A GRAND STEP TO BE A VIJAY RATNA

CLASS X

Sample Test paper

STUDENTS WHO ARE MOVING TO CLASS XI IN 2018





CLASS-X

moving to class-XI

SCHEDULE & PATTERN

SUNDAY 24TH DECEMBER 2017 Exam Timing-12Noon-3PM

DURATION -3 HRS.

MAX MARKS-200

EXACTLY AS PER NTSE LEVEL-2 PATTERN

SUBJECTS

MAT=MENTAL ABILITY ,REASONING SAT= SCIENCE, MATHS, SO.SCIENCE LCT= ENGLISH

NO. OF QUESTIONS

ENGLISH-50 MENTAL ABILITY/REASONING-50 BIOLOGY-14 CHEMISTRY-13 PHYSICS-13 MATHEMATICS-20 SOCIAL SCIENCE-40

TYPE OF QUESTIONS

OBJECTIVES WITH FOUR CHOICES

MARKING SCHEME

+1 FOR EACH CORRECT ANSWER, NO NEGATIVE MARKING



TEST PAPER

NAME :

REG. NO. :					
9 Digits					

PLEASE READ THE INSTRUCTIONS CAREFULLY.

YOU ARE ALLOTTED 5 MINUTES SPECIFICALLY FOR THIS PURPOSE.

INSTRUCTIONS

- (1) Answers are to be given on a separate answer-sheet.
- (2) Write your eight-digit Roll Number very clearly on the test-booklet and answer-sheet as given in your letter/ admission card.
- (3) Write down the Booklet Number in the appropriate box on the answer sheet.
- (4) There are 200 questions in this test. All are compulsory.
- (5) Please follow the instruction for marking the answers given on the answer sheet.
- (6) If you do not know the answer to any question, do not spend much time on it and pass on to the next one. Time permitting, you can come back to the questions, which you have left in the first instance and try them again.
- (7) Since the time allotted for this question paper is very limited you should make the best use of it by not spending too much time on any one question.
- (8) **Rough work** can be done anywhere in the booklet but not on the answer sheet/loose paper.
- (9) Every correct answer will be awarded one mark.

I have read all the instructions and shall abide by them,

I have verified all the information filled in by the candidate

Name of the Candidate Roll Number / Student ID



5. If A, B, C, D are distinct decimal digits, then which of the following options is correct?

(a) A = 3 B = 7 C = 5 D = 9(b) A = 2 B = 3 C = 6 D = 5(c) A = 3 B = 8 C = 6 D = 5(d) A = 2 B = 3 C = 5 D = 7

6. Observe the following figures representing a balance.



Which of the following figures represents the correct balance?



SPACE FOR ROUGH WORK

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2017

	(a) 1	(b) 2	(c) 3	(d) 4
9.	If South-East becomes No	rth; and North-East becomes	West; then West becomes	
	(a) North-East	(b) South-East	(c) North-West	(d) South-West
10.	A cube is 6 cm in length	n, breadth and height. It is p	painted red on two opposit	te faces, black on the other two
	opposite faces and green of	on the left over faces. It is the	en cut into 216 cubes of sie	de 1 cm. How many small cubes
	have no face painted?			
	(a) 16	(b) 8	(c) 64	(d) 24
11.	Find the odd-one out of the	e following terms :		
	EF22, JK42, GH24, V	/W90, IJ38		
	(a) EF22	(b) GH24	(c) IJ38	(d) VW90
12.	Choose the conclusions wh	hich logically follow from the	e given statements.	
	Statement:			
	All the pens are papers ;	All the papers are boats ; Sor	ne birds are boats	
	Conclusions:			
	(A) Some boats are pens	(B) Some birds are papers	(C) None of the pens are	birds
	(a) Only A and B	(b) Only A	(c) Only C	(d) Only A and C

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{ SE	TALENT	201			CLASS-X
13.	How many qua	drilaterals	are there in the	given figure?	
	(a) 10		(b) 11		
	(c) 12		(d) 13		
14.	Which of the fo	ollowing al	ternatives will	fit in place of 'M'?	
	255, 3610	, 4915, M,	8125		
	(a) 5100		(b) 5420	(c) 6420	(d) 6422
15.	Which of the fo	ollowing al	ternatives will	fit in place of 'M'?	
	L6, O8, R	11, M, X2	5, A42, D75		
1.6	(a) U15		(b) U16	(c) W14	(d) U14
16.	Which of the fo	ollowing al	ternatives will	fit in place of 'M'?	
	7 3	6	2		
	2 8	5	4		
	1 1	2	4		
	4 2	1	М		
	(a) 6		(b) 5	(c) 4	(d) 3
17.	If ' Σ ' means ':	x', 'δ' me	ans ' \div ', ' σ ' m	heans '+' and ' ∞ ' means '-' th	en evaluate the following expression usuing
	standard operat	tor precede	ence.		
	56δ(6σ8)Σ	$\Sigma 4 \propto 1$			
	(a) 52		(b) 24	(c) 15	(d) 43
18.	With what open	rators, sho	uld the symbols	(a) and $<$ be replaced so that the	e following expression is valid.
	$100 - 81 \div$	27 @ 3 < 0	5=115		
	(a) + and -		(b) \times and \div	(c) + and \times	$(d) \div and -$
	PACE FOR RO	DIIGH W	ORK		Page 4
	nel i on ne		onn		



₹₹ SE4	TALENT IRCH EXAM	7		CLASS-X
24.	The average age of A, B them?	and C is 43 years. Which of	the following statements	are required to find the eldest among
	Statements:			
	I: Age of C is 65 year	°S.		
	II : Age of A is 25 year	rs.		
	(a) I is sufficient		(b) Both I and II are re	equired
	(c) I and II together are	not sufficient	(d) II is sufficient	
Dire	ction (Questions 25-26)			
	A class is to be taught fi	ve subjects – Hindi, Physics,	Chemistry, Biology and	Mathematics by five different
	teachers – A, B, C, D an	d E in five periods (1 to 5).	A teacher can teach in only	y one of the periods. The following
	details are available abo	ut the teaching.		
	• A teaches mathema	tics which is not taught in th	e first period.	
	• Physics is taught by	y D in an even numbered per	iod.	
	• Chemistry is taught	t in an odd period, and it prec	edes mathematics period.	
	• E teaches in the first	st period.		
	• C teaches Chemistr	y but not in the first or the la	st periods.	
	• Hindi is taught in the	he last period.		
25.	Which of the following	statements is necessarily true	??	
	(a) Third period is of Hi	ndi taught by B	(b) Second period is o	f Physics taught by C
	(c) Fourth period is of M	Iathematics taught by A	(d) Fifth period of Bio	logy taught by D
26.	Which subject is taught	by B?		
	(a) Physics	(b) Chemistry	(c) Biology	(d) Hindi
27.	A solid metallic cylinde	er of radius 12 cm and heigh	t 175 cm is melted and m	oulded into another solid cylinder of
	height 63 cm . What is the	ne radius of the new cylinder	? () 2 0	
	(a) 14	(b) 4π	(c) 20	(d) 5π
SF	PACE FOR ROUGH V	WORK		Page 6





CLASS-X 36. Which number will come in the place of 'M'? 7 2 20 16 25 8 2 30 36 9 5 24 49 10 7 M (a) 21 (b) 32 (c) 40 (d) 63 The square of the length of a rod AB is 72 cm². If we place the rod in the corner of a room, so that the end A is 37. always on the edge between the two walls of the corner and the end B is always on the floor, what is the maximum possible area of the triangle formed by the rod, the edge between the walls and the floor? (a) $6 \, \text{cm}^2$ (b) 12 cm^2 (c) 18 cm^2 (d) 24 cm^2 38. What is the missing term "?" in the following series ? 2, 6, 6, 5, 10, 4, 14, 3, 18, ? (a) 1 (b) 2 (c) 19 (d) 22 39. In the question given below, there are two statements followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions, and then decide which of the given conclusions logically follows from the given statements? **Statements : Conclusions:** Some kings are queens I. All the kings are beautiful All the queens are beautiful. **II.** All the queens are kings. (a) Only I follows (b) Only II follows (c) Neither I nor II follows (d) Both I and II follow 40. If prime numbers are assigned to English alphabets from A to Z in order MAT will be: (a) 31 1.67 (b) 41 1 67 (c) 37 2 71 (d) 41 2 71

