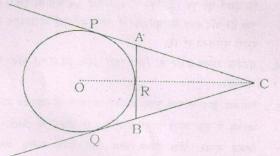
SSC Mains Test- 22

The bisector of interior ∠A of △ABC meets BC in D, and the bisector of exterior∠A

meets BC produced in E. Then $\frac{BD}{BE}$ =?

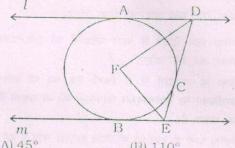
- (A) $\frac{CE}{CD}$
- (C) $\frac{AD}{AE}$
- 2. In figure, CP and CQ are tangents from an external point C to a circle with centre O. AB is another tangent which touches the circle at R. If CP = 11 cm and BR = 4 cm, find the length of BC.



(A) 7 cm

8

- (B) 8 cm
- (C) 5 cm
- (D) 10 cm
- In fig, l and m are two parallel tangents at A and B. The tangent at C makes an intercept DE between land m. Find ∠DFE.



- (A) 45°
- (B) 110°
- (C) 90°
- (D) 20°
- The distance of the point (12, -9) from the origin is -
 - (A) 13 units
- (B) 15 units
- (C) 12 units
- (D) 17 units

- A rectangular tank is 45 m long and 26 m broad. Water flows into it through a pipe whose cross-section is 13 cm2, at the rate of 9 km/hour. How much will the level of the water rise in the tank in 15 min?
 - (A) 0.0016 m
- (B) 0.0020 m
- (C) 0.0025 m
- (D) 0.0018 m
- The diameters of the outer and inner circumference of a cylindrical ring are 10.75 cm and 9.5 cm respectively. Find the surface area of the ring
 - (A) 52.52 cm²
- (B) 62.52 cm²
- (C) 62.62 cm²
- (D) 52.62 cm²
- A rectangular sheet of paper, 36 cm × 22 cm, is rolled along its length to form a cylinder. Find the volume of the cylinder so formed.

 - (A) 2682 cm³ (B) 6822 cm³
 - (C) 2782 cm³
- (D) 1386 cm³
- A pyramid on a square base has four equilateral triangles on its four other faces, each edges being 10m. Find its volume.

 - (A) 235.7 m³ (B) 253.7 m³
 - (C) 532.7 m³ (D) 352.7 m³
- 9. If α, β, γ are the zeros of the polynomial

$$f(x) = ax^3 + bx^2 + cx + d$$
, then $(\alpha^2 + \beta^2 + \gamma^2) =$

- (C) $\frac{b^2 + 2ac}{b^2}$ (D) $\frac{b^2 2ac}{a^2}$
- 10. Solve the following system of equations in xand y.

$$(a-b)x + (a+b)y = a^2 - 2ab - b^2$$
$$(a+b)(x+y) = a^2 + b^2$$

(A)
$$x = a + b$$
, $y = \frac{2ab}{a + b}$

(B)
$$x = a + b$$
, $y = \frac{-2ab}{a+b}$

(C)
$$x = a - b$$
, $y = \frac{-2ab}{a+b}$

(D) None of these



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11.	Find the values of a and b so that $x^4 + x^3 +$	
	$8x^2 + ax + b$ is divisible by $x^2 + 1$.	

(A) a = 1, b = 7 (B) a = 2, b = 5

(C) a = 2, b = 7 (D) None of these

A two digit number is 4 times the sum of its digits and twice the product of the digits. Find the number.

> (A) 54(C) 45

(B) 63

(D) 36

13. If $2(\cos^2\theta - \sin^2\theta) = 1$, then the value of acute angle θ .

(A) 30°

(B) 60°

(C) 45°

(D) 90°

14. If $2\sin^2\theta = 3\cos\theta$, then find the positive angle 0.

(A) 45°

(B) 30°

(C) 60°

(D) 90°

If $\cos^2 A - \sin^2 A = \tan^2 B$, then $\cos^2 B - \sin^2 B$

(A) 1

(B) tan²A

(C) 2

(D) sec²A

16. In a right triangle ABC if $\angle C = 90^{\circ}$, then find the value of:

sinC(secA cosecB - tanA . cotB)

(B) 2

(C) 3

(D) 4

If the equation $(1 + m^2)x^2 + 2mcx + (c^2 - a^2) = 0$ has equal roots, find the value of $a^2(1 + m^2)$.

