

1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI - 09

### SSC MOCK TEST - 367 (SOLUTION)

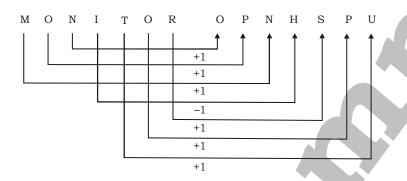
1. (A) As,

$$764 \Rightarrow (7 + 6 + 4) \times 3 = 51$$

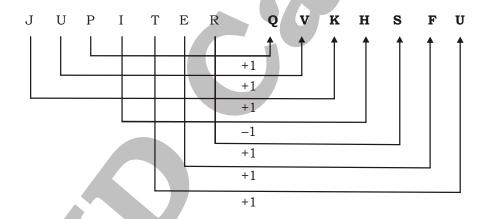
Similarly,

$$876 \Rightarrow (8 + 7 + 6) \times 3 = 63$$

- 2. (D) Cat has Paw, while Horse has Hoof.
- 3. (D) Except 327, others are divisible by 17.
- 4. (B) Except Sun, others are planet.
- 5. (B) As,



Similarly,

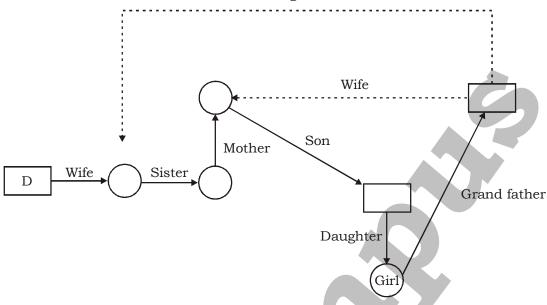


- 6. (C) 19 40 71 112 163 **224**
- 7. (D) R T X F V +2 +4 +8 +16
- 8. (A) As,  $274 + (2 + 7 + 4)^2 = 443$   $443 + (4 + 4 + 3)^2 = 564$ Similarly,  $123 + (1 + 2 + 3)^2 = 159$  $159 + (1 + 5 + 9)^2 = 384$



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9. (A) Daughter



Thus, D's wife is daughter of paternal grandfather of girl.

- 10. (B)  $d\mathbf{k} \text{lm} \mathbf{o} / d\mathbf{k} \text{lm} \mathbf{o} / d\mathbf{k} \text{lm} \mathbf{o}$
- 11. (A)
- 12. (D) In the first row,

$$17 + 19 = 36 \Rightarrow 36 \times (3 \times 6) = 648$$

In the second row,

$$12 + 14 = 26 \Rightarrow 96 \times (9 \times 6) = 312$$

In the third row,

$$16 + 11 = 27 \Rightarrow 27 \times (2 \times 7) = 378$$

13. (C)  $74 + 18 \div 6 \times 3 - 4 + 5 = 111$ 

After changing the numbers,

$$74 + 18 \div 3 \times 6 - 4 + 5 = 111$$

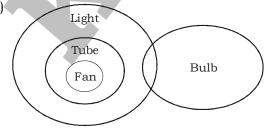
$$74 + 36 - 4 + 5 = 111$$

$$115 - 4 = 111$$
  
 $111 = 111$ 

- 14. (C)
- 15. (A) 3. Buy  $\rightarrow$  2. Rinse  $\rightarrow$  4. Cut  $\rightarrow$  5. Cook  $\rightarrow$  1. Eat
- 16. (B) Order of increasing height will be:

R < S < A < K < M

17. (A)



I. True II. False III. True Hence, both conclusions I and III follow.



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- 18. (A) 19. (B)
- 20. (C) As,  $97 + (9 \times 7) = 160$

