (c) Either (1) or (IV) follows (e) Either (I) or (IV) & Either (II) or (III) follow

<u>Direction for questions 59 – 63:</u> Five alternatives are given for the idiom/ phrase underlined in the sentence. Choose the one which best expresses the meaning of the idiom/ phrase underlined.

59. He has fallen out with his wife.(a) had an accident(b) had a quarrel(c) slipped away

(d) gone away together (e) none of these

60. His voice gets on my nerves.

(a) makes me ill (b) pierces my eardrums (c) irritates me

(d) makes me sad (e) none of these

61. We should <u>do away with</u> the present examination system.

(a) abolish (b) interdict (c) demolish (d) prohibit (e) none of these

62.	The teacher was as good as his word.								
	(a) ind	capable of a	ction.	(b) ready to fulf	II his promise				
	(c) be	tter than exp	ected.	(d) highly preter	ntious	(e) none of these			
63.	In life	, we have to	take the rough wi	th the smooth.					
	(a) m	ake unpleasa	ant things better.						
	(b) ac	cept unpleas	sant as well as ple	easant things					
	(c) be	tough in ord	ler to be successf	ul.					
	(d) us	e pleasant w	ords to make thin	igs smooth.					
	(e) no	ne of these.							
Direc	tion fo	or questions	<u>s 64 – 68:</u> In each	of the questions b	elow, sentences ar	e given which are denoted by			
(a), (	b), (c),	(d) and (e)	. By using all the	e five sentences, y	ou have to frame a	a meaningful paragraph. The			
corre	ct orde	r of the sen	tences is your an	swer. Choose from	the five alternative	es the one having the correct			
order	of sen	tences and r	mark it as your ans	swer.					
64.	(A)	This seems to be surprising that the cold winter weather comes when it is nearest the Sun and							
		the hot summer when it is farthest away.							
	(B)	In other words, Earth is nearest to the Sun in winter and farthest from it in summer in the northern hemisphere.							
	(C)	While in Jul	y, it is farthest fro	m the Sun (152,099	9,000 km.).				
	(D)		n early December, 97,000 km.).	the Earth in its yea	arly journey around	the Sun comes nearest to the			
	(E)	But for those who live in the southern-hemisphere, cold weather comes in July and the hot season in December.							
	(a) B	CDAE	(b) EACBD	(c) DBCAE	(d) BDCEA	(e) DCBAE			
65.	(A)	Then came the news that a glass or two of red wine was the way to health and happiness – a matter of much rejoicing for the spiritually – deprived.							
	(B)	The colours	that surround yo	u, we were told nex	t, could cast a shad	e on your psyche.			
	(C)	A while ago	, we were told the	at screaming and y	elling and letting it a	all hang out was the best way			
		to reduce s	tress.	\ /					
	(D)	Perhaps thi	s high decibel the	rapy was too aurall	y unnerving.				
	(E)	So keep off	red and black an	d chase away your	blues with the color	ır blue.			
	(a) AI	OCBE	(b) BDCEA	(c) BACDE	(d) CDABE	(e) CDEBA			

- 66. (A) The characteristic spectral signatures of the terrestrial bodies are detected by remote sensors aboard satellites and aircraft.
  - (B) It, therefore, essentially involves measuring the electromagnetic radiation of the Sun that is reflected, scattered or re emitted by objects from airborne or space platforms on the basis of the reflection of the electromagnetic radiation.
  - (C) Remote sensing is a method of recording information without actual contact with the object or area being investigated.
  - (D) Remote sensing can, therefore, provide reliable and timely information on natural resources, both renewable and nonrenewable.
  - (E) It uses the visual, infrared and microwave portions of the electromagnetic spectrum.
  - (a) CEAED (b) EBADC (c) EADCB (d) BCDAE (e) ABCDE
- 67. (A) Is it just a warm, gooey feeling of sentimental pleasure which must necessarily give way to the cold, hard facts of pain and hunger and want suffered by vulnerable sections of our society, in an often hostile and alien world?
  - (B) To be 'unhappy' is to feel at odds with the circumstances in which one finds oneself.
  - (C) To be 'happy' is to feel at one with 'hap', the happenings that take place in one's experience.
  - (D) But does this mean that happiness is just a passing state?
  - (E) We usually think of 'happiness' as a state of mind, which alternates with an opposite state called 'unhappiness'.
  - (a) BECDA (b) DBEAC (c) EBCDA (d) BEDCA (e) ACBDE
- 68. (A) Girls on the other hand are plumped for teaching, veterinary care or child care.
  - (B) Girls have entered the age of reason while boys are doing just the opposite.
  - (C) Market researchers now put forward apocalyptic visions of a generation of lost boys engrossed in fantastic future pursuits, while girls are getting down to the nitty gritty of surviving in a competitive world.
  - (D) The careers that boys choose, too, are somewhat out of sync with reality, football and flying fighter planes being in the forefront.
  - (E) Despite these woolly headed ideas about the ideal career, boys are not displaying any great concern for growing unemployment, while in complete contrast, girls have a much higher grasp on reality.
  - (a) CBAED (b) EBADC (c) EADCB (d) BCDAE (e) ABCDE

