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OL/2018/32/E-I -2-Part A Answer all questions on this question paper itself. • Area of the curved surface of a right circular cylinder of radius r and height h is $2\pi rh$. Wherever necessary, use $\frac{22}{7}$ for the value of π . 1. It has been estimated that it will take 10 men 6 days to complete a certain task. Find the number of days it will take 8 men to complete a job which is double that task. Factorize: $2x^2 + x - 6$ 2. 3. Find the value of x based on the information given in the figure. 80 3xIn the figure, ABCD is a square; BCE is a sector. Find 4. D. .7 cm the perimeter of the composite figure. B E Simplify: $\frac{4}{x} - \frac{1}{2x}$ 5. In the figure, ABC is a straight line. Find the magnitude of $D\hat{A}B$ based on the given information. 6. B $26.3 = 10^{1.42}$. 7. What is the value of lg 26.3? [see page three

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8.	A rectangular sheet of paper of area 880 cm^2 has been pasted such that it exactly covers the curved surface of a solid right circular cylinder of base radius 14 cm. Find the height of the cylinder.
9.	A, B, C and D are 4 points on the circle. Find the magnitude
	of DEC based on the given information.
	40 E
	H15°
	A B
0.	Solve: $x^2 - 36 = 0$
2.	Fill in the blanks using suitable words.
	The opposite of a parallelogram are equal. The
	of a parallelogram is biggeted by each of its diagonals
	or a parametogram is disected by each of its diagonals.
	and the second sec
3.	Find the probability of getting either a multiple of 2 or a multiple of 3 when a fair die with its sides numbered from 1 to 6 is rolled.
4	The diameter of the circle shown in the figure is PO Find
	the value of x based on the given information.
	1109
	x°
	P[$]Q$
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	Find the income tax that a person who earns an annual			
	table	Annual income	Tax percentage	
		Initial Rs. 500 000	Tax free	
		Next Rs. 500 000	4%	
		Next Rs. 500 000	8%	
16.	A composite figure consisting of a semicircle of radius 7	cm and		
	a mangle is shown here, that he were of the entire home			
		\backslash	7 cm	
			$\langle \rangle$	
17.	Find the value of x based on the information given in th	e figure.	٨	
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			11	
			1000	
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OL/2018/32/E-I - 5 -21. Write the 7th term of the geometric progression with first term 8 and common ratio 2, as a power of 2. Find the gradient of the straight line that passes through the points (0, 8) and (2, 4). 22. 23. The first quartile of an array of data that has been arranged in ascending order is in the 7th position. How many data are there in this array? Simplify: $\frac{3a}{10b} \div \frac{9}{5b}$ 24. 25. In the given figure, ABCE is a parallelogram. The 4 points A, B, C and D lie on the circle. Find the magnitude of $E\hat{C}D$ based on the given information.

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L/2018/32/E-I – 7 –	
(a) Customs duty of 30% is charged when electrical be paid as customs duty when an item of this t item which is being imported?	items are imported. If 9000 rupees has to type is imported, what is the value of the
(b) (i) The annual assessed value of a house is 3000 annual rates of 8% on this property, find how	00 rupees. If the municipal council charger much has to be paid as rates for a quarter
(ii) After several years, the assessed value of the l that the municipal council charges also increarates for a quarter increased by 30 rupees as a of the house.	house changed. The annual rates percentage ased to 9%. If the amount to be paid as a result, find the new annual assessed value
(a) A bag contains 3 vanilla flavoured milk packets a the same size. After Kamala takes out a milk pack packet randomly.	and 2 chocolate flavoured milk packets of ket randomly, Nimala also takes out a milk
(i) Using the symbol 'x', represent the sample space of the above experiment in the given grid. The vanilla flavoured milk packets are denoted by V_1 , V_2 and V_3 and the chocolate flavoured milk packets are denoted by C_1 and C_2 .	$V_{3} = \frac{C_{1}}{C_{1}}$
	V2
	V_1 V_2 V_3 C_1 C_2 Kamala's taking

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(ii) In the grid, encircle the event of both of them taking out vanilla flavoured milk packets and find its probability.

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(b)	The probability of a certain sports team	First Game	Second Game
	winning the first game they participate in		
	is $\frac{3}{5}$. If they win the first game, then the	$\frac{3}{5}$ Win	<
	probability of them winning the second game		Lose
	is $\frac{7}{10}$. If they lose the first game, then the		Win
	probability of them winning the second game	Lose	<
	is $\frac{1}{2}$. An incomplete tree diagram drawn to)	Lose
	represent this information is shown in the)	
	figure.		

(i) Complete the tree diagram by indicating the relevant probabilities.

(ii) Find the probability of the team winning at least one game.

5. Given below is a grouped frequency distribution of 48 continuous data. All the data which are greater or equal to 10 but less than 20 belong to the class interval 10-20. Likewise, the other class intervals.

Class Interval	Frequency	Cumulative frequency
10 - 20	6	6
20 - 30	8	14
30 - 40	12	26
40 - 50	15	***
50 - 60	5	
60 - 70		48

- (i) Fill in the blanks in the table.
- (ii) Draw the cumulative frequency curve on the given coordinate plane and thereby obtain the median of the frequency distribution.
- (iii) By how much does the median that was obtained in part (ii) above deviate from the midpoint of the class interval it belongs to?