 $(B) m^2$

(C) c2

(D) None of these

18. An aeroplane left 50 minutes later than its scheduled time, and in order to reach the destination, 1250 km away, in time, it had to increase its speed by 250 km/hr from the usual speed. Find its usual speed.

(A) 300 km/hour (B) 500 km/hour

(C) 400 km/hour (D) 200 km/hour

Two circles of radii 5 cm and 3 cm intersect at two points and the distance between their centres is 4 cm. Find the length of the common chord.

(A) 6 cm

(B) 5 cm

(C) 4 cm

(D) 7 cm

20. Three girls Sangeeta, Namrata and Mandip are playing a game by standing on circle of radius 5 m drawn in a park. Sangeeta throws a ball to Namrata, Namrata to Mandip, Mandeep to Sangeeta. If the distance between Sangeeta and Namrata and between Namrata and Mandip is 6 m each, what is the distance between Sangita and Mandip?

(A) 7.6 m

(B) 8.6 m

(C) 9.6 m

(D) 4.6 m

A vertical pole fixed to the ground is divided in the ratio 1:9 by a mark on it, the two parts subtend equal angles at a place on the ground, 15 m from the base of the pole. If the lower part be shorter than the upper one, find the height of the pole.

(A) 133 m

(B) 134 m

(C) 135 m

(D) 132 m

If $\cos x = \sin 200^{\circ}$, then the possible values 22.

(A) 160°, 20°

(B) 110°, 250°

(C) 200°, 160°

(D) 290°, 70°

23. Two tangents drawn from an external point to a circle are at right angles and measure 3.5 cm each. The area of the circle is

(A) 38.5 cm²

(B) 28 cm²

(C) 31 cm²

(D) Insufficient data

24. A right angled triangle of which the sides containing the right angles are 36 cm and 15 cm is made to turn round on its longer side. Find the curved surface area of the solid so generated.

(A) 2220 cm²

(B) 2210 cm²

(C) 1836.9 cm²

(D) 2120 cm²

25. If sin A and cos A are the roots of the equation $px^2 + qx + m = 0$, then find a relation among p, q and m.

(A) $q^2 + m^2 = (p + m)^2$

(B) $q^2 - m^2 = (p + m)^2$

(C) $q^2 + m^2 = (p - m)^2$

(D) None of these

26. If (a-3) is factor of $f(a) = a^3 - ba^2 + 4b - 12$, then find the remainder when the expression is divided by (a + 3).

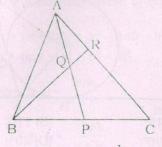
(A) 15

(C) - 54

(D) 54

In the fig, P is the mid-point of BC and Q is 27. the mid-point of AP. If BQ when produced