DIRECTIONS: In question 69 to 73, some relationships have been expressed through symbols, which are explained below X = greater than□ = not less than  $\div$  = not equal to  $\phi$  = equal to + = not greater than  $\Delta$  = less than -In each of the following questions, find the correct answer and write its serial number in the answer sheet. 69. If a x b  $\Delta$  c, it follows that (a)  $a \phi c \Delta b$ (b) b □ a x c (c) a □ b + c (d) c + b □ a (e) b □ a φ c 70. If  $a \div b \div c$  it does not imply that (a)  $a \Delta b x c$ (b) b ∆ c x a (c) axc∆b (d) cxb∆a (e) bxa o c 71. If a  $\Delta$  b  $\Delta$  c, it does not imply that (a)  $b x a \Delta c$ (b) c x b x a (c) a A c x b (d) a x c x b (e) a + b + c72. If a + b + c, it does not imply that (a) a  $\phi$  b  $\Delta$  c (c) a  $\Delta$  b  $\Delta$  c (d)  $a \Delta b \phi c$ (b)  $c \phi b \Delta a$ (e) a  $\phi$  b  $\phi$  c 73. If a  $\square$  b x c, it implies that

<u>Direction for questions 74 – 78:</u> The first and the last sentences of the passage are numbered 1 & 6. The rest of the passage is split into four parts and named A, B, C, and D. These four parts are not given in their proper order. Read the passage and find out which of the five combinations is correct.

A.

C.

6.

(c). b x a x c

- 74. 1. He tried opening the door.
  - B. Then he stepped into the room.
  - D. It opened easily and he peeped in.
  - (a) DBAC

(a)  $a \times c + b$ 

(b) CABD

(b) cxbxa

- (c) DACB
- The room was neat and clean.
- He waited for a minute or two.
- He was careful not to touch anything.
  - (d) BDAC

(d) a ∆ b □ c

(e) ADCB

(e) a □ b o c

- 75. 1. "What's the matter, Jimmy, why are you crying?"
  - A. "Well, you shouldn't cry about a thing like that, you know."
  - B. "Dad was carrying a huge stone and it fell on his foot," said Jimmy.
  - C. "Was he badly hurt?"
  - D. "No, I don't think so, but he was very angry."
  - 6. "I didn't. That's just the trouble. I laughed"
  - (a) ABCD
- (b) BACD
- (c) BADC
- (d) BCDA
- (e) BDCA