$$160 + (1 \times 6 \times 0) = 160$$

Similarly, 
$$63 + (6 \times 3) = 81$$

$$81 + (8 \times 1) = 89$$

21. (A) As,

And,

Similarly,

- 22. (B) 23. (D) 24. (D) 25. (A)
- 28. (C) After the incident there was national and international outrage on a large scale due to which the Government of Punjab was compelled to create a 'Disorder Inquiry Committee'. This committee is also known as the Hunter committee as it was headed by Lord William Hunter, Senator of the College of Justice in Scotland.
- 29. (B) The Great Temple of Abu Simbel was dedicated to the Sun God. A most remarkable feature of the temple was that the rays of the rising sun shone into the temple, so it has been called the 'temple of the rising sun'.
- 32. (B) Plantation is a type of commercial farming. In this type of farming, a single crop is grown on a large area. The plantation has an interface of agriculture and industry. Plantations cover large tracts of land, using capital intensive inputs, with the help of migrant labourers. AH the produce is used as raw material in respective industries. In India, tea, coffee, rubber, sugarcane, banana, cashew, oil plam, coconut, spices etc are important plantation crops.
- 34. (B) The speed of light will be minimum while passing through glass because the optical density of glass is very high .
- 36. (C) Akbar was the first Muslim ruler to coordinate the Haj Pilgrimage at the expense of the state and provide pilgrims with subsidies.
- 39. (A) The 'sphinx' is a mythological animal with the body of a lion and the head of man. Each sphinx was carved out of a single solid stone.
- 40. (B) The Pacific Ocean is the largest and deepest of the world ocean basins. Covering approximately 63 million square miles and containing more than half of the free water on Earth, the Pacific is by far the largest of the world's ocean basins.
- 41. (B) The urban population of the world is growing faster than Its rural population. This is mainly because of Rural-urban migration. Rural-urban migration is the movement of people from the countryside to the city.
- 42. (B) Narain joined with other opposition parties to form the Janata alliance to face Mrs. Gandhi's Congress party. Narain once again stood against her from the Rae Bareli constituency. He defeated her with a margin of more than fifty thousand votes.



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- 43. (D) When a bullet is fired from a gun, the gun exerts a force on the bullet in the forward direction. This is force is called as the action force. The bullet also exerts an equal and opposite force on the gun in the backward direction. Therefore a gun recoils when a bullet is fired from it.
- 44. (C) Sodium thiosulphate Na2S2O3.5H2O is extensively used as 'hypo' in photography because of its ability to dissolve out excess of silver salts in a photographic paper. It is thus used to fix the image on the paper.
- 45. (A) Spleen is called the graveyard of RBCs because after completion of lifespan, RBCs are destroyed in spleen where they are ingested by free macrophages. About 2.5 million of RBCs are destructed in one second.
- 46. (D) Most remote controls send signals using infrared radiation, though some use radio waves instead. In infrared radiation TV and remote control have to be in straight line for functioning while in Radio waves TV can even be controlled from another room.
- 47. (B) The Grammy Award (stylized as GRAMMY, originally called Gramophone Award), or just Grammy, is an award presented by the US Recording Academy to recognize "Outstanding Achievement in the music industry" of the United States.
- 49. (B) As the name implies, a read-only memory(ROM) is a memory unit that performs the read operation only; it does not have a write capability.
- 51. (A) Speed of train relative to man =  $45 + 5 = 50 \text{ km/h} = 50 \times \frac{5}{18} = \frac{250}{18} \text{ m/s}$

Distance covered in 12 sec = Length of faster train =  $\frac{250}{18} \times 12 = \frac{500}{3}$  m

Speed of train =  $45 \times \frac{5}{18} = \frac{25}{2}$  m/s

So, distance covered in 18 sec = Length of train + Length of Platform =  $\frac{25}{2} \times 18 = 225 \,\text{m}$ 

- .. Length of platform =  $225 \frac{500}{3} = \frac{175}{3} = 58\frac{1}{3}$  m
- 52. (B) Downstream Speed of boat =  $\frac{84}{4}$  = 21 kmph

Upstream Speed of boat =  $\frac{84}{6}$  = 14 kmph

Speed of boat in still water =  $\frac{(21+14)}{2}$  = 17.5 kmph

Speed of current =  $\frac{(21-14)}{2}$  = 3.5 kmph

:. Required ratio = 17.5 : 3.5 = 5 : 1

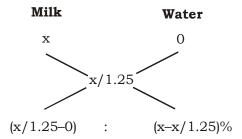


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53. (C) Let the CP of 1 litre milk be = x

The SP of 1 litre milk = x

Profit = 25%



Hence, Ratio of milk to water =  $\left(\frac{x}{1.25}\right)$ :  $\left(\frac{0.25 \, x}{1.25}\right)$  =  $\frac{1}{0.25}$  = 4:1

54. (B) (A + B)'s 1 days work =  $\frac{1}{10}$ 

C's 1 days work =  $\frac{1}{50}$ 

(A + B + C)'s 1 days work = 
$$\left(\frac{1}{10} + \frac{1}{50}\right) = \frac{3}{25}$$
 .....(I)

A's 1 day's work = (B + C)'s 1 day's work = .....(II)

From I and II, we get  $2 \times (A's \ 1 \ day's \ work) = \frac{3}{25}$ 

Therefore, A's 1 day's work =  $\frac{3}{50}$ 

B's 1 day's work = 
$$\left(\frac{1}{10} + \frac{3}{50}\right) = \frac{2}{50} = \frac{1}{50}$$

So, B alone can do the work in 25 days.