meets AC at R, then





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ear	MUKHER	IEE NAGAR ★ MUNIRKA ★ UTTAM NAGAR ★ MEERUT ★ VARANASI ★ ROHTAK ★ PANI	* DILSHAD	GARDEN * ROHINI * EPAT * BAHADURGARII	BADARPUR * IAIPUR * GURG/ * AGRA	AON * NOIDA
28.	3 cm and 4 cm points C and I	(B) 8.4 cm	0 37.	find the value (A) 2 (C) -3	(B) 3 (D) 5 '* are in A.P. and als	
29.	From the top of of depression of pillar are 30° ar height of the pi (A) 133.33 m	a hill 200 m high, the angle the top and the bottom of a nd 60° respectively. Find the	39.	In the class of students pass is 46 and in C who passed i Maths and com	(D) 4 f 100 students, the noted in English is 46, Commerce is 58. The note is 10 mm erce is 24 and English and the number with	in Maths e num ber hs is 16 nglish and
30.	height of one i From the midd their feet, an	les are 40 m apart and the state of the other le point of the line joining observer find the angle our tops to be complementary		in all subjects students who (A) 13 (C) 9	is 7. Find the num la failed in all the sub B)8 D)7 rom the end of the g	her of the
31.	(A) 22.22 m, 11. (C) 28.28 m, 14.	11 m (B) 1.414 m, 2.828 m 14 m (D) 44.44 m, 22.22 m to make the statement true:	Jr. 17	Back by Miles	$4, 2, 1, \frac{1}{2}, \frac{1}{4} \dots \frac{1}{10}$	1)24
	$\left \frac{3}{5} \times \frac{-5}{10} \right = \left \frac{3}{5} \right \times \dots$ (A) $\frac{-5}{8}$	(B) $\frac{4}{8}$	41.		(B) $\frac{1}{16}$ (D) $\frac{1}{64}$ the entry fee by 2, the number of	
	(C) $\frac{8}{5}$	(D) $\frac{3}{8}$		increased by 3 decrease in the	80%. The percent in the income from the ercease (B) 0.5% decli	crease or itry fee is
32.	divisible by 132 264, 396, 4, 762 (A) 4	, 792, 968, 2178, 5184, 6336	42.	(C) 2.5% decli If 60 is subtracted by 80	ne (D) 3% increaracted from a num %. The $\frac{2}{3}$ rd of the n	ise iber it is
33.	proper fraction quantity, then (A) always great (B) always less	r and the denominator of a are increased by the same the resulting fraction is er than the original fraction than the original fraction I to the original fraction above	43.	(A) 0 (C) 5 A person boug	(B) 50 (D) 60 40% of 20 - √90% of 2 (B) 10 (D) 20 ght certain quantity	of rice at
34.	(A) (43 - 41)	3 ⁴³) and (41 ⁴¹ + 43 ⁴¹) is (B) (41 ⁴¹ + 43 ⁴¹) (D) (41 + 43)		rice was spoile	150 per quintal, 10 ed. At what price (per l the remaining rice	r quintal)
35.		(B) 3 (D) All of these		20% profit? (A) ₹ 200 (C) ₹ 225	(B) ₹ 180 (D) ₹ 175	

- 36. There are five numbers. HCF of each possible pair is 4 and LCM of all the five numbers is 27720. What will be the product of all the five numbers?
 - (A) 7096320 (B) 7906320 (C) 7096330 (D) 7003630
 - (C) 7096230
- (D) 7903620
- PID TOFF STREOVES OF OFFICE SELECTION
- (A) ₹ 200 (B) ₹ 150

45. A sells a good to B at a profit of 20% and B sells it to C at a profit of 25%. If C pays

₹ 225 for it, what is the cost price for A?

(C) ₹ 175 (D) ₹ 162.5



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On selling an article for ₹ 270 the loss is equal to the profit, if the article is sold at 10% profit. The cost price of the article is

(A) ₹ 290

(B) ₹310

(C) ₹ 300

(D) ₹363

47. A factory has marked the price of the cycle at ₹725 each and allows a discount of 16% to the traders. If they gain 5%, find the cost of manufacturing each cycle.

(A)₹ 680

(B) ₹ 580

(C)₹ 575

(D) ₹ 480

A dishonest dealer professes to sell his goods at cost price by using a false weight and

thus gains $11\frac{1}{9}\%$. For weighing a kilogram,

he uses a weight of

(B) 940 gm.

(A) 960 gm. (B) 940 gm. (C) 920 gm. (D) 900 gm.

By selling an article at 80% of its marked price, a trader makes a loss of 10%. What will be the profit percentage if he sells it at 95% of its marked price?

(A) 6.9

(B) 5

(C) 5.9

(D) 12.5

If the work done by (x - 1) men in (x + 1)days and the work done by (x + 2) men in (x-1) days is in the ratio of 9: 10, then x is equal to

(A) 5

(B) 6

(C) 7

(D) 8

51. Simple interest on a sum of money for 5 years is $\frac{2}{5}$ times the amounts, the rate of simple interest is

(A) 13%

(B) $12\frac{1}{3}\%$

(C) $14\frac{1}{3}\%$ (D) $13\frac{1}{3}\%$

If the difference of compound interest and simple interest for 3 years at the rate of 5% per annum is ₹ 11.40, then the principal is

(A) ₹ 1500

(B) ₹ 1475

(C) ₹ 1395

(D) ₹ 1495

53. On what sum of money will the C.I. of 2 yrs be the same as the S.I. on ₹416 for 10 vrs, the rate of interest being 8% per annum?