76.	1.	I was awa	akened in the nigh	t by a noise in the hous	se.				
	A.	I quickly p	out on my dressing	gown and crept down	stairs.				
	B.	B. In the living room I discovered two burglars breaking into my desk.							
	C.	C. As I switched on the light I saw that it was 2 o' clock.							
	D.	They were	e both tall; dark m	en.					
	6.	As soon a	as they saw me sta	anding there, they rush	ed to the window ar	nd jumped out.			
	(a) A	BDC	(b) ADCB	(c) CABD	(d) ABCD	(e) CBAD			
77.	1.	There has	s been an alarming	g increase in the numb	er of vehicles on De	elhi roads.			
	A.	The pede	strian has, howeve	er, been the worst suffe	erer.				
	B.	There is r	no place where the	e pedestrian can move	freely without fear o	of traffic.			
	C.	Zebra – c	rossings like the p	avements are no longe	er safe.				
	D.	This has f	urther aggravated	the problem of pollution	on in the city.				
	6.	Should th	e pedestrian's cas	e be allowed to go by	default?				
	(a) A	ABCD	(b) DACB	(c) DCAB	(d) DBCA	(e) DCBA			
78.	1.	Life is haz	zardous.						
	A.	A. And prey have evolved adaptations that reduce the risk of being eaten.							
	B.	B. Many animals are killed and eaten by other animals.							
	C.	C. And many predators die from starvation because they fail to secure prey.							
	D.	Predators	have continued to	o evolve adaptations th	at enable them to lo	ocate and kill prey.			
	6.	<ol> <li>Everything points to a special kind of arms race with elaborate counter – strategies for attack and defence.</li> </ol>							
	(a) B	BACD	(b) BCAD	(c) DBCA	(d) BCDA	(e) ABCD			
79.	Wha	t is the cost	paid by an Eskim	no to make an igloo wit	h a sheet of canvas	s? Base radius of the tent =			
		What is the cost paid by an Eskimo to make an igloo with a sheet of canvas? Base radius of the tent = 7m and cost to canvas = Rs.25/sq.m.							
	(a) R	Rs.8000	(b) Rs.7700	(c) Rs.7000	(d) Rs.5500	(e) None of these			
80.	If x =	= √3/2, [√(1 -	+ x) + √(1 – x)] / [√	$(1 + x) - \sqrt{(1 - x)} = ?$					
	(a) √		(b) √3/2	(c) 3√2	(d) 1/√3	(e) None of these			
81.	Wha	t is the num	ber which when s	ubtracted from its squa	re is 5 times itself?				
	(a) 4		(b) 5	(c) 6	(d) 8	(e) None of these			
82.	555	is the same	as which of the fo	llowing?					
	(a) 5	5 × 5	(b) $5 \times 5 \times 5 +$	430 (c) 5 × 55 + 275	(d) 55 x 5 + 200	(e) None of these			

83.				oat downstream is	20 kmph whereas it	is 10 kmph upstream.	What is
		speed of the	current?				
	(a) 1	0 kmph	(b) 8 kmph	(c) 5 kmph	(d) 2.5 kmph	(e) None of these	
84.				•	years. Among them aining 13 persons?	, the age of each of	the two
	•	3 yrs.	(b) 28 yrs.	_ (c) 26 yrs	(d) 25 yrs.	(e) None of these	:
Direc	ction f	or question	ns 85 – 89: The fo	llowing sentences	are divided into four	parts 'a', 'b', 'c' & 'd'. N	√ark the
		_	r. If there is no erro				
85.	(a)	The forem	nan of 'C' shop	(b) is a kno	own hooligan;		
	(c)	the worke	rs	(d) tremble	at his		
86.	(a)	I wasn't kı	nowing	(b) that I c	ommitted		
	(c)	so many e	errors.	(d) in spea	king and writing Eng	lish.	
87.	(a)	By and la	rge	(b) our pro	duction pattern		
	(c)	has confo	rmed	(d) to that	of the last year.		
88.	(a)	I rememb	er very well that or	ne			
	(b)	of the first	t things he used to	do			
	(c) after entering the class was to ask the boys to						
	(d) open their text book on some page or the other.						
89.	(a)	In case if	he drops in,	(b) tell him	to see me		
	(c)	in my offic	ce	(d) on Mor	day at 11 o' clock		
		•		- \ \ \ f = 7		allotted artificial valu	
			_	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Examine the figures	s and values and writ	e serial
numb	per of		wer on the answer	sheet.			
90.	lf	$3 \times 4 = 16$	809	\ /			
		$5\times 6=36$	625				
		1 × 2 = 41					
	then	4 × 7 =?					
	(a) 1	649	(b) 74	(c) 4916	(d) 148	(e) 144	

91. if 
$$3 \times 2 \times 9 = 923$$

$$4\times1\times3=314$$

$$5 \times 3 \times 6 = 635$$

then  $4 \times 3 \times 9 = ?$ 

- (a) 428
- (b) 439
- (c) 934
- (d) 349
- (e) 439

92. if 
$$30 + 40 = 1520$$

$$36 + 28 = 1814$$

$$40 + 20 = 2010$$

then 50 + 22 = ?

- (a) 1125
- (b) 1126
- (c) 2511
- (d) 1104
- (e) 2250

93. If 
$$4 \times 5 = 1625$$

$$5 \times 6 = 2536$$

$$4 \times 6 = 1636$$

Then  $3 \times 2 = ?$ 

- (a) 162
- (b) 94



- (d) 812
- (e) 254

94. If 
$$9-3=12$$

$$8 - 3 = 10$$

$$7 - 3 = 08$$

then 
$$6 - 5 = ?$$

(a) 1

(b) 2



(d) 4

(e) 5

**DIRECTIONS:** In questions 95 to 96 terms of various letter series are given with one term missing (?). Find out the missing term from the alternatives given below and write its serial number on the answer sheet against the question number.