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{ SEA	TALENT RCH EXAM			CLASS-X
45.	How many crosses should	l be there in the box marked v	with '?'?	
	x x x x x x	xxx xx xxxx	X X X X X X X X X X X X X X X X X X X	X X X
	(a) 1	(b) 2	(c) 3	(d) 4
46.	Find the missing term.			
	a, b, d, _, p			
	(a) h	(b) i	(c) j	(d) k
47.	A is East of B and West	of C, D is South-West of C	, and B is South-East of E	. When seen from West to East,
	which of the following see	quences are possible?		
	I: EBDAC	II: DEBAC	III: EBADC	IV: EDBAC
	(a) I and III	(b) I, III and IV	(c) I, II and III	(d) all, I, II, III and IV
48.	A, B, C and D are to be s	eated in a row. C and D can	not be on adjacent seat. Als	o, B cannot be at the third place.
	Which of the following m	ust be false?		
	(a) A is at the fourth place	2	(b) A is at the third place	
	(c) A is at the second place	e	(d) A is at the first place	
49.	Mrs. Kirandeep, a driving	g instructor, has to arrange tra	aining schedule for some of	f her pupils. She has 8 new pupil
	who wish to book either	a morning or evening of a	particular day. The appoint	tment can be given for Tuesday,
	Wednesday, Friday and	Saturday. The instructor ins	structs only one pupil in n	norning and one in the evening
	session.			
	• Mrs. Sabita is only a	vailable Tuesday morning bu	t Mr. Aadıtya can make any	time on a Wednesday.
	• Mrs. Firdaus is free o	on Tuesday all day but Mr. Na	aved is only free Wednesday	y evening.
	• Mrs. Seema is only a	vailable Friday morning whe	reas Mrs. Ritu can only mal	ke Saturday evening.

• Mrs. Shalu is available all day Friday whereas Mr. Ronald can make any time on a Saturday.

SPACE FOR ROUGH WORK



Which of the following two should have morning appointments?

- (a) Mr. Ronald and Mrs. Shalu
- (c) Mr. Aaditya and Mrs. Firdaus
- (b) Mr. Ronald and Mrs. Firdaus
- (d) Mr. Aaditya and Mr. Ronald

50. Just before sunset Veena and Zeba were talking to each other standing face-to-face. If Veena sees Zeba's shadow to be exactly towards the right of Zeba, which direction was Veena facing?

(a) South (b) North

(c) East

(d) North-East

LCT

Direction (Questions 51-55)

Read the following passage and answer the questions based on it. Choose the most appropriate answer. It is taken for granted by the advocates of oriental learning that no native of this country can possibly, attain more than a mere smattering of English. They do not attempt to prove this. But they perpetually insinuate it. They designate the education which their opponents recommend as a mere spelling-book education. They assume it as undeniable that the question is between a profound knowledge of Indian and Arabic literature and science on the one side, and superficial knowledge of the rudiments of English on the other. This is not merely an assumption, but an assumption contrary to all reason and experience. We know that foreigners of all nations do learn our language sufficiently to have access to all the most abstruse knowledge which it contains sufficiently to relish even the more delicate graces of our most idiomatic writers. There are, in this very town, natives who are quite competent to discuss political or scientific questions with fluency and precision in the English language. I have heard the very question on which I am now writing discussed by native gentlemen with a liberality and an intelligence which would do credit to any member of the Committee of Public Instruction. Indeed it is unusual to find, even in the literary circles of the Continent, any foreigner who can express herself/himself in English with so much facility and correctness as we find in many Indians. Nobody, I suppose, will contend that English is so difficult to an Indian as Greek to an Englishman. Yet an intelligent English youth, in a much smaller number of years than our unfortunate pupils pass at the Sanskrit College, becomes able to read, to enjoy, and even to imitate not unhappily the compositions of the best Greek authors. Less than half the time which enables an English youth to read Herodotus and Sophocles ought to enable an Indian to read Hume and Milton.

SPACE FOR ROUGH WORK

SE				CLASS-X
51.	The writer feels that the ac	lvocates of oriental learning	are	
	(a) cautiously open to the	idea of English education.	(b) aware of the tyran	ny of English education.
	(c) irrational in their views	s about English education.	(d) aware of the politi	cs of English education
52.	Which of the following ide	eas does the writer have a pr	oblem with?	
	(a) Some natives are profi	cient in discussing complex	topics	
	(b) knowledge of English	is pitched against that of Ind	lian and Arabic literature	2.
	(c) Foreigners can read an	d enjoy some of the difficul	t English writings.	
	(d) Learning English for a	n Indian can be easier than l	earning Greek for an En	glishman
53.	The foreigner discussed in	the passage is		
	(a) an Arab	(b) a Greek	(c) an Indian	(d) an Englishman
54.	Which of the following se	ntences best captures the ma	in argument of the write	er?
	(a) Many Indians are capa	ble of using English like any	v Englishman.	
	(b) Learning English is as	difficult as learning any oth	er foreign language.	
	(c) The importance of Eng	lish education needs to be re	ecognised by the suppor	ters of oriental learning.
	(d) An Indian can learn Er	nglish in half the time taken	by an Englishman to lea	rn Greek.
55.	According to the author, it	t is easier for		
	(a) Indians to have a profo	ound knowledge of Arabic li	terature and science thar	ı learn English.
	(b) Indians to learn Sanski	rit than for Englishmen to ap	preciate Greek literature	2.
	(c) foreigners to learn Indi	an language than for Indian	s to learn foreign langua	ges.
	(d) Indian to appreciate Er	nglish literature than for Eng	lishmen to appreciate G	reek literature.
Dire	ction (Questions 56-60)			
	Read the following passa	ge and answer the questio	ns based on it. Choose	the most appropriate answer.
	Every day new careers and	d professional opportunities	emerge. No matter how	much each career option excites you,
	you will have to prioritize	and choose the best option	for yourself. Your person	nality, interests, abilities, aspirations,
	strengths and weaknesses	will help you to decide the r	nost viable option for yo	ou. The following exercises are
	important for career plann	ing, and following these wil	l ensure that you are on	the right track. Self-Assessment :
	The entire process of care	er planning should be ideally	done in conjunction wi	th your career counsellor, so that you
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CLASS-X

have professional help at every step. A trained career counsellor can help you identify a variety of professions in which you can excel. Remember to keep your list of possible professions long, so that your confidence in yourself does not wane.

When I took my test, the long list of professions included being a florist, teacher, counsellor, doctor and sales executive. The very idea that I have an aptitude for several professions - and not just to be a doctor - was very comforting. I thought to myself, "When patients get tired of me I can always be a salesman!" Do not let anyone ever tell you that you are good for nothing. Each one of us has several talents, and it is important to first identify them, and then work hard to develop them.

Self-Analysis: Another important aspect of self-assessment is self-analysis or soul searching. We are the best judge of our abilities strengths and weaknesses. If you concentrate and decide to be honest with yourself, self analysis can help you understand your career options better.

Need for Planning : If you ask adults around you whether they actually became what they had wanted to become when they were young, chances are that very few of them actually became what they had aspired towards in childhood. This may not essentially be a reflection of their failure but an indication of change. Circumstances change, ideas change, and so do people. By the time you grow up, you may end up working in professions that neither you nor your parents know about today. Of course some of you may get to work in traditional professions and move along a well-planned path. Whatever the consequence of your planning, the truth about matting a plants that it may not work. But in the words of Henry C. Link, if "you do make a plan, the chances of getting what you want significantly increase."

But one thing is quite certain: only those of you who work hard at your studies, acquire new skills as' you move along in life, involve yourself in cultural/sports activities and attempt to plan your life will be successful.

- **56.** Career planning is an activity that requires
 - (a) analysing one's personality, interests, abilities, aspirations, strengths and weaknesses.
 - (b) working hard at your studies, acquiring new skills as you move along in life and involving yourself in cultural/sports activities.
 - (c) following three important steps in consultation with one's career counsellor, and making a plan that may work.
 - (d) understanding and being aware of the fact that whatever the consequences of one's planning the truth a about as king a plan is that it may not work.

