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An order of the Supreme Court or the High Court commanding a person or a body to do that which is his duty to do is known as : A) Mandamus		 C) Trygve Lie, Dag Hammarskjoeld, U Thant, Kurt Waldheim D) U Thant, Dag Hammarskjoeld, Trygve 					
B) CertiorariC) Obiter DictumD) Quo Warranto	11.	Lie, Kurt Waldheim A light year, as a unit of measurement of distances of					
 Who was the founder of Lodhi Dynasty? A) Sikandar Lodhi B) Bahlol Lodhi C) Ibrahim Lodhi D) Daulat Khan Lodhi What are Sunspots? A) These are great flames of 		 heavenly bodies, is equal to A) 6 million, million km B) 9.5 million, million km C) 7.5 million, million km D) 11.5 million, million km (speed of light is equal to 3,00,000 km/per sec) 					
 a) These are great failed of gases which shoot out of the Sun B) These are cooler areas which move about on the Sun's surface and show up as dark spots C) These are areas of the Sun where the heat is most 	12.	In which one of the following States is the literacy rate more than the National average as per Census 2001? A) Andhra Pradesh B) Haryana					
intense which shows up as dark spotsD) These are areas of the Sun where nuclear fission takes place	13.	 C) Meghalaya D) Rajasthan Whereas the National Development Council is headed by the Prime Minister. 					
From the following, choose the set in which names of Secretary-Generals of the UNO are arranged in correct		who happens to be the Secretary of the National Development Council?					
 A) U Thant, Kurt Waldheim, Dag Hammarskjoeld, Trygve Lie B) Trygve Lie, U Thant, Dag Hammarskjoeld, Kurt Waldheim 		 B) Secretary, Planning Commission C) Leader of the Opposition, Lok Sabha D) Deputy Prime Minister 					

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g <u>14</u> .	How is the new membership	C) An all India service can
	of the United Nations	be created by Rajya Sabha
	A) The admission of any	by passing resolution by
1	State as member will be	A) A only
)	effected by a decision of	B) C only
	the Security Council on	C) A and C both
f	the recommendation of	D) None of the statements
F	the General Assembly	Δf None of the statements
	B) The admission of any	A, B G C is incorrect
	State as member	16. The latitude difference
	will be effected by a	between India and Pakistan
	decision of the General	for their Standard time is $\mathbf{D}_{\mathbf{N}} = \mathbf{D}_{\mathbf{N}}$
	Assembly on the	A) 7° B) 7.5°
1	recommendation of the	C) 8 ^a D) 8.5 ^a
)	Security Council	17. Which of the following
	C) The admission of any	minerals is found in beach
	State as member will be	sand ?
	effected by a joint	A) Gypsum B) Ilmenite
	decision of the	C) Gold D) Kyanite
	Security Council and	18. Who among the following
	General Assembly	introduced the Permanent
	D) The admission of any	Settlement of Bengal?
	will be offected by a	A) Warren Hastings
	decision of new	B) Lord William Bentinck
	membership council	C) Lord Cornwallis
	followed by a voting in	D) Lord Dalhousie
L	General Assembly	19. Name the Indian who was
5 15	Find out the incorrect	associated with the
10.	statement out of the	discovery of Mohenjodaro.
, ,	following.	A) Rakhaldas Banerjee
	A) Normal period of Lok	B) R.D. Chatterjee
	Sabha is five years and in	C) W.C. Banerjee
	any case it cannot be	D) S.N. Banerjee
	extended even by an Act	20. Humayun's Tomb was built
I	passed by the Parliament.	by
	B) Rajya Sabha is a	A) Bu Hatima
,	permanent body and is	B) Nur Jahan
	not subject to	C) Hazi Begum
	dissolution.	D) Akbar