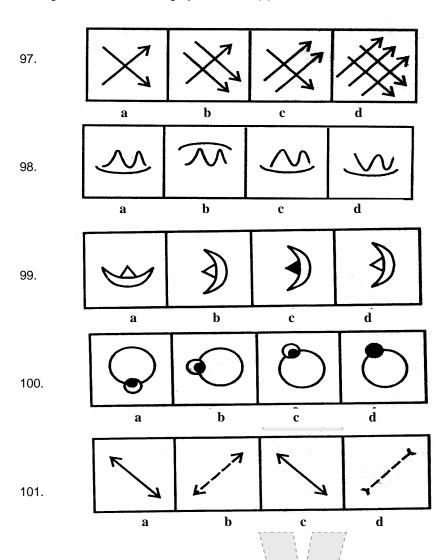
- 95. AH, DK, GN, JQ, ?, PW
  - (a) LV
- (b) MW
- (c) MT

(c) 3

- (d) NX
- (e) KT

- 96. EYXB, HVUE, LRQI, VHGS, ?
  - (a) AZYD
- (b) YDEV
- (c) SJKP
- (d) NPOK
- (e) TKPO

Directions in questions 97 - 101: Three out of the four figures in each question belong to one class or category. Only one figure is different. Mark your answers as (a), (b), (c) or (d). If all figures in each question belong to one class or category then mark (e).



- 102. The volume of the greatest sphere cut off from a cylindrical wood of base radius 1 cm and height 5 cm
  - (a)  $\frac{4}{3} \times 5\pi \text{ cm}^3$  (b)  $\frac{4}{3} \times \pi \text{ cm}^3$  (c)  $5\pi \text{ cm}^3$  (d)  $4\pi$  (e) None of these

- 103. In a right angled triangle with sides a, b and hypotenuse c, the altitude drawn on the hypotenuse is x, then

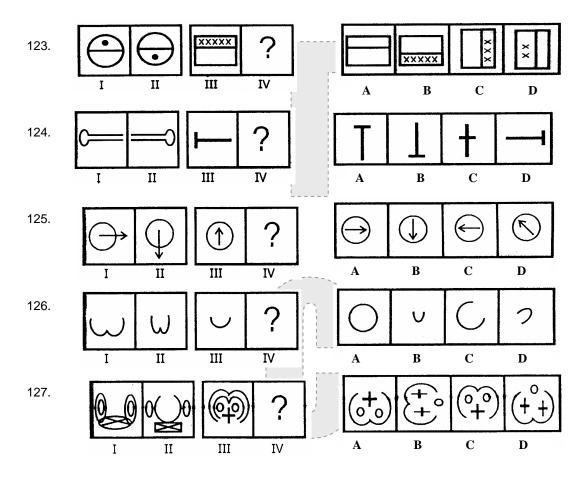
- a)  $ab = x^2$  (b)  $\frac{1}{a} + \frac{1}{b} = \frac{1}{x}$  (c)  $a^2 + b^2 = 2x^2$  (d)  $\frac{1}{a^2} + \frac{1}{b^2} = \frac{1}{x^2}$  (e) None of these

