UPTA CLASSES

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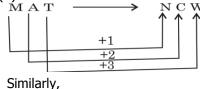
SSC	Test	Series	-24.	Solution
	/ B	I D-		- 1

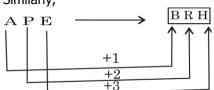
(New Pattern)							
1	С	26	С	51	D	76	Α
2	В	27	В	52	Α	77	Α
3	D	28	С	53	Α	78	С
4	В	29	Α	54	Α	79	В
5	В	30	Α	55	D	80	Α
6	Α	31	В	56	Α	81	В
7	В	32	D	57	В	82	В
8	С	33	В	58	С	83	В
9	D	34	D	59	В	84	В
10	Α	35	Α	60	D	85	В
11	D	36	В	61	D	86	С
12	С	37	С	62	D	87	Α
13	В	38	С	63	D	88	С
14	С	39	С	64	D	89	Α
15	С	40	С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

REASONING ABILITY

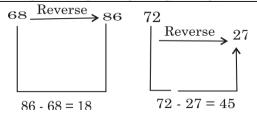
- 1. (C)
- 2. (B) Hawaii is themajor producer of Pineapple. Similarly Floride is a major producer of Oranges.
- 3. (D)

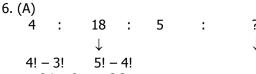






5. (B)

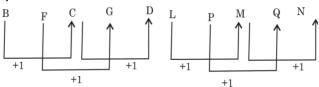




- = 96 = 24 - 6
- 7. (D) In all the other pairs, second number is 23 more than the first number.
- 8. (C)

$$D \leftrightarrow W$$
; $H \leftrightarrow S$
Pairs of opposite letters
 $B \leftrightarrow Y$; $D \leftrightarrow W$

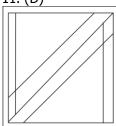
The opposite letter of C is X and that of F is U.



10. (A) Number of boys in the row

$$=(15+4+3)=22$$

C is just left of A. So, C is 14th from the left end. Number of boys to the right end of the row.



- 12. (C) There are total 15 squares in the given figure.
- 13. (B) Sitting arrangements of the members are as follows Left U R Q P S Right

Hence, Q is sitting in the middle of row.

- 14. The series is nnmm/nnmm/nnmm. Thus, the pattern 'nnmm' is repeated.
- 15. (C) Net ascent of the monkey in 1 hour
 - = (30 20) feet
 - = 10 feet
 - SO, the monkey ascent 90 feet in 9 hours i.e., till 5: 00



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pm. Clearly, in the next 1 hour i.e., till 6:00 pm the monkey sacends remaining 30 feet to touch the flag.

16. (C)

-0. (0)			
<u>Word</u>	<u>Vowels</u>	Consona	ants
ASSISTANT	3	6	\Rightarrow 36
MANAGER	3	4	\Rightarrow 34
STAFF	1	4	⇒ 14
DIRECTOR	3	3	⇒ 35

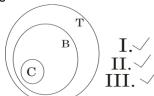
17. (B)
$$X = 3^2 - 1^2 = 8$$

$$Y = 5^2 - 3^2 = 16$$

$$Z = 7^2 - 6^2 = 13$$

- 18. (C) The given sequence is a combination of two series. I. 13, 24, 35, 46, 47 and II. 32, 43, ?, 65, 76. The pattern in both I and II is
 - So, missing term = 43 + 11 = 54

19.(a) all Follows



20.(b)
$$16 \div 2 = 14 \Rightarrow \div = -14$$

$$96 + 4 = 24 \Rightarrow + = \div$$

Then,
$$18-5 + 3 \times 2 \div 24 = ?$$

After interchanging the signs we have, ? = $18 \times 5 \div 3 + 2 \div 24 = ?$

$$=18 \times \frac{5}{3} + 2 - 24$$

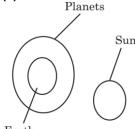
$$= 32-24=8$$

21. (a)
$$(16\times2)+(5\times6)=32+30=62$$

$$(2\times19)+(21\times5)=38+105=143$$

$$(17\times4)+(51\times3)=68+153=221$$

22. (c)



Earth is a planet. But, sun is entirely different.

23. (c) After interchanging the digits 8 and 3 we have, 24÷ $3 \times 2 - 4 + 8$

$$= 8 \times 2 - 4 + 8$$

24. (c)Angle traced by hour hand in 25/4 hrs

$$=\left(\frac{360}{12}\times\frac{22}{4}\right)=187.5^{\circ}$$

Angle traced by it in 15 min

$$=\left(\frac{360}{60}\times15\right)=90^{\circ}$$

 \therefore Required angle = (187.5°-90°)=97.5°

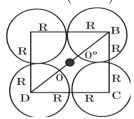
25. (c)

QUANTITATIVE APTITUDE

26. (C) BD is the diagonal of square ABCD Do = BO' = R [Same radius of circle) OO' is the diameter of small circle OO' = BD - (DO + O'B)

$$= 2\sqrt{2} R - 2R$$

$$= 2R \left(\sqrt{2} - 1 \right)$$



So, Radius of small circle
$$\frac{OO^1}{2} = \frac{2R(\sqrt{2}-1)}{2}$$

27.(B) Let x person added to finish the work at time.

