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# SSC MOCK TEST – 212 (SOLUTION)

1. (A) Kathak is the folk dance of Uttar Pradesh, while Rouf is the flok dance of Jammu and Kashmir
2. (C) As, 9 × 2 – 4 = 14
   Similarly, 15 × 2 – 4 = 26
3. (C)

| M | U | M | B | A | I |
|---|---|---|---|---|---|
| -1 | -1 | -1 | -1 | -1 | -1 |
| L | T | L | A | Z | H |

| D | E | L | H | I |
|---|---|---|---|---|
| -1 | -1 | -1 | -1 | -1 |
| C | D | K | G | H |

4. (B) In all other pairs, second is the name given to artificial rearing of the first.
5. (B) In all other pairs, second number is 9 more, than the first.
6. (B) All except Instruct denote learning process.
7. (B)
8. (A) ac<u>a</u>c/ab<u>a</u>b/aca<u>c</u>/ aba<u>b</u>/acac.
   Thus the pattern acac/abab is repeated
9. (C) **1st letter:**

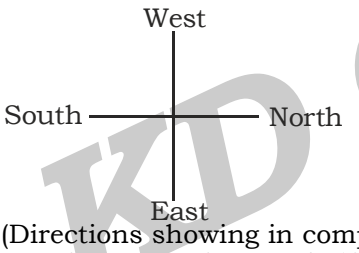
   $K \xrightarrow{-2} I \xrightarrow{-2} G \xrightarrow{-2} E \xrightarrow{-2} \text{(C)}$

   **2nd letter:**

   $M \xrightarrow{+3} P \xrightarrow{+3} S \xrightarrow{+3} V \xrightarrow{+3} \text{(Y)}$

   **Number**

   $5 \xrightarrow{+3} 8 \xrightarrow{+3} 11 \xrightarrow{+3} 14 \xrightarrow{+3} \text{(17)}$
10. (A)




(Directions showing in compass)
Man has to go the **North**, if the wishes to move towards the East.

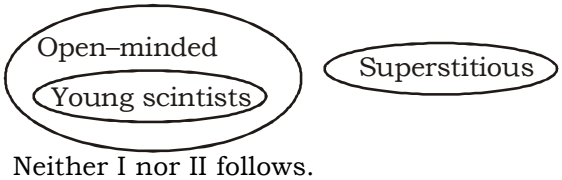
11. (D) 563 , 647 , 479 , 815 , **143**
    +84 (–84×2) +(84×2²) –(84×2⁴)
12. (B)

    $U \xrightarrow{-2} \text{(S)} \xrightarrow{-4} O \xrightarrow{-2} M \xrightarrow{-4} I$

    P

    $P \xrightarrow{-8} \text{(H)} \xrightarrow{-4} D \xrightarrow{-2} B \xrightarrow{-1} A$

    $I \xrightarrow{+1} \text{(J)} \xrightarrow{+6} P \xrightarrow{+1} Q \xrightarrow{+6} W$
13. (A) G H I **M N O** T U V B C D
    +6 +7 +8
14. (C)
15. (D)
16. (D) As, 99 × 15 = 1485
    and, 32 × 17 = 527
    Similarly, 91 × 18 = 1638
17. (D) As, 18 × 5 = 90
    and, 13 × 11 = 143
    Similarly, 7 × 5 = 35
18. (D) As, 9 + 8 + 7 = 14
    and, 4 + 7 + 3 = 14
    Similarly, 2 + 1 + 9 = 12
19. (C)
20. (C)




Neither I nor II follows.

21. (D)
22. (A)
23. (D)
24. (B) Gaurav $\xrightarrow{+}$ wife $\xrightarrow{-}$ sister $\xrightarrow{-}$ boy
25. (D)
29. (B) Pollywood is a Panjabi Cinema industry in India and Pakistan.
    Kollywood refers to Tamil Cinema.
    Mollywood refers to Malayalam Cinema.
30. (C) The National Safety Council (NSC) is a self-supporting non-profit autonomous society, set up by the Ministry of Labour and Employment, Govt. of India (GoI) on 4th March 1966. Its aim is to strengthen a national movement on Safety, Health & Environment (SHE) to prevent and mitigate loss of life, human suffering & economic losses and provide support services. It is in news because the 2016 NSCI Safety Awards will be presented by the Minister of State (Independent Charge), Labour & Employment Bandaru Dattatreya on April 20, 2017 in New Delhi. The NSCI Safety Awards are coveted national level awards in the field of Workplace Safety, Health and Environment. The headquarters of the NSC is located in Mumbai, Maharashtra.
32. (A) Doppler effect – An increase/decrease in the frequency of sound, light, or other wave as the source and observer move towards each other.
    Zeeman effect – The splitting of a spectrum line into several components by the application of a magnetic field.
    Photoelectric effect – The emission of electrons or other free carriers when light hits a material. Electrons emitted in this manner can be called Photoelectrons.