(A) ₹2200

(B) ₹24000

(C) ₹2000

(D) ₹1600

On compound interest a certain amount becomes p times in 'a' year, then in how many years it will become q times?

(A) $\frac{1}{\log p}$

The base of a rectangular solid is a square and its height is twice of its length. If its volume is 16000 m³, find the surface area.

(A) 400 cm³

(B) 4000 cm³

(C) 2000 cm³

(D) 2500 cm³

56. The volume of a cylinderical ring is 800 cm³ and the radius of cross-section is 12 cm. Find the surface area of the ring.

(A) 134.2 cm³

(B) 131.2 cm³

(C) 132.2 cm³

(D) 133.2 cm³

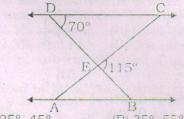
In ABC, the bisector of \(\alpha \) B meets AC at D. A line PQ | AC meets AB, BC and BD at P, Q and R respectively. Then AB × CQ = ?

(A) AP \times BC

(B) BC × AB

(C) $CQ \times AB$ (D) $RQ \times BA$

58. In the fig. if \triangle EDC ~ \triangle EBA, \angle BEC = 115° and $\angle EDC = 70^{\circ}$. Find the $\angle DCE$ and $\angle AEB$.



(A) 25°, 45° (C) 15°, 25°

(B) 35°, 55° (D) 45°, 65°

59. A man on the top of a vertical tower observes a car moving at a uniform speed coming directly towards it. If it takes 12 minutes for the angle of depression to change from 30° to 45°, how soon after this, will the car reach the tower?

(A) 16 min 23 sec (B) 17 min 34 sec

(C) 15 min 32 sec (D) 14 min 41 sec

A metal sphere, 14 cm in diameter, is dropped into a rectangular cistern whose

base measures 49cm $\times \frac{44}{3}$ cm. If the sphere

is totally submerged, by how much will surface of the water be raised.

(A) 2 cm (B) 1 cm

(C) 4 cm

(D) 3 cm



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The perimeter of one square exceeds that of another by 100 m and the area of the larger square exceeds three times that of smaller one by 325 m2. The length of side of smaller square is

(A) 30 m

(B) 55 m

(C) 60 m

(D) 25 m

A right pyramid stands on a rectangular base 32 cm long and 10 cm in width. If the height of the pyramid is 12 cm, find its whole surface area.

(A) 933 cm²

(B) 936 cm²

(C) 934 cm²

(D) 935 cm²

Find the area of triangle whose vertices are (t, t-2), (t+2, t+2) and (t+3, t).

(A) 7 sq. unit

(B) 5 sq. unit

(C) 4 sq. unit (D) 8 sq. unit

64. For what value of 'n', a students finds that $a^{n+1} + b^{n+1}$

 $a^{n/2} + b^{n/2}$, is the arithmetic mean of 'a' and 'b'?

(A) n = 1

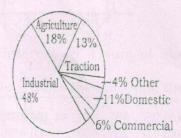
(B) $n = \frac{1}{2}$

(C) n = 0

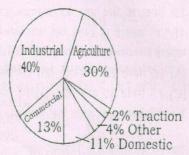
(D) n = -1

Directions (65-70) Read the given information and answer the question based on it. Electricity consumption by various

sectors in 1980-81



Electricity consumption by various sectors in 1993-1994



By what percentage has the consumption of electricity by agriculture increased in 1993-1994 over 1980-1981?

(A) 66%

(B) 33%

(C) 133%

(D) Can't be determined

66. The electricity consumption of how many sectors has definitely increased over the given period?

(A) 1

(B) 2

(C) 3

(D) Can't be determined

67. If the total electricity consumption in 1993-94 is 1.2 times of the total electricity consumption in 1980-1981, then how many sectors have definitely- increased by more than 50% during the same period?

(A) 1

(B) 2 (D)4

(C) 3

If the total electricity consumption in 1993-1994 is 13 times of the total electricity consumption in 1980-1981, then what is the percentage increase in the traction sector in the given period?

(A) 50% (B) 100%

(C) 150% (D) None of these

69. What is the minimum number of sectors required to 'be added up in order to be more than 50% the consumption for the period in 1993-1994?