SPACE FOR ROUGH WORK



- (a) 'In career planning, it is important to involve oneself in cultural/sports activities as much as working hard or acquiring new skills.'
- (b) 'Before making a career choice, one should learn to prioritize career options and use one's personality, interests, abilities, aspirations, strengths and weaknesses to plan and decide the most viable option.
- (c) 'In choosing a career, it is important not to allow anyone to tell us that we are good for nothing, because our personality, interests, abilities, aspirations, strengths and weaknesses will help us decide the most viable career options for ourselves.'
- (d) 'A good career choice results when you follow traditional professions and move along a well-planned path.'
- 58. Self-analysis is considered an important part of self-assessment because
 - (a) soul searching helps us to judge our abilities honestly and helps us understand our career options better.
 - (b) we are the best judge of our abilities, strengths and weaknesses, and self- analysis will enable others to analyse our abilities accurately.
 - (c) by the time we grow up we may end up working in professions that neither we nor our parents know about today.
 - (d) each one of us has career options, and it is important to first identify them, and then work hard to attain them.
- **59.** A trained career counsellor can help us
 - (a) do self-analysis, so that we are honest with ourselves.
 - (b) decide whether to be a florist, teacher, counsellor doctor, or sales executive, so that we can be a salesman if we cannot be a doctor.
 - (c) identify our talents, because each one of us has several talents, and it is important to first identify them, and then work hard to develop them.
 - (d) identity different professions that will help us use our abilities, because a trained professional can help us prioritize and choose the option that is most viable for us.

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60. An important point highlighted in the passage is that

(a) only a trained counsellor can help you make the right career choice.

(b) it is our abilities, strengths and weaknesses that help us succeed in our career.

(c) there is not much use of making a plan - very few people get their plans fulfilled.

(d) many people do not get to pursue the career of their choice because circumstances, ides and people change.

Direction (Questions 61-65)

Read the following passage and answer the questions based on it. Choose the most appropriate answer.

If the fact of the fire did not immediately penetrate my consciousness, the heat of the blast did and soon propelled me from my seat. All around me, there was a confusion of upended tables, overtuned chairs, bodies pitched toward the door of the dining room, and the squads of broken glass and crockery. Fortunately, the windows toward the street, large windows through which a body might pass, had been thrown open by an enterprising diner. I remember that I rolled sideways through one of these window frames and fell onto the snow and was immediately aware that I should move aside to allow others to land as I had - and it was in that moment that my altruism was finally triggered.

I rose to my feet and began to assist those who had sustained cuts and bruises and broken bones, or who had been mildly crushed in the chaos. The blaze lit up the escaped diners with a light greater than any other that could be produced in the night. So that I was able to see clearly the dazed expressions of those near to me. Many people were coughing and some were crying, and all looked as though they had been struck by a blow to the head. A few men attempted heroics and tried to go back into the hotel to save those who remained behind, and I think one student did actually rescue an elderly woman who had succumbed to paralysis beside the buffet table; but generally there was no thought of reentering the burning building once one had escaped. Indeed, so great was the heat that we in the crowd had to move farther and farther across the street until we all stood in the college quadrangle, surrounded by bare oaks and elms and stately sycamores.

SPACE FOR ROUGH WORK





(a) the heat and smoke that was generated by the sudden fire.

(b) the effect of the blast on unsuspecting hotel guests.

(c) the loss of crockery glass and bodies in the accident.

(d) the layout of the college quadrangle, surrounded by bare oaks and elms and sycamores.

62. The dazed expression on people's faces was caused by

(a) the blow to their heads.

(b) the heat generated by the blast.

(c) The suddenness and extent of damage caused by the impact of the blast.

(d) the impact of broken glass and crockery being hurled around in the confusion.

- **63.** The words in the passage that suggest there was a blast include
 - (a) fire, heat, confusion, overturned and chaos. (b) blazed, dazed, heroic, succumbed and paralysis.
 - (c) broken glass, cuts, bruises and sycamores. (d) rescue, quadrangle, altruism, trigger and heat.

64. 'The blaze lit up the escaped diners with a light greater than any other that could be produced in the night' can be paraphrased as

- (a) 'The fire set all the escaped diners ablaze.'
- (b) 'The light that set the escaped diners on fire was from a divine night fixe.'
- (c) 'The night sky was lit by such brightness that one could, see the blaze clearly.'
- (d) 'The fire burned in such a way that the writer could see the escaped diners clearly.'
- **65.** The word altruism here means
 - (a) 'the act of rolling across a window.'
- (b) 'a sudden movement triggered by a blast.'
- (c) 'selfless concern for the well being of others.'
- (d) 'the dazed feeling generated by an accident.'

SPACE FOR ROUGH WORK

{ SE	TA				CLASS	5-X	
Dire	ction	(Questions 66	6-67)				
	The	e following five	e sentences come from a pa	ragraph. The first and th	e last sentences are given.		
	Cho	oose the right	order in which the three se	entences (PQR) should ap	pear to complete the paragraph	ı.	
	S1-	A man who p	ossesses a strong will and fin	rm determination finds all o	lifficulties solved.		
	S2-						
	S3-						
	S4-						
	S5-	It is therefore and makes his	, the man who labours hard s fortune.	with a strong resolution and	l an unshaken will, who achieves	success	
	P :	Such a man g	oes on working hard and eve	en if he fails he is never do	wncast.		
	Q :	In turn failure desired succe	es make him all the more det ss.	ermined and resolute and h	e persists in his task till he attain	s the	
	R :	To him there	are a thousand ways open to	steer clear of all dangers a	nd difficulties.		
66.	Cho	oose from the o	ptions given below :				
	(a)]	RPQ	(b) PRQ	(c) QRP	(d) PQR		
67.	S1-	Film theory is an academic discipline that aims to explore the essence of cinema and provides conceptual frameworks for understanding a film's relationship to reality, other arts, individual viewers, and society at large					
	S2-						
	S3-						
	S4-						
	S5-	Film review, whether or no	on the other hand, is the way ot they think the film is worth	v in which critics assess a find the second se	lm's overall quality and determin	ie	
	P:	Film theory in	ncorporates various aspects of	of filmmaking, including an	alysis and review.		
	Q:	One way of analysing films is by the shot-by-shot analysis, though that is typically used only for small clips or scenes.					
	R:	Film analysis	is the process of analysing a	a film in terms of mise-en-s	cene, cinematography, sound and	d editing.	
	Cho	oose from the o	ptions given below:				





Direction (Questions 68-69)

The following questions have the second sentence missing. Choose the appropriate sentence from the given options to complete it.

- **68.** A. A few months ago I went to Princeton University to see what the young people who are going to be running our country in a few decades are like.
 - В.
 - C. I went to sleep in my hotel room around midnight and when. 1 awoke, my mailbox was full of replies sent at 1:15 a.m., 2:59 a.m., 3:23 a.m
 - (a) One senior told me that she went to bed around two and woke up each morning at seven; she could afford that much rest because she had learned to supplement her full day of work by studying in her sleep.
 - (b) As she was falling asleep she would recite a math problem Or a paper topic to herself; she would then sometimes dream about it, and when she woke up, the problem might be solved.
 - (c) Faculty members gave me the names of a few dozen articulate students, and I sent them e-mails, inviting them out to lunch or diner in small groups.
 - (d) Young people stay up late replying to their emails and indulging in social networking.
- 69. A. We are usually inclined to look upon bad temper as a very harmless weakness,
 - B.

C. And yet all religious texts condemn it as one of the most destructive elements in human nature.

- (a) This shows that we lack judgement.
- (b) Often work pressure creates bad temper.
- (c) Bad temper harms human relationship.
- (d) We speak of it as a mere infirmity of nature, perhaps a family failing.

Direction (Questions 70-79)

Fill in the blank with the most appropriate option from the given alternatives.