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21. Number of players on each C) Full moon occurs when side of the Volleyball, the moon comes between **Basketball and Baseball** the earth and the sun games are respectively **D)** The difference in minutes A) 5, 6, 9 **B)** 6, 9, 5 between the Greenwich **C)** 6, 5, 9 **D)** 6, 5, 7 time and the local time 22. Plaster of Paris is obtained at a place can be derived from by multiplying the A) Limestone B) Silica longitude of the place by C) Bauxite **D)** Gypsum four 23. Which of the following is 28. The highest grade of coal used as antifreeze for the whose surface shines and has automobile engine? the highest calorific value is A) Propyl alcohol A) Anthracite B) Lignite B) Ethanol C) Hematite C) Methanol **D)** None of these **D)** Ethylene glycol 29. In which folk paintings of 24. Antigen is a substance India valuable stones and which pieces of glass are pasted? A) Lowers body temperature A) Nath Dwara B) Tanjore B) Destroys harmful bacteria C) Kalighat **C)** Triggers the immune **D)** Jagannath Puri system **D)** Is used as an antidote to 30. The number of images of an poison object formed by two mirrors 25. Touch corpuscles are present inclined at an angle of 60° is in which part of the body? **A)** 6 A) Epidermis B) Dermis **C)** 4 C) Blood **D)**Muscles 31. If the length of a rectangle 26. Which organ of the body is is increased by 20% and the affected in typhoid? width is decreased by 20%, A) Stomach B) Kidney then the area of the **D)**Intestine C) Lungs rectangle 27. Find the incorrect statement : A) Decreases by 20% A) Spring tide is caused by **B)** Decreases by 4% the gravitational pull of **C)** Increases by 40% the moon and the sun **D)** Remains unchanged together in the same 32. If n and p are both odd direction numbers, then which of the **B)** A line on a map that joins following is an even number? all the places of the same A) np height above sea level is **C)** n + p + 1 **D)** n + pcalled contour line

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33. A type has two punctures. The first puncture alone would have made the tyre flat in 9 minutes and the second alone would have done it in 6 minutes. If the air leaks out at a constant rate, then how long does it take, in minutes, for both the punctures together to make it flat?

A)
$$3\frac{3}{5}$$
 B) $3\frac{1}{2}$
C) $1\frac{1}{2}$ D) $4\frac{1}{4}$

34. Given that 'a' is less than 'b', then which of the following is greater than 'a' and less than `b' ?

A)
$$b^2 - a^2$$
 B) $\frac{ab}{2}$

D) $\frac{a+b}{2}$ **C)** ab

35. For integer n, if n^3 is odd, then which of the following statements are true? I) n is odd

II) n^2 is odd III) n² is even A) I only

- **B)** II only C) I G III only D) I G II only
- 36. If the radius of a circle is increased by 6%, then its area is increased by **A)** 0.36% **B)** 12.36% **C)** 36% **D)** 3.6%
- 37. If three metallic spheres of radii 6 cm, 8 cm and 10 cm are melted to form a single

	the new sphere will be							
	A) 12 cm	B)	24 cm					
	C) 30 cm	D)	36 cm					
38.	The sum of the	e pre	esent ages					
	of a son and	a fa	ther is 60					
	years. Six ye	ears	ago, the					
	father's age v	was	twice his					
	son's prese	nt a	age. The					
	father's age is							
	A) 42 years	B)	40 years					
	C) 36 years	D)	54 years					
39.	Shyam is trav	velli	ng on his					
	cycle and has	cale	culated to					
	reach the poir	nt A	' at 2 PM,					
	if he travels at	t 10	kmph. He					
	will reach the	re at	t 12 noon,					
	if he travels a	t 15	kmph. At					
	what speed mu	ıst h	e travel to					
	reach A at 1 P	M ?						
	A) 12 kmph	B) 1	4 kmph					
	C) 8 kmph	D) 1	1 kmph					
40.	Two circular	met	allic discs					
	have a thickn	ess (of 15 mm.					
	Their areas are	e in 1	the ratio 9					
	: 1. The smal	ler o	lia disc is					
	proceed again	ct t	ho higgor					

sphere, then the diameter of

pressed against the bigger disc and rotated around it on a flat surface. How many times will the small disc rotate before it completes one circle of the bigger disc?

π

D) None of these

C) π

41. A metallic cuboid weighs 16 kg. How much would a miniature cuboid of metal weigh, if all the dimensions are reduced to 1/4 of the original?

