## SSC MOCK TEST - 237 (SOLUTION)

1. (B) A manifesto lists all the jobs to be undertaken by a party after election.
Agenda list all the issues to be discussed at a meeting.
2. (D) $(5.5)^{2}=30.25$
$(11.0)^{2}=121.00$
3. (A)

4. (C) Bulb is an item while all others are phenomena.
5. (B) In the number pair 483-15, both the numbers are multiples of 3 .
$\frac{483}{3}=161 ; \frac{15}{3}=5$
6. (C)

7. (A)

8. (A) As, PUNISHED $=16+21+14+9+19+$ $8+5+4=96 \xrightarrow{\times 3} 288$
and TAILOR $=20+1+9+12+15+18=$ 75 $\xrightarrow{\times 3}$ 225
Similarly, RELEASED $=18+5+12+5+$
$1+19+5+4=69$ $\qquad$ 207
9. (B)

10. (C) Y $\qquad$ $\xrightarrow{-5}$ N $\qquad$ J $\qquad$ $\xrightarrow{-2} \mathbf{E}$
11. (C) Only son of woman's grandfather
= woman's father
man's brother's father = man's father
So man's father is woman's father. Hence woman is a sister of man.
12. (A) As, $12 \times 13=156,15 \times 13=195$

Similarly, $14 \times 1 \mathbf{1}=154$
13. (B) abbbbc/abbbc/abbbc/abbbc
14. (B) 19
15. (C) Musical toys $=14+28=42$
16. (A)
17. (C)


In $\triangle \mathrm{ABF}$
$A B=\sqrt{(150)^{2}+(80)^{2}}$
$A B=\sqrt{22500+6400}=\sqrt{28900}=170 \mathrm{~m}$
18. (B)

Trees Flowers Pencil Table
Conclusion: None follows.
19. (C)

20. (B) In this question reflection works as water image


In this time 9:50 the both hand of clock are lies between 6 to 12 clockwise. Hence we subtract that time from 17 : 90
$17: 90-9: 50=8: 40$
21. (A)
22. (C)
23. (C) Let Johny's age $=x$ years

Hari's age $=2 x$ years
and Rahul's age $=(x-3)$ years
ATQ.,
$2 x=5(x-3) \Rightarrow 3 x=15 \Rightarrow x=5$
Hence Johny's age $=5$ years
24. (C)
25. (D)
26. (B) Two times Nobel Prize Awardees John Bardeen (Physics), Frederick Sanger (Chemistry), Marie Curie (Physics and Chemistry) and Linus Pauling (Chemistry and Peace).
27. (B) Franz Wegner intoduced the Lattice Gange Theory.
Quantum Chromodynamics Theory was introduced by Harald Fritzsch and Heinrich Leutwyler, together with Murrey Gell-Mann.
29. (A) Minority Affairs - Mukhtar Abbas Naqvi
Social Justice and - Thawar Chand Enpowerment Gehlot
Petroleum and - Dharmendra Gas

Pradhan
33. (B) Hpungan Pass - connects Arunachal Pradesh with Myanmar
Chankan Pass - connects Arunachal Pradesh with Myanmar
Kumjawng Pass - connects Arunachal Pradesh with Myanmar
34. (A) Bishnoi movement was started by the Environmentalist Amrita Devi and other village men in 1730 to save the villages sacred trees and protect the forest from deforestation.
35. (A) Budget deficit = total expenditure - total receipts.
Revenue deficit $=$ revenue expenditure - revenue receipts.

Fiscal Deficit $=$ total expenditure - total receipts except borrowings.
Primary Deficit $=$ Fiscal deficitinterest payments.
39. (D) Progesterone is an endogenous steroid and sex hormone involved in the menstrual cycle, pregnancy, and embryogenesis of humans and other species.
Prolactin is a hormone that is secreted by the pituitary gland in the brain which is responsible for the making of milk by alveoli in breast. This hormone rises when the baby suckles the breast.
Estrogen, is the primary female sex hormone. It is responsible for the development and regulation of the female reproductive system and secondary sex characteristics.
40. (B) Paleontology - study of animal and plant fossils.
Ichthyology - branch of zoology that deals
with fishes.
Entomology - study of insects.
42. (D) Metformin, is the first - line medication for the treatment of type 2 diabetes. It is also used in the treatment of polycystic ovary syndrome.
Diazepam is used to treat anxiety disorders, alcohol withdrawal symptoms, or muscle spasms.
Latanoprost, is a medication used to treat increased pressure inside the eye.
43. (D) Viscometer - viscosity of a fluid
45. (D) Ram Vilas Paswan - Cabinet Minister of Consumer Affairs, Food and Public Distribution
Sadananda Gowda - Minister of Chemicals and Fertilizers
Nitin Jairam Gadkari - Minister for Road Transport \& Highways of and Shipping Ministry of Micro, Small and Medium Enterprises
Narendra Singh Tomar - Minister of Agriculture \& Farmers Welfare and Minister of Rural Development
46. (B) Protein Day - 27 February
47. (A) Ctrl+Tab - to switch between open tabs in a browser
CTRL + SHIFT + TAB - move right to left one tab
49. (A) Disaster Management - 108