70. We are trying to ______ correct information and dispel wrong information that is being circulated.

(a) raise	(b) foster	(c) cultivate	(d) disseminate	
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SPACE FOR ROUGH WORK

{ SEA	TALENT RCH EXAM			CLASS-X
71.	When we decided to, move	e, my mother wanted a place	with a outside every	window to keep potted plants
	(a) balcony	(b) ledge	(c) curtain	(d) stained glass
72.	While Dinesh can never a	cquire a choir boyish innoce	nce, he hasand see	ms to know that an entire nation's
	sporting image stands on	the team's sportsmanship.		
	(a) mellowed	(b) discarded	(c) plummeted	(d) flipped
73.	He construction of identit	ty (for both men and women) is by cultur	e, rationality, class and historical
	differences.			
	(a) inferred	(b) interlocked	(c) influenced	(d) instigated
74.	While we believe that Bl	MI is a standard in measuring	ng the fat in our body, the	re is a growingamong
	scientists that it may not b	e the best tool to do so.		
	(a) concord	(b) consensus	(c) congruous	(d) confluence
75.	Under the new rule, the ci	vic body can take	action against the violators	by imposing, a fine.
	(a) punitive	(b) vindictive	(c) pejorative	(d) diminutive
76.	The SG has cautioned H	Cs against reversing the acc	juittal of an accused by the	e trial court unless the judgment
	waswrong.			
	(a) ostensibly	(b) tangibly	(c) palpably	(d) allegedly
77.	From the rim of the exca	vation site the archaeologist	t was unable to surmise ex	actly what the chamber
	might hold.			
	(a) terra firma	(b) subterranean	(c) ground level	(d) beneath
78.	The heat was becoming up	nbearable as the temperature	was rising, the	e rains had been delayed.
	(a) However	(b) Therefore	(c) Moreover	(d) Nonetheless
79.	Miles Davis, the jazz	player,supremely	expressive, didn't have the	ne range or technique to play
	convincingly in the bebop	style.		
	(a) moreover	(b) though	(c) nevertheless	(d) on the one hand

{ SEA	TALENT RCH EXAM			CLASS-X
Direc	ction (Questions 80-85)			
	Select the meaning of the	e underlined phrases/idior	ns.	
80.	It is easy for you to splu	urge when you have your	mom's credit card, but ren	member after the feast comes the
	reckoning.			
	(a) Trust is easy to break.		(b) Truth can't be hidden	1 forever.
	(c) Every action has a con	sequence.	(d) Don't take your paren	nts for granted.
81.	The distance between the	towns is only 30 kms as the	e crow flies.	
	(a) when measured in a str	raight line		
	(b) when measured in a ra	ndom manner		
	(c) when measured betwee	en the two highest points		
	(d) when the curves of the	road are included in the me	easurement	
82.	I didn't want to go to the e	exhibition but Leena twisted	l my arm.	
	(a) forced me	(b) teased me	(c) fought with me	(d) discouraged me
83.	In this age of super specia	alisation, industrial enginee	ers are in demand because t	hey are the only ones who can see
	the big picture.			
	(a) realistic view of somet	hing	(b) complete view of sor	nething
	(c) narrow view of someth	ning	(d) accurate view of som	nething
84.	What is the matter with hi	m? He is falling foul of his	friends.	
	(a) betraying	(b) quarrelling with	(c) losing touch with	(d) being badly hurt by
85.	She gave me a cold should	der when I went to see her.		
	(a) abused me	(b) insulted me	(c) ignored me	(d) scolded me
Direc	ction (Questions 86-93)			
	In the following passage	there are some numbered	blanks. Fill in the blanks	by selecting the most
	appropriate word for ea	ch blank from the given o	ptions.	
	Carnatic vocalist, playbac	k singer and composer Mar	ngalampalli Balamurali Kris	hna, who burst into the music
	world, as a child (36)	, passed away on 22 N	November 2016. The (37)	of Balamurali Krishna

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	include a musical (38)	which showed up	as his ability to (39)	and reproduce music heard just
	once, his ability to (40)	more than one mu	usical instrument, his ability to	compose from the age of 15 and
	finally, his (41)	voice manifested as his a	ability to utter clearly, pronoun	ce faithfully and accent correctly
	the lyrical phrases along	g with the (42) of	f the underlying musical (43) _	and microtones.
86.	(a) spectacle	(b) prodigy	(c) paragon	(d) demigod
87.	(a) talents	(b) potentials	(c) capacities	(d) advantages
88.	(a) perception	(b) smartness	(c) denseness	(d) acumen
89.	(a) recite	(b) retain	(c) realize	(d) repeat
90.	(a) handle	(b) work	(c) create	(d) manoeuvre
91.	(a) abled	(b) gifted	(c) stunned	(d) staggered
92.	(a) signs	(b) slots	(c) tokens	(d) nuances
93.	(a) notes	(b) marks	(c) records	(d) remarks
Dire	ction (Questions 94-97)			
	Select the most approp	priate option to fill in the l	blanks from the given alterna	atives.
94.	Worries	_all kinds of illness, from h	igh blood pressure to stomacha	ache.
	(a) believe to have caus	ed	(b) are believed to be cau	ised
	(c) are believed to cause	e	(d) believed to be caused	l
95.	I all th	e books on the reading list	before I attended the lecture.	
	(a) had read	(b) have read	(c) would have read	(d) would read
96.	Bala Chandra	school before. The	desire to become a famous ne	ovelist led him to attend the adult
	literacy classes.			
	(a) never attends	(b) was never attentive	(c) had never attended	(d) will be attending
97.	I set the alarm for 6.30	in the morning I we	ouldn't miss the train.	
	(a) in case	(b) unless	(c) until	(d) so that





Direction (Questions 98-100)

Select the word which means the opposite of the underlined word.

98. The activities of the cine club will conclude early next year owing to the volume of work that has kept its members occupied.

	(a) continue	(b) commence	(c) comprehend	(d) conduct			
99.	The town is unique in its appearance.						
	(a) picturesque	(b) singular	(c) drab	(d) typical			
100. Mr. Prakash was candid at a history TV promotional in Mumbai recently.							

(a) fickle (b) forthright (c) unapologetic (d) guarded

SPACE FOR ROUGH WORK



{ SEA	TA	LENT 2017	4				(CLASS-X
6.	You	find a herbaceous flowering	plan	t growing in your schoo	ol gar	den having leaves with	para	allel venation. Choose
	the co	prrect additional features the	e give	en plant would be posses	ssing			
	(I)	It has no secondary vascula	ar tis	sues.	(II)	Its flower possesses the	nree s	sepals.
	(III)	It possesses tap root.			(IV)) Its embryo has 2 coty	ledor	18.
	(a)	(I) and (II)	(b)	(I) and (III)	(c)	(II) and (IV)	(d) ((III) and (IV)
7.	Varie	ties of vegetables such as ca	abba	ge, broccoli and cauliflo	wer l	nave been produced fro	om a	wild cabbage species.
	Such	process of producing new v	ariet	ies of living organisms i	s cal	led.		
	(a)	Natural selection	(b)	Artificial selection	(c)	Speciation	(d)	Genetic drift
8.	Whic	h of the following are pairs	of ar	nalogous organs?				
	(I) Forelimbs of horse – Wings of bat			(II)	Wings of bat – Wings	of b	utterfly	
	(III) Forelimbs of horse – Wings of butterfly			(IV)) Wings of bird – Wing	s of	bat	
	(a)	(I) and (II)	(b)	(II) and (IV)	(c)	(III) and (IV)	(d)	(II) and (III)
9.	Whic	h of the following organism	s is ı	used as a biopesticide?				
	(a)	Azolla	(b)	Anabaena	(c)	Rhizobium	(d)	Trichoderma
10.	A tal	plant (TT) is crossed with a	a dw	arf plant (tt). All F1 plan	nts sh	owed tall phenotype.		
	Whic	h of the following correctly	defi	nes test cross?				
	(a)	$TT(F_1) \times Tt(P)$	(b)	$Tt(F_1) \times Tt(P)$	(c)	$tt(F_1) \times Tt(P)$	(d)	$Tt(F_1) \times tt(P)$
11.	Whic	h one of the following pairs	of c	ausative agent and type	of dis	sease are correct?		
	(I)	Leishmania – Sleeping sich	knes	5	(II)	Nematode – Elephant	iasis	
	(III)	Trypanosoma – Kala azar			(IV)) Staphylococcus - Acn	e	
	(a)	(I) and (II)	(b)	(II) and (III)	(c)	(II) and (IV)	(d)	(III) and (IV)
12.	Panci	reatic juice contains more th	an o	ne enzyme. which amon	g the	following combination	n is c	orrect?
	(a)	Pepsin and Lipase			(b)	Amylase and Pepsin		
	(c)	Pepsin and Trypsin			(d)	Trypsin and Lipase		