$$M_1 = 45$$

$$M_2 = 45 + x$$

$$D_1 = 200$$

$$D_2 = 350 - 200 = 150$$

$$W_1 = 4.5$$

$$W_1 = 4.5$$
 $W_2 = 12 - 4.5 = 7.5$

From

$$\frac{M_1D_1}{W_1} = \frac{M_2D_2}{W_2}$$

$$\frac{45 \times 200}{4.5} = \frac{(45 + x) \times 150}{75}$$

$$60 = \frac{\left(45 + x\right) \times 3}{5}$$

$$45 + x 100$$

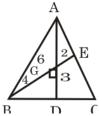
$$x = 55$$

$$28.(C) AD = 9 cm$$

$$BE = 6 \text{ cm}$$

$$AG = 6, GD = 3$$

$$BG = 4, Ge = 2$$



[G interest the medium]

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BD =
$$\sqrt{3^2 + 4^2}$$

$$BD = 5 \text{ cm}$$

29. (A) A + C + E =
$$180^{\circ}$$

$$B + D + F = 180^{\circ}$$

So.
$$A + B + C + D + E + F = 360^{\circ}$$

30. (A) 31.
$$Pq + qr + rp = 0$$

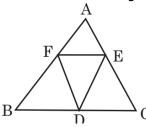
Put
$$p = 4$$
, $q = 4$, $r = 2$,

$$4 \times 4 - 4 \times 2 - 2 \times 4$$

$$16 - 8 - 8 = 0$$

Value of
$$\frac{p^2}{p^2 - qr} + \frac{q^2}{q^2 - rp} + \frac{r^2}{r^2 - pq}$$
$$= \frac{16}{16 + 8} + \frac{16}{16 + 8} + \frac{4}{4 - 16}$$
$$= \frac{16}{24} + \frac{16}{24} - \frac{4}{12}$$
$$= \frac{4}{2} - \frac{1}{2}$$

32.(D) EFD saperate the triangle in four. Equal part Let aree of each triangle = 1 unit



11 gm DEFB has 2 triangle \triangle DEF + \triangle BDF)

Area if 11 gm DEFB = 2 unit

Trapeuium CAFD has 3 triangle [\triangle CDE, \triangle AEF + \triangle DEF)

So
$$\triangle CAFd = 3$$
 unit

11 gm DEFB:
$$\triangle CAFD = 2:3$$

33. (B)
$$\sec \theta + \tan \theta = p$$
.....(i)

$$\sec \theta - \tan \theta = \frac{1}{p}$$
(ii)

$$(i) + (ii)$$

$$2 \sec \theta = p + \frac{1}{p}$$

$$\sec\theta = 2(p + \frac{1}{n})$$

$$34.(D) 2A = -3B$$

$$A \longrightarrow 3$$
 $B \longrightarrow 2$

Centres at :-

Efficiency of
$$A = 3$$

Total work =
$$8 \times 3$$

Alone do work =
$$\frac{8 \times 3}{2}$$
 = 12 days

35. (A)P = 99
$$p(p^2 + 3p + 3) = ?$$

$$P^3 + 3P^2 + 3P + 1 - 1$$

[We added 1 subtract 1 also)

$$\left[P^3 + 3P(P+1) + 1^3 \right] - 1$$

$$\lceil P+1 \rceil^3-1$$

Put the value of p

$$(99+1)^3-1=100^3-1$$

$$36.(B)x = 0$$
(i)

$$2x + 3y = 6$$
(ii)

$$x + y = 3$$
p(iii)

The coordinate from equ (i) = (0, 0)

From eqn (ii)
$$2 \times 0 + 3y = 6$$

$$3y = 6$$

From eqn (iii) = (3, 0)

$$=\frac{1}{2}\times2\times3$$

$$37.(C) 4M = 8W$$

$$1M = 2W$$

Let (6M + 12W) work done in D days

$$(6M + 12W) \times D = 8W \times 15$$

Put
$$6M = 12W [:: 1M = 2W]$$

$$(12W + 12W)D = 8W \times 15$$

$$D= 5 days$$

38. (C)Speed = 75 km/hr

time =
$$\frac{\text{Dis tance}}{\text{speed}} = \frac{1050}{75} = \frac{70}{5}$$

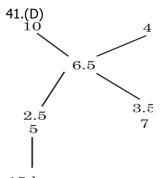
39. (C)
$$2\sin^2\theta + 3\cos^2\theta$$

40. (C)A writes No of plays in one hour
$$=\frac{75}{25} = 3$$
 pages

$$= = \frac{135}{27} = 5$$
 pages

B Writes No. of pages in one hour = 5 - 3 = 2 pages

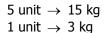
So, B take time to write 42 pages =
$$\frac{42}{2}$$
 = 21