B) 5

D) 7

B) np + 2

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- A) 0.50 kg
 B) 0.25 kg
 C) 0.75 kg
 D) 1.0 kg
- 42. ABCD are mid points of the rectangle. AB = 10 cm, If one of the sides of the rectangle is 12 cm, then what is the area of ABCD ?



fill a tank in 30 minutes, 20 minutes and 10 minutes respectively. When the tank is empty, then all the three pipes are opened. Pipes A,B and C discharge chemical solutions 'Q', 'R'and 'S' respectively. What is the proportion of solution 'S' in the liquid in the tank after 3 minutes?

A)
$$\frac{7}{11}$$
 B) $\frac{5}{11}$
C) $\frac{6}{11}$ **D)** $\frac{8}{11}$

44. What is the ratio of the area of a right isosceles triangle inscribed in a circle to that of the area of the circle in which it is inscribed ?

 $\frac{\pi}{2}$

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B)

Α) π

C)
$$\frac{\pi}{4}$$
 D) $\frac{1}{\pi}$

- 45. The fluid contained in a bucket can fill four "large" bottles or seven "small" bottles. A full large bottle is used to fill an empty small bottle. What fraction of the fluid is left over in the large bottle when the small one is full?
 - **A)** $\frac{5}{7}$ **B)** $\frac{3}{7}$ **C)** $\frac{4}{7}$ **D)** $\frac{2}{7}$
- 46. In a History examination, the average for the entire class was 80 marks. If 10% of the students scored 95 marks and 20% scored 90 marks, then what were the average marks of the remaining students of the class ?

A) 65.5B) 85C) 75D) 72.5

47. A large tanker can be filled by two pipes A and B in 60 minutes and 40 minutes respectively. How many minutes will it take to fill the tanker, if pipe B is used for half the time and pipes A and B fill it together for the other half?

A) 30 min
B) 15 min
C) 20 min
D) 27.5 min

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48. The relation between the side(s) of a metallic cube and the radius (r) of a sphere which can be cast from each other is expressed as

A) $r^{2} = S^{2}\sqrt{4\pi}$ **B)** $\frac{r}{S^{2}} = \sqrt{S.\frac{4\pi}{3}}$

C) $rS = \sqrt[3]{\frac{3}{4\pi}}$ **D)** $r = S\sqrt[3]{\frac{3}{4\pi}}$

49. There are six chairs and six persons A B C D E F to be photographed. If without asking their names, the photographer randomly asks them to sit down, then what are the chances that they are sitting in the alphabetical order of their surnames, given that no surnames are the same?

A)
$$\frac{1}{6}$$
 B) $\frac{1}{360}$
C) $\frac{1}{720}$ D) $\frac{1}{5760}$

50. The weight of the container alone is 25% of the container filled with a certain fluid. When some fluid is removed, then the weight of the container and the remaining liquid is 50% of the original total weight. What fractional part of the liquid has been removed? A) $\frac{1}{3}$ B) $\frac{2}{3}$ C) $\frac{1}{2}$ D) $\frac{3}{4}$

51. The formula for the number of diagonals in a polygon of

n sides is
$$d = \frac{1}{2} [n(n-3)].$$

If the number of diagonals in a polygon is twice the number of sides, then what is the number of sides ?

A) 3
B) 5
C) 7
D) 8

52. A machinist, by increasing his normal rate of work by

 $12\frac{1}{2}\%$, could produce 15

items more in a given period of time. How many items can he produce if he works at 80% of his normal rate ?

A)	100	B)	90
~	~~	-	~~~

- **C)** 80 **D)** 96
- 53. The height of a room is 5 m and capacity is 500 cu. m. If the room is a square, then how much paper of twometre width is required to cover the walls?
 - A) 120 m
 B) 90 m

 C) 100 m
 D) 60 m
- 54. The diagonals of a rhombus are 45 and 30. The area of the rhombus is
 A) 675
 B) 1350