{ SEA	TA	LENT 2017 EXAM	4				I	CLASS-X
13.	You	discover a new species of a	plar	t. You also discover that	t it p	produces motile sperms	s and	dominant generation
	has d	iploid cells. It belongs to						
	(a)	Bryophyte	(b)	Angiosperm	(c)	Gymnosperm	(d)	Pteridophyte
14.	At ev starts	ery 20 minutes, one bacteri with 10 bacteria?	um o	livides into two. How m	any	bacteria will be produc	ced a	fter two hours, if one
	(a)	$2^{5} \times 10$	(b)	$2^{5} \times 10^{5}$	(c)	$2^{6} \times 10$	(d)	$2^{6} \times 10^{6}$
15.	The r	netal (M) forms an oxide, M	1 ₂ O ₃ .	The formula of its nitric	le wi	ll be		
	(a)	M_2N_3	(b)	MN	(c)	M_2N	(d)	M_3N_2
16.	A sol	ution is a homogeneous mix	ture	of two or more substanc	es. V	Which of the following	is a s	solution?
	(a)	Milk	(b)	Smoke	(c)	Brass	(d)	Face Cream
17.	1.80	g of glucose is dissolved in	36.00) g of water in a beaker.	The	total number of oxyger	n ator	ms in the solution is
	(a)	12.405×10^{23}	(b)	12.405×10^{22}	(c)	6.022×10^{23}	(d)	6.022×10^{22}
18.	³⁵ Cl	and ³⁷ Cl are the two isotop	es of	chlorine, in the ratio: 3	: 1	respectively. If the isc	otope	ratio is reversed, the
	avera	ge atomic mass of chlorine	will	be -				
	(a)	35.0 u	(b)	35.5 u	(c)	36.0 u	(d)	36.5 u
19.	The t	urmeric solution will turn re	ed by	an aqueous solution of-				
	(a)	potassium acetate	(b)	copper sulphate	(c)	sodium sulphate	(d)	ferric chloride
20.	A me	tal 'M' of moderate reacti	vity	is present as its sulphid	e 'X	. On heating in air, '	X' c	onverts into its oxide
	'Y'ar	nd a gas evolves. On heating	ς 'Υ'	and 'X' together, the me	tal '	M' is produced. 'X' an	d 'Y	'respectively are -
	(a)	'X' = cuprous sulphide, 'Y	'' = c	cuprous oxide				
	(b)	'X' = cupric sulphide, 'Y'	= cu	pric oxide				
	(c)	'X' = sodium sulphide, 'Y	' = s	odium oxide				
	(d)	'X' = calcium sulphide, 'Y	/' = c	ealcium oxide				



- (a) Graphite is smooth and slippery.
- (b) Diamond is good conductor of heat
- (c) Graphite is a good conductor of electricity
- (d) Physical and chemical properties of graphite and diamond are different.
- 22. The functional groups present in the following compound are
 - (a) alcohol, ketone and ester
 - (b) ester and carboxylic acid
 - (c) carboxylic acid and ketone
 - (d) ester and alcohol
- 23. A part of the modern periodic table is presented below in which the alphabets represent the symbols of elements.

Table						
Group → Period ↓	1	2	14	15	16	17
2	19			М	Q	
3	A	J			R	
4	Е		L			Т
5	G					Х

Consult the above part of the periodic table to predict which of the following is a covalent compound.

- (a) RQ_2 (b) AT (c) JQ (d) JX_2
- 24. A compound 'X' reacts with a compound 'Y', to produce a colourless and odourless gas. The gas turns lime water milky. when 'X' reacts with methanol in the presences of concentrated H₂SO₄, a sweet smelling substance is produced. The molecular formula of the compound 'X' is -
 - (a) C_2H_4O (b) $C_2H_4O_2$ (c) C_2H_6O (d) $C_2H_6O_2$

SPACE FOR ROUGH WORK





28. The velocity – time graph of an object moving along a straight line is shown below:



Which one of the following graphs represents the acceleration (a) time (t) graph for the above motion?



29. To read a poster on a wall, a person with defective vision needs to stand at a distance of 0.4m from the poster. A person with normal vision can read the poster from a distance of 2.0 m. which one of the following lens may be used to correct the defective vision?

- (a) A concave lens of 0.5 D
- (c) A concave lens of 2.0 D

- (b) A concave lens of 1.0 D
- (d) A convex lens of 2.0 D

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30. A ball released from rest at time t = 0 his the ground. It rebounds inelastically with a velocity 5 m s⁻¹ and reaches the top at t = 1.5 s, What is the net displacement of the ball from its initial position after 1.5s? ($g = 10 \text{ m/s}^{-2}$)





- (c) 500 g 200 g (b) 300 g (d) 800 g (a) 34. An object falls a distance H in 50 s when dropped on the surface of the earth. How long would it take for the same object to fall through the same distance on the surface of a planet whose mass and radius are twice that of the earth? (Neglect air resistance.) (b) 50.0 s (c) 70.7 s (d) 100.0 s (a) 35.4 g A source produces sound waves under water. waves travel through water and then into air. which of the following 35. statements about the frequency (f) and the wavelength (λ) is correct and sound passes from water to air? (b) f remains unchanged but λ increases. f remains unchanged by λ decreases. (a) (d) λ remains unchanged but f increases. (c) λ remains unchanged but f decreases.
- **36.** The diameter of a wire is reduced to one fifth of its original value by stretching it. if its initial resistance is R, what would be its resistance after reduction of the diameter?
 - (a) $\frac{R}{625}$ (b) $\frac{R}{25}$ (c) 25 R (d) 625 R



- (a) The kinetic energies before and after collision are same.
- (b) The kinetic energy after collision is $\frac{1}{2}(M+m)u^2$
- (c) There will be a loss of kinetic energy equal to $\frac{1}{2} \frac{m^2 u^2}{(M+m)}$
- (d) There will be a loss of kinetic energy equal to $\frac{1}{2} \frac{m^2 u^2}{(M+m)} u^2$
- **38.** A vessel is filled with oil as shown in the diagram. A ray of light from point O at the bottom of vessel is incident on the oil-air intergace at point P and grazes the surface along PQ. The refractive index of the oil is close to –



- **39.** A charged particle placed in an electric field falls from rest through a distance d in time t. If the charge on the particle is doubled, the time of fall through the same distance will be
 - (a) 2t (b) t (c) $\frac{t}{\sqrt{2}}$ (d) $\frac{t}{2}$

1.41

(a)

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40.	AB is	s a long wire carrying a curr	cent I ₁ , and PQRS is rectangul	ar loop carrying current I_2	(as shown in the figure).						
			$\begin{bmatrix} B \\ Q \\ I_2 \\ P \\ A \end{bmatrix}$	R S							
	Which among the following statements are correct?										
	(1) Arm PQ will get attracted to wire AB, and the arm RS will get repelled from wire AB.										
	(2) Arm PQ will get repelled from wire AB and arm RS attracted to weir AB.										
	(3) Forces on the arms PQ and RS will be unequal and opposite.										
	(4)	Forces on the arms QR and	d SP will be zero.								
	(a)	only (1)	(b) (2) and (3)	(c) (1) and (3)	(d) (2) and (4)						
41.	The s	sum of all the possible rema	ainders, which can be obtaine	d when the cube of a natur	al number is divided by 9,						
	is										
	(a)	5	(b) 6	(c) 8	(d) 9						
42.	When	n a polynomial p(x) is divid	led by $x - 1$, the remainder is	3. When $p(x)$ is divided	by $x-3$, the remainder is						
	5. If	r(x) is the remainder when	p(x) is divided by $(x-1)(x)$	-3), then the value of r(-	2) is						
	(a)	-2	(b) -1	(c) 0	(d) 4						
43.	For v	vhat value of p, the followin	ng pair of linear equations in t	wo variables will have infi	nitely many solutions?						
	px +	3y - (p - 3) = 0									
	12x -	+ py - p = 0									
	(a)	6	(b) -6	(c) 0	(d) 2						