(A) 1

(B) 2

(C) 3

(D) 4

70. The agricultural consumption of electricity doubled from 1980-81 to 1993-94 if the total electricity consumption grown from 1980-81 to 1993-94 by?

(A) 20%

(B) 25%

(C) 50%

(D)Can't be determined

In a race of 600 m, A can beat B by 60 m and in a race of 500 m, B can beat C by 25 m. By how many metres will A beat C in a 400 m race?

(A) 56 m

(B) 60 m

(C) 58 m

(D) 54 m

A sum of Rs. 370 is to be divided among A, B 72.

and C such that

A's share B's share B'sshare C'sshare

Then, A's share is

(A) ₹ 240 .

(B) ₹ 120

- (C) ₹ 100
- (D) ₹ 90
- The price of land passing through three hands, rises on the whole by 65%. If the first and second sellers carned 20% and 25% profit respectively. Find the profit earned by the third seller.

(A) 20%

(B) 55%

(C) 10%

(D) 25%

One year payment to the servant is ₹ 500 plus one shirt. The servant leaves after 10 months and receives ₹ 350 and a shirt. What is the price of the shirt?

(A) ₹150

(B) ₹ 350

(C) ₹400

(D) ₹ 500



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With Exception and a superior company

75	A parson purchased a sortain number of		
10.	A person purchased a certain number of	83.	A and B started a business with ₹ 20000
	articles at 11 articles for ₹ 10 and sold them		and ₹ 35000 respectively. They agreed to
	at 10 articles for ₹ 11. Find the gain		share the profit in the ratio of their capital
	percentage.		C joins the partnership with the condition
188	(A) 22 (B) 20 (C) 1 (D) 21		that A, B and C will share profit equally and
76.	Of the adult population in a certain city,	1.	pays ₹ 220000 as premium for this, to be
10.	45% of men and 25% of women are married.	133	shared between A and B. This is to be
T. ST.	Assuming that no man marries more than	T S H	divided between A and B in the ratio of
	one women and vice versa, the percentage	Par E	(A) 10:1 (B) 1:10
	of total population of adults who are		(C) 9:10 (D) 10:9
	married, is	84.	A can completes a work in 20 days and E
	(A) 33.33 (B) 32.14	6353	in 30 days. A worked alone for 4 days and
	(C) 31.1 (D) 30		then B completed the remaining work
77.	A garrison is provided with ration for 72		along with C in 18 days. In how many days
	soldiers to last for 54 days. Find how long		can C working alone complete the work?
	would the same amount of food last for 90		(A) 12 (B) 68
35-4	soldiers, if the individual ration is reduced	OE.	(C) 72 (D) 90
	by 10%? (Λ) 48 days (Β) 72 days	85.	A pipe can fill a cistern in 12 min and another pipe can fill it in 15 min, but a third pipe can
-	(C) 54 days (D) 126 days	1	empty it in 6 min. The first two pipes are kept
78.	In an examination paper of five questions,		open for 5 min in the beginning and then the
77.0	5% of the candidates answered all of them		third pipe is also opened. Number of minutes
	and 5% answered none. Of the rest, 25%		taken to empty the cistern is
	candidates answered only one question and		(A) 38 (B) 22
	20% answered 4 questions. If 396 candidates		(C) 42 (D) 45
	answered either 2 questions or 3 questions,	86.	A and B can complete a job in 24 days
	the number of candidates that appeared for		working together. A alone can complete it
	the examination was	THE REAL PROPERTY.	in 32 days. Both of them worked together for
	(A) 800 (B) 1000		8 days and then A left. The number of days B
70	(C) 850 (D) 900	No.	will take to complete the remaining job is
79.	In a test, A scored 10% more than B and B scored 5% more than C. If C scored 300	PIDL B	(A) 16 (B) 32
0,79	marks out of 400, then A's marks are		(C) 64 (D) 128
	(A) 310 (B) 325	87.	In a factory, there are equal number of
	(C) 350 (D) 360		women and children. Women work for 6 h a
80.	A train crosses a bridge of length 150 m in		days and children for 4 h a day. During
	15 s and a man standing on it in 9 s. The		festival time, the work load goes up by 50%.
	train is travelling at a uniform speed.		The government rule does not allow children
	Length of the train is		to work for more than 6 h a day. If they are
	(A) 225m (B) 200m		equally efficient and the extra work is done
0.1	(C) 135m (D) 90 m		by women, then extra hours of work put in
81.	Arun and Bhaskar start from place P at 6		by women every day are
	am and 7:30 am respectively and run in the same direction. Arun and Bhaskar run at		(A) 5 (B) 3
	8 km/h and 12/h, respectively. Bhaskar	00	(C) 4 (D) 9
	overtakes Arun at	88.	The average of the test scores of a class of m' students is 70 and that of 'n' students is
	(A) 10:30 am (B) 9 am	136	91. When the scores of both the classes are
	(C) 11:30 am (D) 11 am		combined, the average is 80, What is n/m?
82.	A toy factory manufactured a batch of		(A) 11/10 (B) 13/10
	electronic toys. If the toys were packed in		(C) 10/13 (D) 10/11
	boxes of 115 each, 13 boxes would not be filled	89.	The average salary per head of all workers
	completely. If the toys were packed in boxes		
	of 65 each, 22 such boxes would not be		of an institution is ₹ 60. The average salary
	enough to pack all of them. Coincidentally,		per head of 12 officers is ₹ 400. The average
	in the end, the toys were packed in n boxes		salary per head on the rest is ₹ 56. Then,
	containing n toys each, without any		the total number of workers in the
	remainder. The total number of toys was		institution is
	(A) 1424 (B) 1434		(A) 1030 (B) 1032
	(C) 1444 (D) 1454		(C) 1062 (D) 1060