33. (A) 4th Feb – World Cancer Day.

34. (B) Choronical order of Mugal Emperors- Babar, Humayun, Akbar, Jahangir, Shah Jahan, Aurangzeb, Bahadur Shah, Jahandar Shah, Farrukhsiyar, Rafi ud-Darajat, Shah Jahan II, Muhammad Shah, Ahmad Shah Bahadur, Alamgir II, Shah Alam, Akbar Shah II, Bahadur Shah II.

36. (A)

| **Books** | : | **Author** |
|---|---|---|
| 'A Wasted Hour' | : | Jeffrey Archer |
| 'Two (a Novel)' | : | Gulzar |
| 'Hit Refresh' | : | Satya Nadella. |

40. (A) The Government of India Act 1919 was passed to expand participation of Indians in the Government of India. India Independence Act 1947 was an Act passed by the Parliament of the UK that divided the British India into two new independent dominions of India and Pakistan. The act came to know as 3 June Plan or Mountbatten plan.

43. (C) Public account – Article 266(2)
Consolidated account _ Article 266(1)
Contingency fund – Article 267(1)

45. (D) Sylvain Arend – Comet C/1956$R_1$
Joseph Asprook – Carter As book all the moon and planet (2157) Ashbrook.
Edmin Hubble – Nebulae

48. (A)

| **Boundary Line** | | **Country** |
|---|---|---|
| Mannerheim Line | - | Russia and Finland |
| Maginot Line | - | France and Germany |
| Seigfrid Line | - | France and Germany |

50. (C)

| **Folkdance** | | **State** |
|---|---|---|
| Lezim | : | Maharashtra |
| Puliyattam | : | Tamil Nadu |
| Dappu | : | Andhra Pradesh |

51. (A) A.T.Q,

$33\text{ years} \xrightarrow[\text{After 4 years}]{} 37\text{ years}$

$37\text{ years} \xrightarrow{\text{on death of 64 years}} 37 - \frac{64}{8}$

$29\text{ years} \xrightarrow[3\text{ years}]{\text{After}} 32\text{ year}$

$32\text{ years} \xrightarrow[\text{on death of 72 years}]{} 32 - \frac{72}{8}$

$23\text{ years} \xrightarrow[3\text{ years}]{\text{After}} 26\text{ years}$

52. (D) 656656 $\longrightarrow$ (656000 + 656)
656 (1000+1)
656 × 1001
656 × 7 × 11 × 13
Is divisible by 1001

53. (B) A.T.Q,
Time Efficiency

$$\frac{A}{B} = \frac{140}{100} = \frac{7}{5} = \frac{5}{7}\times\frac{5}{7}$$

$$\frac{B}{C} = \frac{80}{100} = \frac{4}{5} = \frac{5}{7}\times\frac{7}{7}$$

So, time
A : B : C
25 : 35 : 28

3 units $\longrightarrow$ 6 days

35 units $\longrightarrow$ 70 days

Hence, B will complete this work in 70 days.

54. (A) Put $\beta = 0$
$2\sin^2\beta + 4\cos(\alpha+\beta)\times\sin\alpha.\sin\beta + \cos2(\alpha+\beta)$
$\Rightarrow 0 + 0 + \cos2\alpha$
$\Rightarrow \cos2\alpha$