104.	If the volume in sphere is	m <sup>3</sup> and surface a	rea in m <sup>2</sup> of sphere	e are numerically	equal, then the radio	us of the
	(a) 4m	(b) 3.5m	(c) 3m	(d) 2m	(e) None of these	)
Direc	ction for Question	<u><b>s 105 – 109:</b> l</u> n ea	ach of the following	questions, a part	of the sentence is p	rinted in
bold.	Five alternative me	eanings of the bold	part of the senten	ce are given belov	v the sentence. Mark	as your
answ	er the number of th	at alternative, the n	heaning of which yo	ou think is correct.		
105.	Maharashtra and	Karnataka are at lo	ggerheads on the	problem of border	issue.	
	(a) agree		(b) disagree		(c) in dispute	
	(d) discussions ur	nder progress	(e) None of these	)		
106.	If you ask him to s	synthesize, he will d	lo it at the drop of	a hat.		
	(a) unwillingly	(b) immediately	(c) happily	(d) directly	(e) straightaway	
107.	Sandhya and Med	dha are at <b>daggers</b>	drawn ever since t	heir children fough	nt with each other.	
	(a) friendly		(b) adverse	(c) had heated	arguments	
	(d) very unfriendly	,	(e) favourable			
108.	The information v	vhich you gave rec	arding the examin	ation date is <b>at v</b>	ariance with what I	received
	from students.		,			
	(a) is same		(b) is different fro	m (c)	is similar	
	(d) is slightly diffe	rent	(e) None of these	•		
109.	He had made a for him.	ortune in business	but blew it all awa	y in alcohol, so it	was <b>back to square</b>	one for
	(a) situation chang	ged.		(b)	condition improved.	
	(c) back to the situ	uation at which he s	tarted.	(d)	condition worsened.	
	(e) was pleased.		$\setminus \bigvee /$			
Direc	tion for question	s 110 – 113: In ea	ch of the following	sentences, there	are two blank space	s. Below
each	sentence, there are	e five pairs of word	s denoted by letter	s (a), (b), (c), (d) a	and (e). Find out which	h pair of
words	s can be filled up in	the blanks in the s	entence in the sam	e sequence to ma	ke the sentence mea	ningfully
comp	olete.					
110.	Students these da	ays are	, because	of which the resu	Its have	_ a lot.
	(a) honest, lost		(b) idle, flourished	d (c)	intelligent, suffered	
	(d) sincere, impro	ved	(e) poor, develop	ed		

111.	The lecturer's	O'	ver his subject was	seen through	n his	discourse.
	(a) oratory, dull		(b) mastery, fluent			(c) grip, boring
	(d) skill, long		(e) expertise, unp			(3, 3, 1, 7, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,
112.	The few other re	efugees had to _	since	e Inder alone <sub>-</sub>		_ all the food.
	(a) leave, prepa	red	(b) eat, coo	ked		(c) wait, spoiled
	(d) starve, consu	umed	( <u>e</u> ) cook, <u>w</u>	asted		
113.	The Supreme (	Court	him because	e he was fou	und	on the basis of the
	(a) acquitted, be	etter	(b) sentend	ed, innocent		(c) released, innocent
	(d) blessed, invo	olved	(e) promote	ed, guilty		
114.	_		e 12 cm (length) x d in this container?	, ,	and 5 cm (	height). How many ice cubes
	(a) 60	(b) 54	(c) 8	(d) 4	8	(e) None of these
				\		
Direc	tions for question	ons 115 – 119:	Refer to the table (	given below to	answer th	e questions that follow.
No. o	of students regis	tered for				
		Subject	I Year	- Il Year	III Year	
		Science	20	40	80	
		History	30	60	120	
		Maths	40	80	160	
		Economics	50	70	100	
115.		•		the three yea	ars is less	than the number of students
	registered for Ma		1	/		
	(a) 12.5%	(b) 17.5%	(c) 25%	(d) 2	2.5%	(e) None of these
116.	If the total regist	ration fees colle	ected from the stud	ents of I year	for Science	e, History, Maths & Economic
	is in the ratio 3:	2:3:1. If the	total registration fe	es collected is	s Rs.13500	0, the what is the registration
	fees for Econom	nics?				
	(a) Rs.350	(b) Rs.300	(c) Rs.250	(d) R	s.287.5	(e) None of these
117.	Assuming the da	ata of Q.178, wh	nat is the total regis	stration fees fo	or Maths in	1st year?
	(a) Rs.45000	(b) Rs.4750	0 (c) Rs.5050	00 (d) R	s.50725	(e) None of these