Services
Women Helpline - 181
( Domestic Abuse )
Women Helpline - 1091
51. (D) ATQ,
$16 a^{4}+3 a^{2} b^{2}+81 b^{4}=91$
$\Rightarrow\left(4 a^{2}+6 a b+9 b^{2}\right)\left(4 a^{2}-6 a b+9 b^{2}\right)=91$
$\Rightarrow 4 a^{2}+6 a b+9 b^{2}=\frac{91}{13}$
$\Rightarrow 4 a^{2}+6 a b+9 b^{2}=7$
$\Rightarrow 4 a^{2}-6 a b+9 b^{2}=13$
From equation (i) and (ii)
$12 a b=-6$
$\Rightarrow 3 a b=\frac{-6}{4}$
$3 a b=\frac{-3}{2}$
Hennce, value of $3 a b=\frac{-3}{2}$
52. (A) Using masspoint theorem

$\mathrm{AG}=4$ units
GD $=1$ unit
$\frac{\mathrm{AG}}{\mathrm{GD}}=\frac{4}{1}$
53. (A) ATQ,

$$
\begin{aligned}
& \frac{10 \times 71.7+11 \times 42+6 x+4 x+5 x}{24}=56 \\
& \Rightarrow 15 x=24 \times 56-717-462 \\
& \Rightarrow x=\frac{165}{15} \\
& \Rightarrow x=11
\end{aligned}
$$

Required Avg. $=\frac{6 x+5 x}{2}$
$=\frac{11 \times 11}{2}$
$=60.5$
54. (A) $5 \sin \theta=4$
$\sin \theta=\frac{4}{5}$

$=\frac{\frac{5}{3}+3}{\frac{16}{3}-3}=\frac{14}{7}=2$
55. (C) ATQ,

$$
\begin{aligned}
& 6 \times \frac{\sqrt{3}}{4} a^{2}=2400 \sqrt{3} \\
& \begin{aligned}
& \Rightarrow a=40 \text { metres } \\
& \text { Perimeter of hexagon }=6 \times 40 \\
&=240 \text { meters }
\end{aligned}
\end{aligned}
$$

The total cost $=240 \times 16.80$
$=4032$
56. (D) ATQ,
$(4 m+6 w) \times 5=(3 m+4 w) \times 7$
$\Rightarrow 20 \mathrm{~m}+30 \mathrm{w}=21 \mathrm{~m}+28 \mathrm{w}$
$\Rightarrow \mathrm{m}=2 \mathrm{w}$
$\Rightarrow \frac{\mathrm{m}}{\mathrm{w}}=\frac{2}{1}$
Total work $=(4 \mathrm{~m}+6 \mathrm{w}) \times 5$
$=(4 \times 2+6 \times 1) \times 5$
$=70$ units
Now,
$(2 \mathrm{~m}+25 \mathrm{w}) \times 5=70 \times \frac{5}{2}$
$\Rightarrow 2 \mathrm{~m}+25=35$
$\mathrm{m}=5 \mathrm{men}$
Hence, 5 men are required to Assist the women.
57. (B) ATQ,

SP : Profit
15,200 $\times .77: 2,660$
22 : 5
Profit $\%=\frac{5}{17} \times 100$
= 29.41\%
58. (D)


In $\triangle \mathrm{AEC}$
$\angle \mathrm{A}=180^{\circ}-\left(90^{\circ}+20^{\circ}\right)$
$=70^{\circ}$
Now, In $\triangle \mathrm{ABD}$
$\angle \mathrm{BDA}=180^{\circ}-\left(70^{\circ}+50^{\circ}\right)$
$=60^{\circ}$
59. (C) $\frac{\tan A-\sec A-\sec ^{2} A-\tan ^{2} A}{\tan A+\sec A-1}$
$=\frac{(\tan A-\sec A)+(\sec A+\tan A)(\sec A-\tan A)}{\tan A+\sec A-1}$
$=\frac{(\sec A-\tan A)(\sec A+\tan A-1)}{(\tan A+\sec A-1)}$
$=\sec \mathrm{A}-\tan \mathrm{A}$
$=\frac{1-\sin A}{\cos A}$
60. (D) ATQ,