55. (C) Let the number of workers be $x$.
A.T.Q.,
$\Rightarrow x \times 8500 = 7 \times 10000 + (x-7)\,7800$
$\Rightarrow 85x = 700 + 78\,(x-7)$
$\Rightarrow 85x - 78x = 700 - 546$
$\Rightarrow 7x = 154$

$$\Rightarrow x = \frac{154}{7} = 22$$

56. (C) A.T.Q,
$3^x - 3^{x-1} = 1458$

$$\Rightarrow 3^x - \frac{3^x}{3} = 1458$$

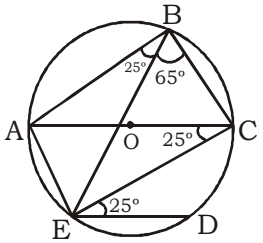
$$\Rightarrow 3^x\left(1-\frac{1}{3}\right) = 1458$$

$$\Rightarrow 3^x \times \frac{2}{3} = 1458 \quad \Rightarrow 3^x = 2187$$

$\Rightarrow 3^x = 3^7 \quad \Rightarrow x = 7$

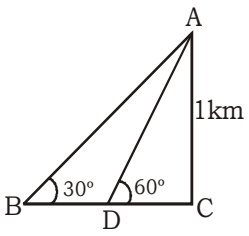
57. (A) $(823)^{933!} \times (777)^{223!} \times (838)^{123!}$
$3^4 \times 7^4 \times 8^4 = 1 \times 1 \times 6 = 6$

58. (D)




AC is the diameter of circle
So, $\angle ABC = 90°$
$\angle EBA = 90° - 65° = 25°$
$\angle ABE = \angle ACE = 25°$ (angle in the same segment)
AC || ED
$\therefore$ So, $\angle ACE = \angle CED = 25°$

59. (D)




AC = 1 km
In ΔADC

$\tan 60^\circ = \frac{1}{DC} \Rightarrow DC = \frac{1}{\sqrt{3}}$ ...(i)

Now, In ΔABC

$\tan 30^\circ = \frac{1}{BD+DC} \Rightarrow BD + DC = \sqrt{3}$

and, $BD = \sqrt{3} - \frac{1}{\sqrt{3}} = \frac{2}{\sqrt{3}}$

Then the speed of aeroplane

$= \frac{2 \times 3600}{\sqrt{3} \times 10} = 240\sqrt{3}$ km/hr

60. (A) A.T.Q,

$\frac{B}{A} = \frac{3}{4}, \frac{B}{C} = \frac{6}{5}$

| | A | : | B | : | C |
|---|---|---|---|---|---|
| | 8 | : | 6 | : | 5 |
| Before → | 800 | : | 600 | : | 500 |
| | +25% ↓ | | -10% ↓ | | +20% ↓ |
| After increment | 1000 | | 540 | | 600 |

Total income before = 1900 units
Total income after increment = 2140 units

Increment = $\frac{2140-1900}{1900} \times 100$
= 12.63% = 13%

61. (A) ATQ,

$12\frac{1}{2}\% = \frac{1}{8}\%, 6\frac{1}{4}\%, = \frac{1}{16}$

Let, total amount borrowed 128 units

| | 128 | |
|---|---|---|
| 1st year interest | 16 | |
| 2nd year interest | 8 | 1 |

1 unit → ₹ 360
128 units → ₹ 46080

62. (B) A.T.Q,

milk
Vessels A
40 litres

water
Vessels B
22 litres

8 litres mixture taken out

Water = 22 litres
Milk = 8 litres
W : M = 22 : 8 = 11 : 4
Step – II
When 6 litres milk is taken out from vessels B
15 units = 6 litres

4 units = $4 \times \frac{6}{15} = \frac{8}{5}$ litres

11 units = $11 \times \frac{6}{15} = \frac{22}{5}$ litres

Now, total milk in vessels,

$A = 32 + \frac{8}{5} = \frac{168}{5}$

Remaining water in vessels B = $22 - \frac{22}{5}$

$= 22 \times \frac{4}{5}$

Required ratio = $\frac{\frac{168}{5}}{22 \times \frac{4}{5}} = 21 : 11$

63. (D) A.T.Q,

$25\% = \frac{1}{4}$

Let CP = 16 units
Profit = 25%
S.P = 20 units
Profit = 4 units
If profit is calculated on S.P 25% of 20 profit = 5 units
Profit on CP and Profit on SP is 1 unit more.
Now, 5% of 16 = 0.8
Total profit is 1unit more
Hence,
5% of 16 + 0.2

0.2 ⟶ ₹ 80

16 units ⟶ $\frac{80 \times 16}{0.2}$ = ₹ 6400

64. (D) ATQ = $\begin{matrix} 8 \leftarrow \text{S.I} \\ 25 \leftarrow \text{SUM} \end{matrix}$