55. (B) Let one of the number be  $x \Rightarrow$  the other number is 45 - x.

$$x^2 - (45 - x)^2 = 675$$

$$x^2 - 2025 + 90x - x^2 = 675$$

$$90x = 2700$$

- .. The number are 30 and 15.
- 56. (C) HCF of 1404, 2364 and 2496

$$=$$
 HCF of  $(2364 - 1404, 2496 - 2364)$ 

= HCF = (960, 132) = 12

:. Number of bottles needed = 
$$\frac{1404}{12} + \frac{2364}{12} + \frac{2496}{12}$$

$$= 117 + 197 + 208 = 522$$
 bottles



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57. (D) Given 
$$a - b = 4$$
 and  $a^3 - b^3 = 88$ 

We know, 
$$a^3 - b^3 = (a - b) (a^2 + b^2 + ab)$$

$$88 = 4 \times (a^2 + b^2 + ab)$$

$$(a^2 + b^2 + ab) = 22$$

$$(a^2 + b^2 + 3ab - 2ab) = 22$$

$$(a^2 + b^2 - 2ab + 3ab) = 22$$

$$(a-b)^2 + 3ab = 22$$

58. (D) 
$$\frac{(177^{168} + 19)}{176} = \frac{(177^{168})}{176} + \frac{19}{176}$$

We will first evaluate remainder of  $\frac{(177^{168})}{176}$ 

$$\frac{\left(177^{168}\right)}{176} = \frac{\left(177+1\right)^{168}}{176} = \frac{{}^{\mathrm{n}}\mathrm{C_0}\left(176\right)^{168} + {}^{\mathrm{n}}\mathrm{C_1}\left(176\right)^{167} \dots + {}^{\mathrm{n}}\mathrm{C_{n-1}}\left(176\right) + {}^{\mathrm{n}}\mathrm{C_n}}{176}$$

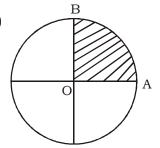
Every term in the expansion is divisible by 176 except the last term i.e. 1.

So, remainder = 
$$\frac{(177^{168})}{176} = 1$$

Now, Remainder = 
$$\frac{19}{176}$$
 = 19

Hence, Remainder when  $(177^{168} + 19)$  is divisible by 176 = 1 + 19 = 20

59. (B)



If the radius of circle be r cm, then Perimeter of quadrant OAB,

$$= OA + \widehat{AB} + OB$$

$$=r+\frac{2\pi r}{4}+r=\frac{\pi r}{2}+2r$$

$$\therefore \frac{\pi r}{2} + 2r = 75$$

$$r = \left(\frac{\pi}{2} + 2\right) = 75$$

$$r = \left(\frac{22}{7 \times 2} + 2\right) = 75$$

$$r = \frac{75 \times 14}{50} = 21 \text{cm}$$

Required area of the peace of paper in the shape of Quadrant of circle =  $\frac{\pi r^2}{4}$ 

$$=\left(\frac{22}{7\times4}\times21\times21\right)$$
 sq.cm. = 346.5 sq.cm.



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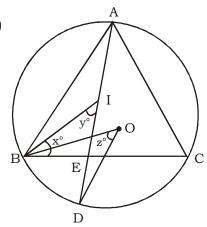
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60. (D) 
$$\frac{5\sin A - 2\cos A}{4\cos A - \frac{5}{7}\sin A} = \frac{\cos A\left(5\frac{\sin A}{\cos A} - 2\right)}{\cos A\left(4 - \frac{5}{7}\frac{\sin A}{\cos A}\right)}$$

$$= \frac{5 \tan A - 2}{4 - \frac{5}{7} \tan A} = \frac{5 \times \frac{21}{20} - 2}{4 - \frac{5}{7} \times \frac{21}{20}} = \frac{\frac{13}{20} \times 5}{\frac{13}{4}} = 1$$

61. (A)



 $\angle BAD = \frac{1}{2} \angle BOD$  (Angle formed by chord at circumference of a circle is half of the angle formed by it at the centre of the circle)

$$\angle BAD = \frac{z}{2}$$
 ....(i)