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So, 7 unit = $3 \times 7 = 21 \text{ kg}$

So, We added 21 kg og Rate 4/kg

42. (D)Relative speed = 48 + 42 = 90 km/hr

$$= 90 \times \frac{5}{18} = 25 \text{ m/sec}$$

Length of book train $= 25 \times 12 = 300 \text{ m}$ Length of long train = 200 M

Distance couer in 45 sec by train = $48 \times \frac{5}{18} \times 45$

$$= 600 M$$

Length of platform = 600 - 200 = 400 M

43.(D) A: B = 4: K: 5: KAccording to question,

$$B^2 - A^2 = 81$$

$$(5k)^2 - (4k)^2 = 81$$

$$25k - 16k^2 = 81$$

$$9k^2 = 81$$

$$K = 3$$

So,
$$A = 4k = 4 \times 3 = 12$$

44. (D)Arithmetic mean of first n odd number = nHere. n = 20

So, Arithmetic mean = 20

45. (D) Distance = 180M

Speed = 90 km/hr =
$$90 \times \frac{5}{18} = 25$$
 m/sec

Time =
$$\frac{\text{Dis tan ce}}{\text{Speed}} = \frac{180}{25} = 7.2 \text{ sec}$$

46. (A)Monthly Income = 36000 $360^{\circ} \rightarrow 36,000$

$$saving = 60^\circ = \frac{12 \times 36,000}{360^\circ} \times 60^\circ$$

$$= 72,000$$

47.(b) Education expend = 70°

Home expend = 54°

Difference $=16^{\circ}$

Value of $16^{\circ} = 1600$

Value of $1^{\circ} = 100$

So, food = $120^{\circ} = 120 \times 100$

= 12,000

48. (A)Food expend = 120°

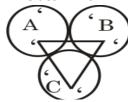
savings = 60°

 $120^{\circ}:60^{\circ}=21:1$

49.(a) Correct Average =
$$\frac{6 \times 88 \times 68 - 86}{6}$$

$$= \frac{528 - 18}{6}$$
$$= \frac{510}{6}$$
$$= 85$$

50. (c)ABC is an equilateral Triangle whose each Sides = 2 cm



Area of
$$\triangle ABC = \frac{\sqrt{3}}{4} \times (2)^2 = \sqrt{3}cm^2$$

Area of circle = $\pi r^2 = \pi \times 1^2 = \pi$

Area of shaded regian

= Area of triangle
$$-\frac{1}{2}$$
 area of

$$=\sqrt{3}-\frac{\pi}{2}cm^2$$

English Language explanatory Solution

76. (a) Have +VIIIrd 'Criticised in place of cticise

77. (a) 'Impatiently' use होगा Impatient के स्थान पर

78. (b) 'Whom के स्थान पर 'Who' use होगा

79. (b) (Verb) Effected प्रमाणित, Reflected प्रतिबिम्ब किया, Expceted अपेक्षित Affected (adjective) कपटी, दिखावटी (affect) प्रभावित करना (verb)

80. (a) With

81. (b) To surround a place with the intention of capturing it

Besige ਬੇਂਦ लेना (surround so as to force to give up)

82. (d)One who is opposed to intellectual progress : Obscurant रुढिवादी

Imposter ढोंगी

Prospectors पूर्वेक्षक, सोना चांदी की खान खोजने वाला Chaperon संरक्षिका, चौकसी करने वाली स्त्री

83.(b) A owman with dark brown hair Brunette गौरी स्त्री जिसके बाल काले हों

Blonde सुनहरें बालों वाली

Termagant झगडालू Coiffure बाल बनाने के प्रकार

84. (b) Weal and wal Joys and sorrows सुखः और दुःख

85. (b) at one's beck and call

To be always at one's service हर किसी की सेवा के लिए
सदैव तैयार रहना

86. (c) Rack and ruin –
Destroyed बर्बादी
Successfulसफलता, Debt श्रण, Ransacked लूटा हुआ

87. (a) was on the alert.

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- 88.(c)' Explain' use होगा say के स्थान पर
- 89.(a) Let's buy a anew sari with annual bonus shall we? Let's के साथ Question tag —"Shall we" लगातें हैं
- 90. (a)If you had studied hard, you would have got a first class.
 - If S+ had+ VIII, S+would have + VIII+O
- 91.(a) First Sentnece 'past Tense' में है तो but के बाद वाला भी 'Past Tense में होगा
 - Nobody was there.
- 92. (a) Will be enable to make' के बाद का Verb (Superede) V form में है। 'Make सही है क्यांकि इसी के बाद स्थिति में 'to' Supersede होता
- 93. (c)Augur पूर्व सूचना Signify (सूचित करना) Heal घाव भरना, Reform सुधार
- 94. (c) Barbarous असभ्य Civilized सभ्य Improved बेहतर, Cardial – हार्दिक, Modified शंशोधित
- 95. (a) Assimilation Absorption (आत्मसात)
- 96. (d)
- 97. (c) 'Neo-Rich' means Newly rich people.
- 98. (c), 99. (d), 100. (b).