Time = $\frac{R}{2}$, Rate = R

Now, $8 = \frac{25 \times R \times R}{100 \times 2} = \left[\text{SI} = \frac{P \times R \times T}{100}\right]$

$\Rightarrow 8 = \frac{R^2}{4 \times 2} \Rightarrow 64 = R^2$

$\Rightarrow$ R = 8%

65. (D) Distance travelled by driver in 2 hours

$= 300 \times \frac{40}{100}$ = 120 km

Distance to be covered in 2 hours
= 300 – 120 = 180 km

Required speed = $\frac{180}{2}$ = 90 km/h

Required difference = $90 - \frac{120}{2}$

= 30 km/hr

66. (C) Diagonal of cube will be equal to diameter of sphere,

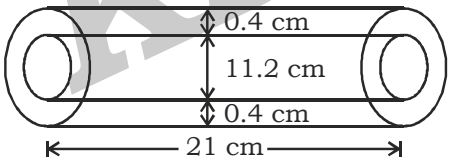
$\sqrt{3}a = 2 \times r$

$\sqrt{3}a = 2 \times 6\sqrt{3}$

$a$ = 12

Surface area = $6a^2$ = 6 × 12 × 12
= 864cm$^2$

67. (C)




Volume of metal = External volume of cylindrical tube – Internal volume of cylindrical tube

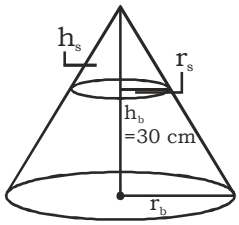
$= \pi(r_{ex})^2 h - \pi(r_{in})^2 h = \pi h\{(r_{ex})^2 - (r_{in})^2\}$

$= \pi h\left\{\left(\frac{12}{2}\right)^2 - \left(\frac{11.2}{2}\right)^2\right\}$

$= \frac{22}{7} \times 21 \times (36 - 31.36)$

= 22 × 3 × 4.64 = 306.24 cm$^3$

68. (D)




here, $\left[\because \frac{r_b}{r_s} = \frac{h_b}{r_s}\right]$

Volume of smaller cone = $\frac{\text{vol. of bigger cone}}{27}$

i.e. $\frac{1}{3}\pi(r_s)^2(h_s) = \frac{\frac{1}{3}\pi(r_b)^2(h_b)}{27}$

or, $(r_s)^2(h_s) = \frac{(r_b)^2(h_b)}{27}$

$\Rightarrow \frac{(r_b)^2(h_b)}{(r_s)^2(h_s)} = 27$

or, $\frac{r_b \times r_b \times h_b}{r_s \times r_s \times h_s} = \frac{3 \times 3 \times 3}{1 \times 1 \times 1}$

or, $\frac{h_b}{h_s} = \frac{3}{1} \Rightarrow h_s = \frac{h_b}{3} = \frac{30}{3}$ = 10 cm

$\Rightarrow$ The required height above the base,
= (30 – 10) cm = 20 cm

69. (C) $\left(\sqrt[3]{3.5} + \sqrt[3]{2.5}\right)\left\{\left(\sqrt[3]{3.5}\right)^2 - \sqrt[3]{8.75} + \left(\sqrt[3]{2.5}\right)^2\right\}$

$= \left(\sqrt[3]{3.5}\right)^3 + \left(\sqrt[3]{2.5}\right)^3$

[by using $(a + b)(a^2 - ab + b^2) = a^3 + b^3$]

= 3.5 + 2.5 = 6

70. (A) ATQ,

$\left(\frac{1}{2}\right)^k = \sqrt{3} \Rightarrow 2^{-k} = 3^{1/2}$ ...(i)

$\left(\frac{1}{3}\right)^m = \sqrt{2} \Rightarrow 3^{-m} = 2^{1/2}$ ...(ii)

Multiplying eq. (i) and (ii)

$2^{-k}.3^{-m} = 3^{1/2}.2^{1/2}$

Comparing powers

$m = k = -\frac{1}{2}$, then $\frac{mk}{2} = \frac{1}{8}$

71. (C) $\tan\alpha + 2\tan 2\alpha + 4\tan 4\alpha + \frac{8(1-\tan^2 4\alpha)}{2\tan 4\alpha}$