In ΔABE,

$$\angle$$
EAB +  $\angle$ ABE +  $\angle$ BAE = 180° (Angle sum property of  $\Delta$ )

$$\frac{z}{2} + x^{\circ} + \angle BAE = 180^{\circ}$$
 (: EAB =  $\angle BAD$ )

$$\angle BAE = 180^{\circ} - \frac{z}{2} - x^{\circ}$$
 .....(ii)

As, I is incentre, thus BI is the angle bisector.

$$\angle IBE = \frac{1}{2} \angle ABE$$

$$\angle IBE = \frac{x}{2}$$

Now,  $In \Delta IBE$ ,

 $\angle$ IBE +  $\angle$ BEI +  $\angle$ EIB = 180° (Angle sum property of A)



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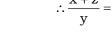
$$\frac{x}{2} + \left(180^{\circ} - \frac{z}{2} - x^{\circ}\right) + y^{\circ} = 180^{\circ} \qquad (\because \angle BEI = \angle BEA)$$

$$(:. \angle BEI = \angle BEA)$$

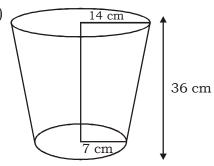
$$y^{\circ} = \frac{x}{2} + \frac{z}{2}$$

$$y^{\circ} = \frac{x+z}{2}$$

$$\therefore \frac{x+z}{v} = 2$$



62. (C)



Volume of bucket = = 
$$\frac{1}{3}\pi h (R^2 + r^2 + Rh)$$

where, 
$$R = 14$$
 cm,  $R = 7$  cm and  $h = 36$  cm

$$= \frac{1}{3} \times \frac{22}{7} \times 36 \left(14^2 + 7^2 + 14 \times 7\right)$$

$$= \frac{1}{3} \times \frac{22}{7} \times 36 (196 + 49 + 98)$$

$$= \frac{1}{3} \times \frac{22}{7} \times 36 \times 343 = 12936 \, \text{cm}^3$$

(B) Pipe A can fill the cistern in 15 minutes 63.

Pipe B can fill the cistern in 18 minutes

Let the capacity of cistern = 90 litres

Pipe A can fill the cistern in 1 minute = 
$$\frac{90}{15}$$
 = 6 litres

Pipe B can fill the cistern in 1 minute =  $\frac{90}{18}$  = 5 litres

Pipe (A + B) can fill the cistern in 3 minutes =  $(6 + 5) \times 3 = 33$  litres Remaining part = 90 - 33 = 57 litres

Time taken by B to fill the remaining cistern =  $\frac{57}{5}$  minutes =  $11\frac{2}{5}$  minutes



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64. (C) Taking 
$$\frac{xy-1}{y} = \frac{yz-1}{z}$$

$$xyz - z = y^2z - y$$

$$y^2z = xyz + y - z$$

Taking 
$$\frac{xy-1}{y} = \frac{xz-1}{x}$$

$$x^2y - x = xyz - y$$

$$x^2y = xyz + x - y$$

Taking 
$$\frac{yz-1}{z} = \frac{xz-1}{x}$$

$$xyz - x = xz^2 - z$$

$$xz^2 = xyz + z - x$$

$$\therefore \frac{x}{z} + \frac{y}{x} + \frac{z}{y} = \frac{x^2y + y^2z + z^2x}{xyz}$$

Substituting from (i), (ii) and (iii)

$$=\frac{xyz+x-y+xyz+y-z+xyz+z-x}{xyz}=\frac{3xyz}{xyz}=3$$

Selling price of 1 litre of milk = ₹ 1

Profit = 
$$20\%$$

Now, cost price of 1 litre milk = 
$$\left(\frac{100}{120} \times 1\right) = \frac{5}{6}$$

By the rule of alligation,

Ratio of milk to water = 
$$\frac{5}{6}$$
:  $\frac{1}{6}$  = 5:1

$$\therefore$$
 Percentage of water in the mixute =  $\left(\frac{1}{6} \times 100\right)\% = 16\frac{2}{3}\%$ 

Amount at the end of 1<sup>st</sup> year = 
$$45000 \times \left(1 + \frac{20}{100}\right)^1 = 45000 \times \frac{120}{100} = ₹ 54000$$

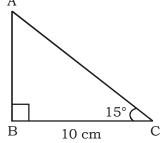
Amount at the end of 2<sup>nd</sup> year = 
$$42000\left(1 + \frac{20}{100}\right) = 42000 \times \frac{120}{100} = ₹50400$$

Amount she has to pay at the end of 
$$3^{rd}$$
 year =  $38400\left(1 + \frac{20}{100}\right) = 38400 \times \frac{120}{100} = ₹46080$ 



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67. (B) A



Let AB is the wall and AC is the ladder.