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55.	Vivek is standing at a point ``A'' and walks North-east for		A) QRUW B) QSUW C) STUB D) OBST				
	4 kilometres He stops faces	50	Thermometer : Degrees ::				
	South and walks till he can	59.	Ammeter · 2				
	see point 'A' exactly to his		A) Volts B) Current				
	West. How far is he now from		C) Watts D) Amperes				
	the point A?	60	Arctic : Antarctic :: Concor :				
	A) 2 km	00.	A) Capricorn B) Disease				
	\mathbf{B} \mathbf{a} $\sqrt{\mathbf{a}}$ km		C) Equator D)Population				
			Directions (O_{2} , 61, 62) · Directions				
	C) $2\sqrt{3}$ km	the	Directions (QS. 01 G 02). Fick				
	D) None of these		A) Contract D) Contract				
56.	A man standing under a lone	61.	A) Cactus B) Sand				
	tree in a desert at night		C) Mirage D) Pine				
	walks in the direction of the	62.	A) Cube B) Cone				
	pole star for 5 km. He then		C) Cylinder				
	turns 90 $^{\circ}$ to his right and		D) Trapezium				
	walks another 5 km. He has		Directions (Qs. 63 & 64) :				
	a compass. In which	Com	plete the letter series given				
	direction should he walk to	in th	nese questions :				
	get back to the original	63.	ABCCBADEFFEDGH				
	starting point ?		I				
	A) South		A) I B) H				
	B) South-east		C) G D) J				
	C) South-west	64.	J K M P				
57	A former evens a severe of		A) T B) U				
57.	A farmer owns a square of land $500 \text{ m} \times 500 \text{ m}$ One		C) V D) W				
	diagonal of the square has a		Directions (Qs. 65 & 66) : In				
	Fast-west direction While	thes	se questions, complete the				
	walking along the perimeter	give	en number series:				
	in which direction can he	65.	17, 19, 23, 29,				
	never walk ?		A) 33 B) 31				
	A) North-east		C) 34 D) 37				
	B) South-east	66.	204, 100, 48, 22,				
	C) North-west		A) 10 B) 9				
	D) None of these		C) 13 D) 7				
	Directions (Qs. 58 to 60) :		Directions (Qs. 67 to 70) : In				
Selec	ct the alternative to satisfy the	the diagram given below, the circle					
relat	ionship in these questions :	represents the educated; the large					
58.	ACEG : BDFH :: PRTV : ?	rect	angle represents the healthy				

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and the small rectangle, the rich people.



- The educated people who are 67. neither rich nor healthy are partly represented by **A)** 1 **B)** 2 **C)** 5 **D)** 6 The non-educated who are 68. not healthy are represented by **A)** 2 **B)** 4 **C)** 6 **D)** None of these Select the statement which 69. is not true: A) Education is essential for being rich B) Health is essential for being rich C) All rich are healthy and educated **D)** None of these 70. Select the statement which is true: A) The number of the educated who are not rich and healthy is nil **B)** There are some rich who are not educated C) The health of people moving from 2 to 5 will change
 - **D)** People in 4 differ from people in 2 only in the status of health

Directions (Qs. 71 to 75) : Read the following passage carefully to answer these questions on the basis of the contents of the passage and what is stated and implied therein.

Listen to our body's wisdom, which expresses itself through signals of comfort and discomfort. When choosing a certain behaviour, ask your body, "How do you feel about this?" If your body sends a signal of physical or emotional distress, watch out. If your body sends a signal of comfort and eagerness, proceed.

Live in the present, for it is the only moment you have. Keep your attention on what is here and now look for the fullness in every moment. Accept what comes to you totally and completely so that you can appreciate it, learn from it, and then let it go. The present is as it should be. It reflects infinite laws of Nature that have brought you this exact thought, this exact physical response.

This moment is as it is because the universe is as it is. Don't struggle against the infinite scheme of things; instead, be at one with it.

Take time to be silent, to meditate, to quiet the internal dialogue. In moments of silence, realise that you are recontacting your source of pure awareness. Pay attention to your inner life so that you can be guided by intuition rather than externally imposed

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interpretations of what is or isn't good for you.

Relinquish your need for external approval. You alone are the judge of your worth and your goal is to discover infinite worth in yourself, no matter what anyone else thinks. There is great freedom in this realisation.

When you find yourself reacting with anger or opposition to any person or circumstance, realise that you are only struggling with yourself. Putting up resistance is the response of defenses created by old hurts. When you relinquish this anger, you will be healing yourself and cooperating with the flow of the universe.