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х	-1	0	1	2	3	4	5				
у	6	1 2	-2	-3	-2	7 I	6				
(i) (ii)	By cor Using to on a g	nsiderir the star raph p	ng the ndard aper	symn systen based	netry of n of axe on the	f the es an abov	quadratic d a suitat e table of	function, ble scale, d f values.	obtain the raw the gra	value of y oph of the q	when $x =$ uadratic fur
(iii)	Describ	e the	behav	iour o	f y as	the v	value of x	increases	from 0 to	2.	
(iv)	Express	s the q	luadra	tic fur	nction in	n the	form y	$= (x - a)^{2}$	$^{2} + b$.		
(v)	y = t is this str positive	is a st aight e x-coo	raight line ordina	line p and th tes?	parallel ne grap	to th h of	ne <i>x</i> -axis. the qua	What is t dratic func	he interval ction to in	l in which tersect at t	t should li two points
The runs	number scored	of fo from	urs an only	nd six fours	es the and six	winn tes w	ing team vas 176.	hit in a c	ricket mate	ch was 38.	The numb
(i) 7	Take th of simu	ne nun ultaneo	nber o us eq	of four uation	rs hit a s by us	as <i>x</i> sing	and the the above	number of e informati	sixes hit on.	as y, and	construct a
(ii)]	By solv	ving th	ne pai	r of s	simultan re hit.	ieous	equation	s, find sep	parately the	e number o	f fours and
1	lumoer	01 51	ves u	at we							
1 (iii) 1]	If the number Find the	umber e maxi	of six mum	es hit numb	by the l er of si	osing xes t	g team is a he losing	a, then it sa team may	tisfies the i have hit.	nequality 2((2a-5)+3a
(iii) I I The t side c	If the m Find the base of of the	umber e maxi a cul base is	of six mum boid s	es hit numb shaped cm. Th	by the I er of sin glass ne conta	osing xes t container	g team is a he losing ainer of is filled	a, then it sa team may height one with wate	tisfies the i have hit. metre is r to exactl	nequality 2(a square. 1 y half its 1	(2a-5)+3a The length neight.
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Part B Answer five questions only.

- 7. A decoration consists of several circles containing small bulbs. There are 5 bulbs in the first circle, 9 bulbs in the second circle, 13 bulbs in the third circle, and so on. Starting from the first circle, when the number of bulbs in each of the circles is considered in order, they are in an arithmetic progression.
 - (i) How many bulbs are there in the 10th circle?
 - (ii) If the total number of bulbs in the first *n* circles is S_n , show that $S_n = n(2n + 3)$.
 - (iii) If the decoration consists of 40 circles, find the total number of bulbs in the decoration.
 - (iv) Among the circles, starting from the 10th circle, every circle which counts as a multiple of 5 consists of only yellow bulbs while all the other bulbs are red. Find the number of red bulbs in the decoration.
- 8. Use only a straight edge with a cm/mm scale and a pair of compasses for the following constructions. Show the construction lines clearly.
 - (i) Draw a straight line segment AB of length 7.5 cm and construct its perpendicular bisector.
 - (ii) Take the midpoint of AB as C and construct a semicircle with C as the centre and AB as the diameter.
 - (iii) Construct the locus of a point that moves at an equal distance from the perpendicular bisector of AB and the line CB and name the point at which it intersects the semicircle as P.
 - (iv) Construct the tangent to the semicircle at P and name the point at which it meets the perpendicular bisector of AB as D.
 - (v) Construct the other tangent that can be drawn to the semicircle from D and give reasons why this tangent is parallel to the line PC.
- 9. In the parallelogram ABCD shown in the figure, M is the midpoint of the side AD. The point of intersection of BM and AC is R. Moreover, the lines BM and CD produced meet at Q.



Copy this figure in your answer script.

- (i) Join AQ and BD, and show that ABDQ is a parallelogram.
- (ii) Show that $\frac{MR}{RB} = \frac{1}{2}$ and that QR = 2RB.



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10.	A vertical post AB erected on a level horizontal ground and a point C located 30 m from it are shown in the figure. The angle of elevation of the top of the post B , when observed from the point C is 48°. The length of a wire tied to B from the point D located in the same direction as C from A , is 50 m.
	Copy the given figure in your answer script and include the above information in it.
	Show that the angle of elevation of B when observed from D is $D = C = A$ greater than 40°.
11.	An incomplete Venn diagram drawn to represent information on the number of students who study the subjects Economics, Business Statistics and Accounting in the A'level classes of a certain school is shown here.
	 (i) Copy the given Venn diagram in your answer script and name the sets of students who study the other two subjects suitably. Include the following information in the Venn diagram.
	 • 45 students study Accounting. • 30 students study Business Statistics.
101	• 18 students study only Economics from these three subjects. Students who study Accounting
	(ii) Shade the regions which represent the students who study only two of these three subjects.
	(iii) 55 students study at least one of the two subjects Business Statistics and Accounting. Find the number of students who study all three subjects.
	(iv) If the number of students who study only Accounting from these three subjects is twice the number of students who study Business Statistics but do not study Accounting, then find the number of students who study Economics.
12.	In the given figure, the tangent drawn to the circle with centre <i>O</i> , at the point <i>A</i> , is <i>XAY</i> . The chord <i>AB</i> bisects $X\hat{A}O$. The diameter <i>AD</i> has been produced to <i>E</i> and the point <i>C</i> lies on the circle between the points <i>B</i> and <i>D</i> . Moreover, the point of intersection of <i>AC</i> and <i>OB</i> is <i>P</i> . With reasons show that, (i) $A\hat{C}B = 45^{\circ}$ (ii) $Y\hat{A}C = C\hat{D}E$ (iii) $B\hat{P}C = O\hat{D}C$.
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