In  $\triangle ABC$ ,

$$\cos 15^{\circ} = \frac{BC}{AC}$$

$$\cos 15^{\circ} = \frac{10}{AC}$$

$$AC = \frac{10}{\cos 15^{\circ}}$$

Now,  $\cos 15^{\circ} = \cos (45^{\circ} - 30^{\circ})$ 

 $\cos 15^{\circ} = \cos 45^{\circ} \cos 30^{\circ} + \sin 45^{\circ} \sin 30^{\circ}$ 

$$\cos 15^\circ = \left(\frac{1}{\sqrt{2}} \times \frac{\sqrt{3}}{2} + \frac{1}{\sqrt{2}} \times \frac{1}{2}\right)$$

$$\cos 15^\circ = \frac{\sqrt{3}}{2\sqrt{2}} + \frac{1}{2\sqrt{2}} = \frac{\sqrt{3} + 1}{2\sqrt{2}}$$

$$AC = \frac{10}{\frac{\sqrt{3}+1}{2\sqrt{2}}} = \frac{20\sqrt{2}}{\sqrt{3}+1} \times \frac{\sqrt{3}-1}{\sqrt{3}-1}$$

$$= \frac{20\sqrt{6} - 20\sqrt{2}}{2} = \frac{20(\sqrt{6} - \sqrt{2})}{2} = 10(\sqrt{6} - \sqrt{2}) \text{m}$$

68.

Slope of line passing through the points A (5, -3) and B (-2, 1)

$$=\frac{\hat{\mathbf{y}}_2-\hat{\mathbf{y}}_1}{\hat{\mathbf{x}}_2-\hat{\mathbf{x}}_1}=\frac{1-\left(-3\right)}{-2-5}=\frac{1+3}{-7}=\frac{-4}{7}$$

69. (D) The number divides 399, 434 and 537 leaving the remainder 8, 9 and 10.

So, that number will divede (399 - 8), (434 - 9) and (537 - 10) completely.

Now, the greatest number that will divide 391, 425 and 527 completely is the HCF of these numbers.

HCF of 391, 425 and 527

$$391 = 17 \times 23$$

$$425 = 5 \times 5 \times 17$$

$$527 = 17 \times 31$$



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70. (A) A invest  $\frac{1}{3}^{rd}$  of capital.

B invest  $\frac{1}{5}$  of capital.

C invest =  $1 - \left(\frac{1}{3} + \frac{1}{5}\right) = \frac{7}{15}$  of capital

Ratio of their profit =  $\frac{1}{3} \times \frac{1}{3} : \frac{1}{5} \times \frac{1}{5} : 1 \times \frac{7}{15} = \frac{1}{9} : \frac{7}{15} = 25 : 9 : 105$ 

Total profit = ₹ 25020

∴ Profit of B = 
$$\frac{25020}{(9+25+105)} \times 25 = \frac{25020}{139} \times 25 = ₹4500$$

71. (D)  $a^4 + a^2b^2 + b^4 = 64$ 

$$(a^2) + (b^2)^2 + 2a^2b^2 - a^2b^2 = 64$$

$$(a^2 + b^2)^2 - (ab)^2 = 64$$

$$(a^2 - ab + b^2) (a^2 + ab + b^2) = 64$$

$$[\because \mathbf{x}^2 - \mathbf{y}^2 = (\mathbf{x} + \mathbf{y}) (\mathbf{x} - \mathbf{y})]$$

$$4 \times (a^2 + ab + b^2) = 64$$

$$a^2 + ab + b^2 = \frac{64}{4} = 16$$

$$a^2 - ab + b^2 = 4$$

Subtract equation (ii) from (i),

$$a^{2} + ab + b^{2} = 16$$
  
 $a^{2} - ab + b^{2} = 4$ 

$$a^2 - ab + b^2 = 4$$

$$ab = 20$$

72. (B) Total amount of expenditure = 100%

Expenditure on transport = 12.5%

Required answer = 
$$\frac{100}{12.5}$$
 = 8 times

(C) Total expenditure incurred on salary and interest = (20 + 17.5)% = 37.5%

Total expenditure on infrastructure and transport = (20 + 12.5)% = 32.5%

Required ratio = (37.5:32.5) = 15:13

(B) Percentage of expenditure on salary = 20%

20% = 2.8 crores

$$100\% = \left(\frac{2.8}{20} \times 100\right) \text{crores} = 14 \text{ crores}$$