61. (B) Let D get $=100$ units

A : B : C : D
140.625: 112.5: $125: 100$

100 units $\Rightarrow 320$
140.625 units $\Rightarrow \frac{320 \times 140.625}{100}$
$=450$
Hence, Marks obtained by A is 450 .
62. (D) A : B : C
$1,12,000 \times 12:(80,000 \times 8+72,000 \times 2):$
$(72,000 \times 6+64,000 \times 2)$
$112 \times 3$ : 196 : 140
$28 \times 3: 49: 35$
49 units = Rs. 9,800
168 units $\Rightarrow$ Rs. $\frac{9,800 \times 168}{49}$
$=$ Rs. 33,600
63. (A) $\mathrm{A}: \mathrm{B}=6: 7$
$B: C=3: 2$
A: B:C
18:21:14
Difference in shares ( $\mathrm{A}-\mathrm{C}$ )
4 units = Rs. 450
$\Rightarrow 53$ units $=$ Rs. $\frac{450 \times 53}{4}$
$=$ Rs. 7,155
Hence, The sum is Rs. 7,155
64. (A) ATQ,

Let internal radius is $r$.
$\pi\left(9^{2}-r^{2}\right) \times 140=7480$
$\Rightarrow 9^{2}-\mathrm{r}^{2}=\frac{7480 \times 7}{140 \times 22}$
$\Rightarrow r=8 \mathrm{~cm}$
Hence, Thickness $=9-8$
$=1 \mathrm{~cm}$
65. (B) $\frac{\mathrm{MP}}{\mathrm{SP}}=\frac{100}{72}=\frac{25}{18}$
$\frac{S P}{C P}=\frac{6}{5}$
CP : SP : MP
15: 18:25
3 units = Rs. 30.80
15 units $=\frac{30.80 \times 15}{3}$
$=$ Rs. 154
66. (C) Let, Amit travelled by bicycle is x km and (50 - x) by foot
$\frac{50-x}{5}+\frac{x}{10}=9$
$\Rightarrow 10(50-x)+5 x=50 \times 9$
$\Rightarrow 500-10 \mathrm{x}+5 \mathrm{x}=50 \times 9$
$\Rightarrow 50=5 \mathrm{x}$
$\mathrm{x}=10 \mathrm{~km}$
67. (B) ATQ,

5678 x 43267 y is divisible by 72.
If any number is divisible by 72 then it must divisible by 8 and 9
By putting $y=2$ and $x=4$
Now, $\sqrt{8 x+9 y}=\sqrt{8 \times 4+9 \times 2}$
$=\sqrt{50}=5 \sqrt{2}$
68. (A) ATQ,
$6^{3}: 7^{3}$
216:343
127 units
127 units $\rightarrow$ Rs. 6,350
216 units $\rightarrow$ Rs. $\frac{6350 \times 216}{127}$
$=$ Rs. 10,200
69. (D) $\mathrm{N}=3^{14}+3^{13}-12$
$=3^{13}(3+1)-3 \times 4$
$=12\left(3^{12}-1\right)$
$=12\left(3^{6}-1\right)\left(3^{6}+1\right)$
$=12 \times 728 \times 730$
$=12 \times 728 \times 73 \times 10$
$\therefore 73$ is the largest prime factor of N .
70. (A)

$\angle \mathrm{PRQ}=45^{\circ}$
$\angle \mathrm{ORY}=90^{\circ}$
$\angle \mathrm{QRY}=45^{\circ}$
$R Q=Q Y$
Diagonal = $8=$ Diameter
side $=\frac{8}{\sqrt{2}}=4 \sqrt{2}$
In $\triangle \mathrm{SPY}$,
$\mathrm{SY}^{2}=\mathrm{SP}^{2}+\mathrm{PY}^{2}$
$=(8 \sqrt{2})^{2}+(4 \sqrt{2})^{2}$
$=128+32=160$
$S Y=4 \sqrt{10}$
71. (D) $x=4+\sqrt{11}+\sqrt{7}$
$x-4=\sqrt{11}+\sqrt{7}$
Squaring both sides
$(x-4)^{2}=(\sqrt{11}+\sqrt{7})^{2}$
$\Rightarrow x^{2}+16-8 x=11+7+2 \sqrt{77}$
$\Rightarrow \mathrm{x}^{2}-8 x-2=2 \sqrt{77}$
Again squaring both sides
$x^{4}-16 x^{3}+60 x^{2}+32 x+4=308$
$\therefore x^{4}-16 x^{3}+60 x^{2}+32 x=304$
72. (A) Required ratio
$=\frac{425+400}{244+306}$
$=\frac{825}{550}=\frac{3}{2}$
73. (D) Total export of item A from 2012 to 2014
$=225+370+425$
$=1020$

Total export of all items in 2015
$=400+209+306+275$
$=1,190$
Required percentage
$=\frac{1190-1020}{1190} \times 100=14.28 \%$
74. (A) Total export of item $D$ in 2010, 2012, and 2014
$=214+247+309$
$=770$
In, $2011=250+134+244+282=910$
In, $2012=225+138+230+247=840$
Required percentage
$=\frac{770}{(910+840)} \times 100$
= 44\%
75. (A) ATQ,

Avg. Export of item B in given six years
$=\frac{128+134+138+169+182+209}{6}$
$=160$
1.4 times of Avg. export of B in give six years
$=1.4 \times 160$
$=224$
We can see that,
In 2013, the export of item $D$ is 1.4 times the Avg export of B in given six years.