E SEA	TA	LENT 2017 EXAM					(CLASS-X
44.	Two	quadratic equations $x^2 - b$	ox + 6	$= 0$ and $x^2 - 6x + c = 0$	hav	re a common root. If t	the re	emaining roots of the
	first a	and second equations are po	sitive	integers and are in the	ration	n 3 : 4 respectively, the	n the	e common root is
	(a)	1	(b)	2	(c)	3	(d)	4
45.	First	term of an arithmetic progr	ression	n is 2. If the sum of its	first	five terms is equal to	one -	- fourth of the sum of
	the ne	ext five terms, then the sum	of its	first 30 terms is				
	(a)	2670	(b)	2610	(c)	-2520	(d)	-2550
46.	A cir	cle C is drawn inside a squa	are S s	so that the four sides of	S are	tangents to C. An equ	ilateı	al triangle T is drawn
	indid	e C with its vertices on C. I	f the a	area of S is K times the a	are of	f T, then the value of k	is	
	(a)	$\frac{16}{3\sqrt{3}}$	(b)	$\frac{16}{\sqrt{3}}$	(c)	$\frac{32}{3\sqrt{3}}$	(d)	$\frac{32}{\sqrt{3}}$
47.	Let A	P be a diameter of a circle	of ra	dius r and PT be the tar	ngent	to the circle at the point	int P	such that the line AT
	inters	ects the circle at B. If $PT =$	8 uni	ts and $BT = 4$ units, then	n r is	equal to		
	(a)	$4\sqrt{3}$ units	(b)	4 units	(c)	$\frac{4}{\sqrt{3}}$ units	(d)	$2\sqrt{3}$ units
48.	If the	quadratic equation $x^2 + bx$	x + 72	= 0 has two distinct int	teger	roots, then the number	r of a	ll possible value for b
	is -							
	(a)	12	(b)	9	(c)	15	(d)	18
49.	If the	area of a square inscribed	in a s	semicircle is 2cm ² , then	the a	area of the square insc	ribed	in a full circle of the
	same	radius is -						
	(a)	5 cm^2	(b)	10 cm^2	(c)	$5\sqrt{2}$ cm ²	(d)	25 cm^2
50.	If the	discriminants of two quad	lratic	equations are equal and	l the	equations have a com	mon	root 1, then the other
	roots	-						
	(a)	are either equal or their su	m is 2	2	(b)	have to be always equ	ıal	
	(c)	are either equal or their su	m is 1	l	(d)	have their sum equal	to 1	

{ SEA	TA RCH	LENT 2017					(CLASS-X	
51.	Thre	e circular wires are attached	l in se	ries such that, if one win	e is 1	rotated, other two also	get r	otated. If the diameter	
	of a	wire is 4/5 time that of imr	media	te left wire and the left	mos	st wire rotates at the sp	peed	of 32 revolutions per	
	minute, then the number of revolutions made by right most wire per minute will be -								
	(a)	40	(b)	49	(c)	50	(d)	60	
52.	Let A	ABC be an equilateral triang	gle. If	the co-ordinates of A ar	e (1,	2) and Co – ordinates	of B	are (2, -1), then -	
	(a)	C cannot lie in the first qu	adrar	ıt	(b)	C cannot lie in the sec	cond	quadrant	
	(c)	C is the origin			(d)	C cannot lie in the thi	rd qu	adrant	
53.	Shya	m wants to make a solid bri	ick sł	hape structure from 400	wood	len cubes of unit volur	ne ea	ch. If the sides of the	
	solid brick have the ratio 1:2:3, then the maximum number of cubes, which can be used, will be -							ll be -	
	(a)	400	(b)	288	(c)	300	(d)	384	
54.	Posit	ive integers from 1 to 21	are a	rranged in 3 groups of	7 in	tegers each, in some	parti	cular order. Then the	
	highe	est possible mean of the mea	dians	of these 3 groups is -					
	(a)	16	(b)	12.5	(c)	11	(d)	14	
55.	On d digits	ividing 2272 as well as 875 s of N is -	5 by a	a 3-digit number N, we	get t	he same remainder in	each	case. The sum of the	
	(a)	10	(b)	11	(c)	12	(d)	13	
56.	5. A line <i>l</i> passing through the origin makes an angle θ with positive direction of x-axis such that $\sin \theta = \frac{3}{5}$. The co- ordinates of the point, which lies in the fourth quadrant at a unit distance from the origin and on perpendicular to <i>l</i> , are								
	(a)	$\left(\frac{3}{5},-\frac{4}{5}\right)$	(b)	$\left(\frac{4}{5}, -\frac{3}{5}\right)$	(c)	(3,-4)	(d)	(4,-3)	
57.	The	value (s) of k for which x^2 -	+ 5kx	$k + k^2 + 5$ is exactly divi	sible	by $x + 2$ but not by x	+ 3 is	s (are)	
	(a)	1	(b)	5	(c)	1,9	(d)	9	

{ SEA	TA	JAY: LENT 2017 EXAM					I	CLASS-X
58.	If co	$bs^4 \theta + sin^2 \theta = m$, then –						
	(a)	$1 \le m \le 2$	(b)	$\frac{1}{2} \le m \le 1$	(c)	$\frac{3}{4} \le m \le 1$	(d)	$\frac{3}{4} \le m \le \frac{13}{16}$
59.	Cost	of 2 apples, 3 bananas and	one c	oconut is Rs. 26. Also t	he co	ost of 3 apples, 2 banar	nas ar	nd two coconuts is Rs.
	35. T	hen the cost of 12 apples, 1	3 ban	anas and 7 coconuts is	-			
	(a)	Rs. 172	(b)	Rs. 148	(c)	Rs. 143	(d)	Rs. 126
60.	ABC	is a field in the form of an	n equi	ilateral triangle. Two ve	ertica	l poles of heights 45m	n and	20m are erected at A
	and H	B respectively. The angles	of ele	vation of the tops of th	e two	poles from C are con	npler	mentary to each other.
	There	e is a point D on AB such t	hat fr	om it, the angles of elev	vatior	n of the tops of the two	o pole	es are equal. Then AD
	is equ	ual to -						
	(a)	$17\frac{5}{12}$ m	(b)	$20\frac{10}{13}\mathrm{m}$	(c)	$20\frac{5}{13}m$	(d)	$17\frac{10}{12}$ m
61.	Arrai	nge the developments relate	d to I	European history in a ch	rono	logical sequence.		
	I.	Napoleon invaded Italy.			II.	Unification of Italy.		
	III.	Unification of Germany.			IV.	Vienna Settlement.		
	(a)	I,III, II and IV	(b)	I, II, IV and III	(c)	I, IV, II and III	(d)	I, II, III and IV
62.	Whic	ch of the following statemen	nts ab	out Liberals in 19 th cent	ury E	Surope are correct?		
	I.	They favoured the Cathol	ic Ch	urch.				
	II.	They opposed dynastic ru	le wit	h unlimited power.				
	III.	They were democrats.						
	IV.	They did not want any vo	ting ri	ghts for women.				
	(a)	I, II and III	(b)	I, II and IV	(c)	II and IV	(d)	III and IV
63.	Whic	ch of the following statemen	nts are	e correct?				
	I.	In the beginning Bombay	was ı	under the Portuguese co	ntrol.			
	II.	Control of Bombay passed	d onto	the French in the 17 th c	entu	ry.		
	III.	The Marathas replaced the	e Frer	ich in Bombay.				
	IV.	Bombay became the capit	alof	the presidency in early	$19^{th} c$	entury.		
	(a)	I, II and IV	(b)	I and IV	(c)	I, II and III	(d)	II, III and IV

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64.	Which of t	he following statements are correct?									
	I. The	The Chinese introduced printing.									
	II. The	The Buddhist missionaries introduced printing in Japan.									
	III. The	The Chinese developed printing to facilitate their expanding trade.									
	IV. Print	7. Printing reached Europe through Italy.									
	(a) I, II	and III (b) I, II, and IV (c) II, III and IV (d) I and IV									
	Direction (Questions 65 – 72)										
	Read the statements are select the correct answer from the options given below.										
	1. Statement I is true, Statement II is false.										
	2. State	2. Statement I is false, Statement II is true.									
	3. Both	3. Both Statements are true, and statement II provides explanation to Statement I.									
	4. Both	Statements are true, but statement II does not provide explanation of Statement I.									
65.	Statement	I : During the years of the Great Depression the economic crisis was worse in Germany.									
	Statement	II : The President of the Weimar Republic had the power to impose emergency.									
66.	Statement Statement	I : The Forest Act of 1878 categorized some forests as 'reserved forests'.II : They were considered the best forests for people's use.									
67.	Statement	I : Shifting cultivation was widely prevalent in different parts of Indian in the 19 th century.									
	Statement	II : More and more people took to shifting cultivation when forest laws were enacted.									
68.	Statement	I : Cricket emerged as a colonial game.									
	Statement	II : Cricket was started in England.									
69.	Statement	I : Mahatma Gandhi wished everyone had clothes to wear.									