Difference between expenditure incurred on advertisement and tax = (15 - 10)% = 5%100% = 14 crores

$$5\% = \left(\frac{140000000}{100} \times 5\right) = ₹ 70 \text{ lakhs}$$

(B) Required % =  $\left(\frac{20-5}{20} \times 100\right)$ % =  $\left(\frac{15}{20} \times 100\right)$ % = 75%



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### MEANINGS IN ALPHABETICAL ORDER

Autonomy the right or condition of self-government स्वशासन Breed a stock of animals or plants within a नस्ल

species having a distinctive appearance

Broach एक संवेदनशील विषय पर raise (a sensitive or difficult subject) for

चर्चा छेड देना

discussion

Broad विस्तृत having an ample distance from side to side;

wide

Constituent a component part of something

उपाधि प्रदान करना Confer grant or bestow

(a title, degree, benefit, or right)

Confide गुप्त बात कहना tell someone about a secret or private

matter

सीमित Confined limited to a certain extent

स्वीकार करना Concede admit that something is true or valid असंगत Desultory lacking a plan, purpose, or enthusiasm

गोबर the excrement of animals Dung

Eliminate completely remove or get rid of something उन्मूलन करना Exemplary अनुकरणीय serving as a desirable model

मल-मूत्र संबंधी Faecal relating to the solid waste passed out of

the body of a human or animal through

the bowels

pretend to be affected by (a feeling, state, Feign बहाना करना

or injury)

Hazard खतरा a danger or risk Immaculate perfectly clean, neat, or tidy बेदाग

परिमाण, मात्रा Magnitude the great size or extent of something

Parity the state or condition of being equal समता Parasites an organism that lives in or on another परजीवी

organism (its host) and benefits by deriving

nutrients at the host's expense.

एक जीवाणु, वायरस या Pathogens a bacterium, virus, or other microorganism

that can cause disease

अन्य सुक्ष्मजीव जिनसे बीमारी फैलती है

किसी गूढ़ बात से परिचित Privy informed of something secret or private

Sprout अंकुर a shoot of a plant कीटाणुरहित Sterilised something made free from bacteria or

other living microorganisms

Valour great courage in the face of danger साहस Venerable accorded a great deal of respect आदरणीय Visceral आंत संबंधी of or relating to the viscera



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### SSC MOCK TEST - 367 (ANSWER KEY)

1.	(A)	26. (B)
2.	(D)	27. (C)
3.	(D)	28. (C)
4.	(B)	29. (B)
5.	(B)	30. (A)
6.	(C)	31. (A)
7.	(D)	32. (B)
8.	(A)	33. (D)
9.	(A)	34. (B)
10.	(B)	35. (B)
11.	(A)	36. (C)
12.	(D)	37. (B)
13.	(C)	38. (C)
14.	(C)	39. (A)
15.	(A)	40. (B)
16. 17.	(B)	41. (B) 42. (B)
18.	(A) (A)	
19.	• •	43. (D) 44. (C)
20.	(B) (C)	44. (C) 45. (A)
21.	(A)	46. (D)
22.	(B)	47. (B)
23.	(D)	48. (D)
24.	(D)	49. (B)
25.	(A)	50. (C)
40.	( <del>* *</del> )	00. (0)

		51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 70. 71. 72. 73.	(A) (B) (C) (B) (B) (C) (D) (A) (B) (C) (D) (A) (B) (C) (D) (A) (B) (C) (C) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	
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1	0.	$(\mathbf{C})$
7	79.	(B)
8	30.	(D)
8	31.	(A)
8	32.	(A)
8	33.	(A)
8	34.	(B)
	35.	(B)
	36.	(A)
	37.	(D)
8	38.	(B)
	39.	(D)
	90.	(C)
	91.	(A)
	2.	(C)
	93.	(D)
	94.	(C)
	95.	(D)
	96.	(D)
	90. 97.	(A)
_	97. 98.	
_	90. 99.	(B)
		(C)
-	100	. (A)

76. (B) 77.

- 76. (B) Replace 'his' by 'their' as it comes for its antecedent 'those players'.
- 77. (D) No error
- 79. (B) 'Brood over' means 'to worry anxiously or be despondent about something or someone'.
- 86. (A) Change 'the riches' into 'the rich'. 'Riches' means 'money'.
- 87. (D) No improvement
- 90. (B) The correct spelling of 'Beleive' is 'Believe'.
- The correct spelling of 'Anearobic' is 'Anaerobic'.