Know that the world "Out there" reflects your reality "in here". The people you react to most strongly, whether with love or hate, are projections of your inner world. What you most hate is what you most deny in yourself. What you most love is what you most wish for in yourself. Use the mirror of relationships to guide your evolution. The goal is total selfknowledge. When you achieve that, what you most want will automatically be there, and what you most dislike will disappear.

Shed the burden of judgement-you will feel much lighter. Judgement imposes right and wrong on situations that just are. Everything can be understood and forgiven, but when you judge, you cut off nderstanding and shut down the process of learning to love. In judging others, you reflect your lack of selfacceptance. Remember that every person you forgive adds to your self-love.

Don't contaminate your body with toxins, either through food, drink or toxic emotions. Your body is more than a life-support system. It is the vehicle that will carry you on the journey of your evolution. The health of every cell directly contributes to your state of wellbeing, because every cell is a point of awareness within the field of awareness that is you.

Replace fear-motivated behaviour with love-motivated behaviour. Fear is the product of memory, which dwells in the past. Remembering what hurt us before, we direct our energies towards making certain that an old hurt will not

repeat itself. But trying to impose the past on the present will never wipe out the threat of being hurt. That happens only when you find the security of your own being, which is love. Motivated by the truth inside you, you can face any threat because your inner strength is invulnerable to fear.

Understand that the physical world is just a mirror of a deeper intelligence. Intelligence is the invisible organiser of all matter and energy.

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71.	According to the passage the	C) Using the mirror of
	author's advice on now to be	D) Cine up foor related
	A) Through scientific	behaviour
	analysis	Denaviour
	B) Through exercise & diet	Directions (Qs. 76 to 78) : In
	C) Through better education	these questions, a word is
	D) Through one's intuition	followed by four choices. Select
72.	What according to the	the choice that best explains the
,	author, is the best way to	meaning of the given word.
	quieten the inner turmoil	76. Contraband
	that goes on within us ?	A) Illegal goods
	A) Yogic exercises	B) Customs inspector
	B) Deep breathing	C) Money belt
	C) Meditation	D) Latin musical group
	D) Avoiding hate	77. Variegated
73.	When there is a doubt as to	A) ln rows
	what attitude or form of	B) Genetically-altered
	behaviour we should adopt	C) Well-watered
	in a particular situation, who	D) Having different colours
	should we listen to ?	78. Cavalcade
	A) Our close friends	A) Procession
	B) Our family elders	B) Water fall
	C) A good doctor	C) Avalanche
	D) Our ownself	D) A great banquet
74.	Which of the following	Directions (Qs. 79 to 81): In
	statements is not true	these questions, a word is
	according to the passage ?	followed by four answer choices.
	A) We must seek need for	Choose the word or phrase most
	external approval	nearly opposite in
	B) We should accept	meaning to the given word :
	whatever comes totally	79. Coy
	C) We are ourselves the	A) Weak B) Brazen
	judges of our own worth	C) Old D) Tiresome
	D) We should avoid passing	80. Debonair
	judgement on situations	A) Strong B) Windy
75.	According to the author, the	C) Awkward D) Quiet
	best way to guide our	81. Ethereal
	evolution is through	A) Critical B) Alcoholic
	A) Avoidance of anger	C) Long lasting
	B) Cultivation of love and	\mathbf{D} Forthy

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	A)
	B)
	C)
	D)
88.	Una
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	B)
	C)
	D)
89.	The
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	B)
	C)
00	D) Th
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91.	On
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	88. 89. 90. thes give A, F whe exis 91.

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A) Representative
B) Constructive
C) Mandatory
D) Pertinent
Unable to his dislike
fo the opponent, Mr. Raj
continued to make
comments
throughout the meeting.
A) Control, open
B) Express, quiet
C) Disguise, caustic
D) Hide, appreciative
The businessman was very
gentle when he mentioned
his friends but was bitter and
when he discussed
people whohim.
A) Noisy, encouraged
B) Calm, discouraged
C) Angry, distressed
D) Expressive, disliked
The dean tried to retain
control of the situation on
the campus but his attempt
was by the board of
trustees.
A) Endorsed
B) Frustrated
C) Disclosed
D) Justified
Directions (Qs. 91 to 95): In
se questions, a sentence is
n with the underlined portions
3, C & D) Select the choice
ere you consider that an error
ts.
On A) / 15 th August, people
gethered B) / together to C) /
celebrate the <u>Independence</u>
<u>Day</u> .D)
A) A B) B
C) C D) D