118.	3. If maximum 40 students can sit in a room then what is the minimum number of classrooms required to					
	run the classes eff	fectively?				
	(a) 25	(b) 24	(c) 22	(d) 23	(e) None of these	
119.	What is the total	number of stu	dents in the college if	the student for	other subjects (not given in the	
	table) are in the ra	itio 2 : 5 with th				
	(a) 1084	(b) 1640	(c) 1200	(d) 1190	(e) None of these	
Direc	tion for question	s 120 - 122	: In each question b	elow is given a	statement followed by several	
concl	usion. You have to	assume every	thing in the statement	to be true, then	decide which of the conclusions	
logica	ally follows beyond	reasonable do	oubt from the informati	on given in the s	tatement. Then decide which of	
the a	nswers (a), (b), (c),	(d) or (e) is the	e correct answer.			
120.	Statement: Anyth	ning can be bo	ught with money.			
	Conclusions:					
	(I) Money has the	purchasing po	wer (II) A def	inite value exists	for everything	
	(III) A barter syste	m is non-existe	ent			
	(a) Only (II) & (III)	follow	(b) Only (l) & (III) follo	w		
	(c) Only (I) follows	;	(d) Only (I) & (II) follow	v		
	(e) Only (II) follows	s				
121.	Statement: Busin	ess is the best	option for making mo	ney, still people p	refer to go for service.	
	Conclusions:					
	(I) People do not li	ike money	(II) Business ca	rries a risk factor	as well	
	(III) Jobs are avail	able.				
	(a) Only (1) & (III)	follow	(b) Only (II) & (III) folio	ow .		
	(c) Only (II) follows	S	(d) Only (III) follows			
	(e) All (l), (ll) & (lll	) follow				
			\			
122	Statement: Comp	etitive examin	ations are conducted t	by the organisatio	n to select bright candidates.	
	Conclusions:		\ \ \ /			
	(I) Organisations r	need bright car	ndidates			
	(II) Bright Candida	ites cannot be	selected through any	other tests		
	(III) The ratio of th	e number of a	oplicants to that of vac	ancies is very hig	h	
	(a) Only (I) & (III) f	ollow	(b) Only (III) follows			
	(c) Only (1) follows	S	(d) All (l), (H) & (III) fol	low		
	(e) Only (II) & (III)	follow				

<u>Directions in questions 123 – 127:</u> The first two figures bear a definite relation to each other. Bearing that relation in mind pickup correct figure from the given in front of each question. Mark your answers as (a), (b), (c) or (d). If none of the figures bears that relation then mark your answer as (e)



- 128. If SISTER is coded as 212345 and ARC is 658 then ARREST will be coded as
  - (a) 655243
- (b) 655324
- (c) 655423
- (d) 677427
- (e) 655325

- 129. If SKY is coded as TTMMXX, then LIFE will be coded as
  - (a) MMKKDD
- (b) NNKKFF
- (c) MMLLFF
- (d) MNOOCC
- (e) None of these
- 130. A cone and a cylinder of equal heights have equal radii of their bases. The height of the cone is doubled and that of the cylinder is halved. What will be the ratio of their volumes?
  - (a) 4:3
- (b) 3:1
- (c) -1:3 -
- (d) 1:12
- (e) None of these

## **SAMPLE QUESTIONS (CET MAHARASHTRA)**

#### **ANSWERS**

1. (d)	2. (c)	3. (a)	4. (d)	5. (b)	6. (b)	7. (d)	8. (d)
9. (c)	10. (a)	11. (d)	12. (d)	13. (b)	14. (b)	15. (d)	16. (a)
17. (b)	18. (b)	19. (b)	20. (b)	21. (a)	22. (a)	23. (e)	24. (e)
25. (b)	26. (b)	27. (b)	28. (a)	29. (b)	30. (c)	31. (b)	32. (b)
33. (c)	34. (e)	35. (b)	36. (d)	37. (d)	38. (a)	39. (c)	40. (d)
41. (b)	42. (b)	43. (b)	44. (c)	45. (d)	46. (d)	47. (a)	48. (b)
49. (d)	50. (c)	51. (e)	52. (d)	53. (d)	54. (a)	55. (b)	56. (b)
57. (a)	58. (c)	59. (b)	60. (c)	61. (a)	62. (b)	63. (b)	64. (e)
65. (d)	66. (a)	67. (c)	68. (d)	69. (c)	70. (e)	71. (d)	72. (b)
73. (b)	74. (c)	75. (d)	76. (c)	-77. (b)	78. (d)	79. (b)	80. (a)
81. (c)	82. (b)	83. (c)	84. (d)	85. (e)	86. (a)	87. (e)	88. (d)
89. (a)	90. (c)	91. (c)	92. (c)	93. (b)	94. (b)	95. (c)	96. (d)
97. (c)	98. (d)	99. (c)	100. (c)	101. (d)	102. (b)	103. (d)	104. (c)
105. (c)	106. (b)	107. (d)	108. (b)	109. (c)	110. (d)	111. (b)	112. (d)
113. (c)	114. (a)	115. (c)	116. (b)	117. (a)	118. (b)	119. (d)	120. (d)
121. (d)	122. (a)	123. (b)	124. (d)	125. (a)	126. (b)	127. (c)	128. (c)
129. (e)	130. (a)						