Statement II : He wanted everyone to wear the single loin cloth as he did.

SPACE FOR ROUGH WORK

{® SEA	TAI	ENT 2017	CLASS-X								
70.	State	ment I : The Spanish conquest of America wa	as not a conventional military conquest.								
	State	ment II : One of the most powerful weapon wa	as the spread of smallpox.								
71.	State	ment I : The silk routes lead to trade and cult	ural links between distant parts of the world.								
	State	ment II : Early Christian missionaries travelled	d to Asia through this route.								
72.	Statement I : The French used forced labour in Indo-china for building canals.										
	State	ment II : Vietnam became a major exporter of	rice in the world.								
73.	Match List I (Layers of Atmosphere and List II (Characteristics) and select the correct answer using the code given										
	below	<i>.</i>									
		List I (Layer of Atmosphere)	List II (Characteristics)								
	(a)	Ionosphere	(I) Contains Ozone								
	(b)	Stratosphere	(II) Reflects radio waves								
	(c)	Exosphere	(III) Fall in Temperature								
	(d)	Troposphere	(IV) Extremely low air density								
	(a)	A-II, B-III, C-IV, D-I	(b) $A - II, B - I, C - IV, D - III$								
	(c)	A - II, B - III, C - I, D - IV	(d) $A - III, B - I, C - IV, D - II$								
74.	Whic	h of the following statements are correct?									
	I.	Rann of Kachchh is formed by the recession of	f the sea.								
	II. Kuchaman, Sambhar and Didwana are salt water lakes.										
	III.	The land of the east of Aravallis is known as B	agar.								
	IV.	the fertile flood plains formed by small stream	s in Rajasthan are known as Rohi.								
	(a)	I, II and IV (b) I, III and IV	(c) II, III and IV (d) I, II, III and IV								

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77. Match List I (Original Rock) with List II (Metamorphic Rock) and select the correct answer using the code given below:

List I (Original Rock)

2017

- (a) Granite
- (b) Coal
- (c) Limestone
- (d) Shale
- $(a) \qquad A-III, B-IV, C-II, D-I$
- (c) A IV, B II, C I, D III
- **78.** Observe the given map.

List II (Metamorphic Rock)

CLASS-X

- (I) Diamond
- (II) Marble
- (III) Slate
- (IV) Gneiss
- (b) A III, B II, C IV, D I
- (d) A IV, B I, C II, D III



Which one of the following statement is NOT true about the shaded state indicated on the map?

- (a) Society predomintly follows right of female ultimogeniture
- (b) The state is an example of areas with karst topography
- (c) the state is a major producer of potatoes in India
- (d) Some parts of the state receive extremely high rainfall

SPACE FOR ROUGH WORK

79. Match List I (Mineral Oil Refineries) with List II (States) and select the correct answer using the code given below:

	List I (Mineral Oil Refineries)	List II States)
(a)	Numaligarh	(I) Punjab
(b)	Bathinda	(II) Andhra Pradesh
(c)	Tatipaka	(III) Madhya Pradesh
(d)	Bina	(IV) Assam
(a)	A - IV, B - II, C - III, D - I	(b) $A - IV, B - I, C - II, D - III$
(c)	A - II, B - I, C - IV, D - III	(d) $A - IV, B - III, C - II, D - I$

80. 'Slash and Burn Agriculture' is known by specific name in different states of India. Match the shaded states marked in the given map with codes given in the table (Different names of slash and Burn Agriculture) and select the correct answer using the code given below.



SPACE FOR ROUGH WORK

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{ SEA	CLASS-X									
81.	Mate	h list I (Industries) with List	II (I	mportant Centers) and	select	the correct answer usi	ng the code given below:			
		List (Industries)				List II (Important C	Centers)			
	A.	Cotton textile			(I)	Ludhiana				
	B.	Hosiery			(II)	Rishra				
	C.	Jute			(III)) Coimbatore				
	D. Silk textile				(IV) Mysuru					
	(a) $A-I, B-III, C-IV, D-II$				(b)	A – IV, B – I, C – II, D – III				
	(c)	A – III, B – II, C – I, D – IV	1		(d)	A - IV, B - I, C - II, I	D–IV			
82.	Whic	h one of the following islar	nd is	closest to the equator?						
	(a)	Minicoy	(b)	Car Nicobar	(c)	Little Nicobar	(d) Great Nicobar			
83.	Whic	h of the following character	istic	s are true about plantati	on ag	riculture?				
	I.	Generally plantation agrice	ultur	e is considered as an ex	ample	of subsistence farmin	g.			
	II.	Generally single crop is gr	own	on a large area in plant	ation	agriculture.				
	III.	It has an interface of agrice	ultur	e and industry.						
	IV.	It uses capital intensive inp	outs.							
	(a)	I and IV	(b)	III and IV	(c)	I, II and III	(d) II, III and IV			
84.	Mate	h List I (Vegetation zones)	with	List II (Mean Annual T	`empe	rature Range) and sele	et the correct answer using			
	the co	ode given below:								
		List I (Vegetation Zones)			List	t II (Mean Annual Te	emperature Range)			
	A.	Alpine			(I)	Above 24°C				
	В.	Temperate			(II)	17° to 24 °C				
	C.	Tropical			(III)) Below 7°C				
	D.	Sub – tropical			(IV)) 7°C to 17°C				
	(a)	A – III, B – I, C – II, D – IV	1		(b)	A - III, B - I, C - IV,	D – II			
	(c)	A – III, B – IV, C – I, D – I	Ι		(d)	A – I, B – II, C – III, I	D-IV			

{ SEA	TA	JAY: LENT 2017				CLASS-X			
85.	'In a	democracy, the will of the peo	ple is supreme.' Which	ı of tł	ne following statement	conceming democracy in			
	India	best reflects this?							
	(a)	The President appoints the Prir	ne Minister who is the l	eader	of the political party p	ossessing a majority in			
	the Lok Sabha.								
	(b) An assembly of elected representatives exercises political authority on behalf of the people.								
	(c)	In case of a difference between	the two Houses of Parl	iamer	nt, the final decision is	taken in a joint session			
	of the two Houses.								
	(d)	The permanent executive has n	nore powers than the po	litical	execuitive.				
86.	Whic	ch of the following statements a	about the Panchayati Ra	aj Ins	stitutions after the Con	stitutional Amendment in			
	1992	are false?							
	I.	Seats are reserved for the Sche	duled Castes, Scheduled	1 Trib	es, and Other Backwar	d Classes in the elected			
	bodie	es of the Panchayati Raj Institution	ons.						
	II.	Elections to the Panchayati Raj	Institutions are supervi	sed b	y the Election Commis	sion of India.			
	III.	Elections to the Panchayati Raj	Institutions are held rea	gularl	y after every five years	3.			
	IV.	Half of the seats in all the state	s are reserved for wome	en.					
	(a)	I and III (b)	I and II	(c)	III and IV	(d) II and IV			
87.	Mate	h List I(Political Systems) with	List II (Nations) and sel	ect th	e correct answer using	the code given below:			
		List I (Political Systems)			List II (Nations)				
	А.	Federal, Presidential, Republic		(I)	India				
	B.	Federal, Parliamentary, Republ	lic	(II)	United Kingdom				
	C.	Unitary, Parliamentary, Monar	chy	(III)) Germany				
	D.	Presidential cum Parliamentary	, Republic	(IV)) United States of Ame	rica			
				(V)	France				
	(a)	A - IV, B - I, C - II, D - V		(b)	A – IV, B – I, C – II, I	D – III			
	(c)	A – V, B – IV, C – II, D – III		(d)	A - V, B - II, C - III,	D-IV			