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92.	The A	A) / b	eaut	iful <u>sı</u>	arrou	und-	96.	A)	Mach	liave	lien		
	ing B)) / of	the	<u>place</u>	<u>C) /</u>	en-		B)	Mach	iavel	lian		
	chant	ed <u>n</u>	<u>ne</u> . D)				C)	Mach	avell	ian		
	A) A			B) I	3			D)	Mach	naveil	lian		
	C) C			D) I	C		97.	A)	Anor	notoj	poeia		
93.	Ram	wen	t <u>to</u>	A) /	the	B) /		B)	Onan	notop	oeia		
	marke	et an	d bo	ught (C)/t	hree		C)	Onor	nator	oeia		
	dozen	s.D)	/ of	orang	es.			D)	Onor	natop	oiea		
	A) A	_ `		B) H	3			Dir	ectio	ns (Q	s. 98	to 1	00) :
	C) C			D) 1	5		In t	hese	ques	tions	, four	part	s of a
0/	Ho od	ucot	od n	ot only	- Δ)	/hic	sen	tence	are	given	in se	quen	ce as
54.	nonho	utat				/ 1115 him	A),	B), (C) G	г D) .	Poin	t out	t the
	nepne	• • • • • •	but a	<u>so</u> b),	set אין	mm	cho	ice w	hich	is no	t acc	eptak	ole in
	C) / uj	p <u>in</u>	busi	ness.	(ע		sta	ndard	Engl	ish.		-	
	A) A			B) 1	5		98.	A)	I pai	d			
	C) C			D) I	נ			B)	the p	rice o	of		
95.	The ca	ause	for A	A)/ <u>the</u>	esuc	lden		C)	this	car			
	explo	sion	B) /	in the	aire	craft		D)	by ca	sh			
	C) /	had	not	; bee	<u>n</u> . 1	D) /	99.	A)	Pass	ina b	v the	dam	age
	discov	<i>z</i> ere	d till	today	7.			,	hous	nig 2	y 0110	uuiii	age
	A) A			B) B				D)	nou.	-l	a dia	امطعي	a d
	C) C			D) D)			р) С)	a Drie		is uis	louge	eu
	Direct	tions	s (Os	.96 G	· 97)	: In		C) (D)	anu i		uldo	n	
thes	e ques	stion	is. tl	here a	are	four	100	עם ארבר	Un m Until		ulue	L	
choi	ces for	thes		nas o	faw	ord.	100	ער . ס	nomo	in no	atlaar		
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wor	d is cor	roct	hv er					C)	you c	anne	n to		
WOI	u 15 COI	Tect	iy sh	Jeit .				D)	COLCE	entra	le		
					(.	ANSW	/ER	5					
1	. (B)	2.	(B)	3.	(C)	4.	(A)	5.	(A)	6.	(B)	7.	(A)
8	B. (B)	9.	(B)	10.	(C)	11.	(B)	12.	(B)	13.	(B)	14.	(B)
15	5. (D)	16.	(B)	17.	(B)	18.	(C)	19.	(A)	20.	(C)	21.	(C)
22	2. (D)	23.	(D)	24.	(B)	25.	(B)	26.	(C)	27.	(C)	28.	(A)
29). (A)	30.	(B)	31.	(B)	32.	(D)	33.	(A)	34.	(D)	35.	(D)
30). (B)	37.	(B)	38. 45	(A)	39. 46	(A)	40.	(A) (D)	41. 40	(B)	42.	(A) (D)
43) (Δ)	44. 51	(D) (C)	40. 52	(D)	40. 52	(C)	47. 54	(Δ) (Δ)	40. 55	(D) (B)	49. 56	(D) (C)
57	, (д) 7. (D)	58	(B)	59	(B)	60 60	(C) (A)	61	(C)	62 62	(D)	63	(C) (A)
64	. (A)	65.	(D)	66.	(B)	67.	(A)	68.	(D)	69.	(D)	70.	(D)
71	. (D)	72.	(D)	73.	(D)	74.	(A)	75.	(C)	76.	(A)	77.	(D)
78	B. (A)	79.	(B)	80.	(B)	81.	(D)	82.	(C)	83.	(A)	84.	(C)
85	i. (D)	86.	(D)	87.	(B)	88.	(C)	89.	(C)	90.	(B)	91.	(B)
92	2. (B)	93.	(D)	94.	(A)	95.	(D)	96.	(B)	97.	(C)	98.	(D)
99). (A)	100.	(A)										