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90. If the ratio of sum and difference of two numbers is 7:1, then the ratio of these two numbers is

(A) 5:3

(B) 7:2

(C)4:3

(D) 3:4

91. Average age of three boys is 16 years. If the ratio of their ages is 4:5:7, then the age of the youngest boy is

(A) 8 years

(B) 9 years

(C) 12 years

(D) 16 years

92. The ratio of Rita's age to the age of her mother is 3:11. The difference of their age is 24 years. What will be the ratio of their age after 3 years?

(A) 2:3

(B) 1:2

(C) 1:3

(D) 3:5

93. If ₹370 are distributed among A, B and C in

the ratio $\frac{1}{4}:\frac{1}{5}:\frac{1}{6}$, then what amount A will

(A) ₹ 180

(B) ₹ 120

(C) ₹ 150

(D) ₹ 160

94. A man is late by 5 mintues to reach his office from his house when he moves with a speed of 4 km/hour. If he moves with a speed of 5 km/hour then he reaches his office 4 minutes earlier, then the distance of his office from his house is -

> (A) 4 km (C) 5 km

(B) 3 km (D) 2 km

An aeroplane travels distances 2500km, 1200 km and 500 km at the rate of 500 km/ hr, 400 km/hr and 250 km/hr respectively. The average speed is -

(A) 420km/hr

(B) 410 km/hr

(C) 405km/hr (D) 575 km/hr

The quadrilateral, whose vertices are (-1, 1), (0, -3), (5, 2) and (4, 6) is

(A) a square (B) a rectangle

(C) a rhombus (D) a parallelogram

Directions (97-100): Study the table given below and answer the following questions. Loans Disbursed by Four Banks in Crores of Rupees in Different Years

Banks	Years				
Danks	2007	2008	2009	2010	
Α	18	23	45	30	
В	27	33	18	41	
C	29	29	22	17	
D	13	19	28	32	
Total	87	104	113	120	

In which year the disbursement of loans by all the banks combined together was nearest to the average disbursement of loans over the years?

(A) 2007 (B) 2008

(C) 2009 (D) 2010

What was the percentage increase of disbursement of loans of all banks together from 2009 to 2010?

(C) $6\frac{11}{113}\%$ (D) $7\frac{11}{113}\%$

99. In which year was the total disbursement of loans of banks A and B exactly equal to the total disbursement of loans of banks C and D?

(A) 2007

(B) 2008

(C) 2010

(D) None of these

100. In which banks was the loan disbursement more than 30% of the disbursement of all banks combined together in 2010?

(A) A

(B) B

(C) C

(D) D