- 88. Which of the following statements about the federal system in India are true?
 - I. The Constitution of India provides for a three-fold distribution of legislative power between the Union and the State Government.
 - II. Both the Union and the State Government can legislate on residuary subjects.
 - III. The Parliament cannot on its own change the power sharing arrangement between the Union and the State Governments.
 - IV. The High Courts have no role in resolving disputes about the division of powers between the Union and the State Governments.
 - (a) I and III (b) II, III and IV (c) I, III and IV (d) I, II and IV
- 89. Which of the following group of States / Union Territories have only one Lok Sabha Constituency?
 - (a) Arunachal Pradesh, Sikkim,
 - (b) Goa, Meghalaya, Andaman and Nicobar Islands.
 - (c) Chandigarh, Sikkim, Mizoram
 - (d) Manipur, Dadra and Nagar Haveli, Puducherry
- 90. Which of the following statements best reflects the 'socialist' feature of the Preamble to the Constitution of India?
 - (a) There are no unreasonable restriction on how the citizens express their thoughts
 - (b) The traditional social inequalities have to be abolished
 - (c) Government should regulate the owner ship of land and industry to reduce socio economic inequalities
 - (d) No one should treat a fellow citizen as inferior
- 91. Which of the following statements about the Indian judiciary is true?
 - (a) India has an integrated judiciary
 - (b) The Judiciary in India is subordinate of the Executive
 - (c) The Supreme Court is more powerful than Parliament
 - (d) The Chief Justice of India appointed by the Prime Minister

{ SEA	TA	LENT 2017 EXAM					CLASS-X						
92.	Which of the following Fundamental Rights includes the Right to Education?												
	(a)	Right to Equality			(b)								
	(c)	Cultural and Educational I	Rights		(d)	Right to Constitution	al Remedies						
93.	Whic	h of the following is NOT a	nent?										
	(a)	Increased per capita incon	ne	((b) Dec	reased infant mortality	1						
	(c)	Increased life expectancy	at birth	(d) Dec	oation in job market							
94.	The p	poverty line in Dinanagar is	set at Rs. 100 per	capita	a per day.	Five Hundred people	live in Dinanagar of whom						
	50 earn Rs. 30 per capita per day and another 25 earn Rs. 80 per capita per day each. Everybody else earn mor												
	than Rs. 100 per day capita. What is the minimum amount that the government of Dinanagar will have to spend the												
	comp	letely eradicate poverty?											
	(a)	Rs. 3000	(b) Rs. 3500		(c)	Rs. 4000	(d) Rs. 4500						
95.	The l	ocal telephone company set	lls me a landline co	onnec [°]	tion only i	f I Purchase a handset	from them as well. Which						
	of the following rights does this practice violate under the Consumer Protection Act 1986?												
	(a)	Right to represent		(d) Right to seek redressel									
96	(C) Mate	h List (Type of Uperploy	ment) with List II	(d) regin to seek redressar									
<i>J</i> 0 .	oiver	h Else (Type of Onemploy	ment) with List II	(Cila		s) and select the corre	et answer using the codes						
	giver	List – I (Type of Unemp	oloyment)			List – II (Characte	ristics)						
	A.	Seasonal		Ι	Occurs d	uring boom or recession	on in the economy						
	B.	Frictional		II	An abser	nce of demand for a ce	rtain type of workers						
	C.	Disguised		III	Occurs w	when moving from one	job to another						
	D.	Structural		IV	Actual co	ontribution by the addi	tional labour is nil						
	E.	Cyclical		V	Job oppo	rtunities during certain	n months in the year						
	(a)	A – V, B – III, C – IV, D –	II, E – I		(b)	A – IV, B – V, C – III	l, D – I, E – II						
	(c)	A – I, B – II, C – III, D – I	V, E – V		(d)	A – V, B – IV, C – III	I, D – II, E – I						

{ SEA	TA	JAY. L ent Exam	2017					CLASS-X					
97.	Supp	ose India	n Famers sell whe	at at I	Rs. 50 per kg and the	internat	ional price of wheat is	s Rs. 40 per kg. What is the					
	minimum rate of import duty Government of India must impose on imported wheat so that it does not adverse												
	affect India farmers in the domestic market?												
	(a)	10%		(b)	20%	(c)	25%	(d) 30%					
98.	The v	vage of w	vorker in a country	is Rs	. 300 per day. Which	n of thes	e person (s) would you	a consider unem-ployed?					
	(1) Ramu is willing to work at Rs. 300 a day, but cannot find work.												
	(2) Suresh is willing to work only at Rs. 400 a day or more, and cannot find work.												
	(3) Shanti stays at home because she has young children to look after.												
	(a)	Ramu		(b)	Suresh	(c)	Ramu and Suresh	(d) Ramu and Shanti					
99.	Whic	h of the f	following can be u	sed as	s collateral in Indian l	banks to	borrow money?						
	(a)	Bank Pa	issbook	(b)	Credit Card	(c)	Own House	(d) Passport					
100.	The 1	otal agri	cultural land in a	villag	ge is 1200 hectares.	This is	distributed among 32	20 families who form four					
	group	os in the	following pattern.	It is	assumed that the lar	nd is dis	tributed equally with	in each group. Identify the					
	group	of small	farmers.										
	Grou	ıp	Number of Fam	ilies	Total amount of la	and own	ned						
					and operated by e	ach gro	սթ						
					(in hectares)								
	А		100		300								
	В		180		300								
	С		30		300								
	D		10		300								
	(a)	А		(b)	В	(c)	c	(d) D					

{ SEA	TALE RCH E	NT 2	201	7			1		/		7	CL	A 59	5-X
						AN	SWEF	R KEY						
					(, LC1	Γ, SA	T)					
							MA [.]	Т						
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
С	В	В	Α	D	С	Α	В	В	С	В	В	С	С	В
16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
С	С	С	В	С	D	С	В	Α	С	D	С	С	С	Α
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.	41.	42.	43.	44.	45.
D	С	С	Α	С	Α	С	В	С	D	В	Α	Α	Α	D
46.	47.	48.	49.	50.										
Α	D	D	D	Α										
							LC	Г						
51.	52.	53.	54.	5	5.	56.	57.	58.	59.	60.	61.	62	2.	63.
С	В	D	С	C		Α	В	Α	D	В	В	С		Α
64.	65.	66.	67.	6	8.	69.	70.	71.	72.	73.	74.	75	5.	76.
D	С	Α	С	C	>	D	D	В	Α	С	В	Α		Α
77.	78.	79.	80.	8	81.	82.	83.	84.	85.	86.	87.	88	B	89.
В	С	В	С	F	4	Α	В	В	С	В	Α	D		В
90.	91.	92.	93.	9	94.	95.	96.	97.	98.	99.	100).		
D	В	D	Α	E	3	Α	С	D	В	D	D			

{ SEA			201	7							/	CLASS-X		
SAT														
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
D	С	C, D	Α	Α	Α	В	В	D	D	С	D	D	С	В
16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
С	Α	D	Α	Α	D	В	Α	В	D	В	С	Α	С	В
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.	41.	42.	43.	44.	45.
В	В	С	С	Α	D	D	D	С	С	D	С	Α	В	D
46.	47.	48.	49.	50.	51.	52.	53.	54.	55.	56.	57.	58.	59.	60.
A	Α	Α	Α	Α	С	В	D	D	Α	Α	D	С	В	В
61.	62.	63.	64.	65.	66.	67.	68.	69.	70.	71.	72.	73.	74.	75.
С	С	В	В	D	Α	Α	С	Α	С	С	D	В	Α	В
76.	77.	78.	79.	80.	81.	82.	83.	84.	85.	86.	87.	88.	89.	90.
A	D	С	В	D	D	D	D	С	В	D	Α	С	С	С
91.	92.	93.	94.	95.	96.	97.	98.	99.	100.					
A	В	D	С	С	Α	С	Α	С	В					