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SURA'S RRB - Non-Technical / Clerical Cadre - Solved Question Paper - 2014

EXPLANATORY ANSWERS

2S = F - 6

 \Rightarrow 2S - F = - 6

 \therefore S = 18, F = 42

point A by 2 P.M.

same

by 12 Noon.

= 60 km.

disc.

cm.

If side of the

volume

distance in x hours (a) 10

km/hr so as to reach the

Suppose, he covers the

(x - 2) hours @ 15 km/hr

so as to reach the point A

 \therefore $10x = 15(x - 2) \implies x = 6$

 \Rightarrow Shyam starts his journey at 8 A.M. and

the length of the journey

 \Rightarrow So as to reach the point

A at 1 PM, Shyam must

discs are in the ratio 3 : 1.

Therefore, the smaller

disc will rotate three

times before it completes

one circle of the bigger

then its volume = 1 cu.

 \Rightarrow 1 cu. cm weighs 16 kg.

becomes $\frac{1}{4}$ cm, then its

cube

travel @ 12 km/hr.

distance

in

33. A) In one minute,

33. A) In one minute,

$$\frac{1}{9} + \frac{1}{6} = \frac{15}{54}$$

$$= \frac{5}{18} \text{ of the tyre becomes} \\flat.
$$\therefore \text{ The complete tyre will be flat in}$$

$$\frac{18}{5} = 3\frac{3}{5} \text{ minutes}$$
36. B) If radius of the circle = 100 units,
 $= \pi r^2 = \pi \times 10000 \text{ sq units.}$
then area If radius of the circle becomes 106 units, then area If radius of the circle becomes 106 units, then area becomes
 $\pi \times \pi \times 106 \times 106 = 11236$
sq units π sq units.
 \therefore Percent increase in area $= \frac{1236}{10000} \times 100 = 12.36$
37. B) Let R be the radius of the new sphere.
 $\therefore \frac{4}{3}\pi R^3$
 $= \frac{4}{3}\pi \times (6^3 + 8^3 + 10^3)$
 $\Rightarrow R^3 = 216 + 512 + 1000$
 $= 1728 \Rightarrow R = 12$
 \therefore Diameter of the new sphere = 24cm$$

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In one minute, pipe B can \Rightarrow r=S× $\sqrt[3]{\frac{3}{4\pi}}$ fill $\frac{1}{40}$ of the tank. **49. B)** $\frac{2}{|60|} = \frac{2}{720} = \frac{1}{360}$ In one minute, both the pipes A & B together can fill $\frac{1}{60} + \frac{1}{40} = \frac{1}{24}$ of the 50. A) Suppose, weight of the container+fluid tank. = 100 kg.If the whole tank is filled : Weight of the container in 2x minutes, then in x= 25 kgminutes pipe B alone can Weight of the fluid in fill $\frac{x}{40}$ of the tank. the container = 75 kg Remaining, $1-\frac{x}{40}$ 51. C) d = 2n $\Rightarrow \frac{1}{2} [n(n-3)] = 2n$ $=\frac{40-x}{40}$ of the tank will \Rightarrow n²-3n=4n \Rightarrow n²=7n be filled by both the pipes \Rightarrow n=7 A and B together in xminutes. 52. D) Suppose the normal rate of work = 100, in which the $\therefore \quad \frac{x}{24} = \frac{40 - x}{40}$ machinist can produce xitems. $\Rightarrow 40x = 960 - 24x$: If the normal rate of work is increased to $\Rightarrow 64x = 960 \Rightarrow x = 15$... The tank will be filled $112\frac{1}{2}$, then the machinist in 30 minutes can produce (x+15) items. 48. D) Let S be the side of the Cube. $\therefore \frac{x+15}{112\frac{1}{2}} = \frac{x}{100}$ \therefore S³ = $\frac{4}{3}\pi r^3$

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