$\left(\because \cot 2\theta = \frac{1-\tan^2\theta}{2\tan\theta}\right)$

$= \tan\alpha + 2\tan 2\alpha + \frac{8\tan^2 4\alpha + 8 - 8\tan^2\alpha}{2\tan 4\alpha}$

$= \tan\alpha + 2\tan 2\alpha + \frac{4}{\tan 4\alpha}$

$= \tan\alpha + 2\tan 2\alpha + \frac{4(1-\tan^2 2a)}{2\tan 2a}$

$= \frac{1}{\tan\alpha} = \cot\alpha$

72. (A) Percentage of students in B. Tech. = 11%
Percentage of students in M. Teach. = 7%
∴ Required percentage

$= \frac{11-7}{7}\times 100\%$

$= \frac{4}{7}\times 100 = 57\%$

73. (A) Number of students in B.A. = 24% of 11200 = 2688
Since, 25% of them are girls, therefore, number of boys in B.A. = 75% of 2688 = 2016
Which is equal to the number of students in M.Sc. because 18% of 11200 is 2016.

74. (B) Total number of students in M.Sc., B. Tech. and MBA together = (18 + 11 + 17)% of 11200 = 46^ of 11200
Total number of students in B. Sc., M. Tech. and B.A. together
= (23 + 7 + 24)% of 11200
= 54% of 11200
∴ Required difference
= 54% of 11200 – 46% of 11200
= 8% of 11200
= 896

75. (C) Average number of students in B. Tech., M. Tech. and B.A. together

$= \frac{\text{Total number of students in these courses}}{\text{Number of courses}}$

$= \frac{(11+7+24)\% \text{ of } 11200}{3}$

= 14$ of 11200 = 1568

# MEANINGS IN ALPHABETICAL ORDER

| Word | Meaning in English | Meaning in Hindi |
|---|---|---|
| Accentuate | to make more noticeable | प्रमुख बनाना |
| Accent | a distinctive way of pronouncing a language | उच्चारण |
| Devalue | to cause to seem or to be less valuable or important | अवमूल्यन |
| Dismal | very bad or poor | निराशाजनक |
| Impracticable | Incapable of being practised | अव्यवहारिक |
| Inexcusable | that which cannot be excused | अक्षम्य |
| Insurrection | rising in arms against an established government | बगावत |
| Lurid | unpleasantly bright in colour | चमकदार |
| Meticulous | very careful about doing something in an extremely accurate and exact way | मेहनती |
| Methodical | done by using a careful and organized procedure | व्यवस्थित |
| Mitigate | to make less severe or pain | कम |
| Mild | gentle in nature or behavior | सौम्य |
| Murky | very dark or foggy | उदास |
| Painstaking | showing or done with great care and effort | श्रमसाध्य |
| Plagiarism | The practice of borrowing words and ideas from other authors and using them as one's own; literary theft. | साहित्यिक चोरी |
| Prodigy | A child with unusual or remarkable talent. | प्रतिभा संपन्न बालक |
| Promiscuous | Having a lot of different sexual partners. | अति कामुक |
| Sharpen | to make sharp or sharper | तेज |
| Unnerve | to cause to lose confidence, courage, or self-control | हतोत्साह |

# SSC MOCK TEST - 212 (ANSWER KEY)

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



76. (D) The sentence is grammatically and contextually correct.

77. (B) 'Attacked on him' is the incorrect form of phrasal verb that needs to be replaced with 'Attacked him' to make the sentence correct. This is because; 'Attack' is not followed by any preposition.
Thus, the correct sentence would be, 'That Brutus, who was his trusted friend had attacked him caused heartbreak to Julius Caesar'.

78. (B) 'Prefer' is followed by the gerund form of the verb. Thus, 'spend' needs to be replaced with 'spending' to make the sentence grammatically correct. Thus, the correct sentence would be, 'Though he is a gifted comedian, he prefers spending his spare time watching horror movies.

86. (A) The phrase “cook the books” means “alter facts or figures dishonestly or illegally.” It matches option A. Hence option A is correct.

87. (C) The phrase “change your tune” means “express a very different opinion or behave in a very different way.” It matches option C. Hence option C is correct.

88. (B) Replace 'have been doing' with 'had been doing'.

89. (A) Replace 'student' with 'students'.

***Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts. Join the group and you may also share your suggestions and experience of Sunday Mock Test.***

***Note:- If you face any problem regarding result or marks scored, please contact 9313111777***