## MEANINGS IN ALPHABETICAL ORDER

Adventurous
Ribald

Refined

Indifferent
Festal
Seamy
Praise
Initiate
Resist
Insular

Cowardice
Impromptu
Dermatologist

Orthopedist

Obstetrics

Obstetrician
Maxim

Hyperbole

Caricature

Boutonniere

Macerate
willing to take risks
referring to sexual matters in an amusing way or irreverent way
with impurities or unwanted elements having been removed by processing
having no particular interest, unconcerned
relating to or characteristic of a celebration or festival sordid and disreputable express warm approval cause (a process or action) to begin withstand the action or effect of uninterested in new people and different ideas
lack of bravery
done without being planned or rehearsed
a medical practitioner qualified to diagnose and treat skin disorders
a physician who corrects congenital or functional abnormalities of the bones with surgery
the branch of medicine and surgery concerned with child birth
a physician or surgeon qualified to practise in obstetrics
a short, pithy statement expressing a general truth or rule of conduct
exaggerated statements or claims not meant to be taken literally
a picture, description, or imitation of a person in which certain striking characteristics are exaggerated in order to create a comic or grotesque effect a floral decoration, typically a single flower or bud, worn
on the lapel of a tuxedo or suit jacket soften or become softened by soaking in a liquid
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अतिश्न य' कि त

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## SSC MOCK TEST - 237 (ANSWER KEY)

| 1. (B) | 26. (A) | 51. (D) | 76. (C) | 76. (C) Replace 'we' with 'it' as subject is India. |
| :---: | :---: | :---: | :---: | :---: |
| 2. (D) | 27. (B) | 52. (A) | 77. (C) | ee |
| 3. (A) | 28. (C) | 53. (A) | 78. (B) |  |
| 4. (C) | 29. (A) | 54. (A) | 79. (A) | of adjective takes article the. |
| 5. (B) | 30. (D) | 55. (C) | 80. (D) | 78. (B) Scuttle - destroy, Wrec |
| 6. (C) | 31. (D) | 56. (D) | 81. (B) | - to withhold from circulation |
| 7. (A) | 32. (B) | 57. (B) | 82. (B) | 79. (A) Still - to withhold from circulation |
| 8. (A) | 33. (B) | 58. (D) | 83. (B) | 79. (A) Soothing - having a gently calming effect |
| 9. (B) | 34. (A) | 59. (C) | 84. (C) | Fizz - to show excitement or exhilaration, |
| 10. (C) | 35. (A) | 60. (D) | 85. (B) | the bubbles in a liquid and the sound they |
| 11. (C) | 36. (B) | 61. (B) | 86. (A) | make. |
| 12. (A) | 37. (B) | 62. (D) | 87. (A) |  |
| 13. (B) | 38. (D) | 63. (A) | 88. (C) | Rattling - make a series of knocking |
| 14. (B) | 39. (D) | 64. (A) | 89. (B) | sounds |
| 15. (C) | 40. (B) | 65. (B) | 90. (A) | Razzing - tease (someone) playfully |
| 16. (A) | 41. (B) | 66. (C) | 91. (B) | Razzing - tease (someone) playfuny |
| 17. (C) | 42. (D) | 67. (B) | 92. (B) | 86. (A) Previous statement is in past indefinite |
| 18. (B) | 43. (C) | 68. (A) | 93. (C) | tense and the action taken place before |
| 19. (C) | 44. (A) | 69. (D) | 94. (B) | the past indefinite is formed in past |
| 20. (B) | 45. (D) | 70. (A) | 95. (D) | perfect tense. |
| 21. (A) | 46. (B) | 71. (D) | 96. (C) |  |
| 22. (C) | 47. (A) | 72. (A) | 97. (D) | 87. (A) Verbs make and 'let' are followed by $V_{\text {b.f }}$ ' |
| 23. (C) | 48. (C) | 73. (D) | 98. (B) |  |
| 24. (C) | 49. (A) | 74. (A) | 99. (D) |  |
| 25. (D) | 50. (D) | 75. (A) | 100. (C) |  |

