

SSC SPECIAL DAILY QUIZ -497
TOTAL QUESTIONS-40, TIME - 40 MINUTES, MARKS - 40
ARENA OF GENERAL KNOWLEDGE

1. The 2011 census is the :
 (a) 13th Census (b) 14th Census (c) 15th Census (d) 16th Census
2. The article of Indian constitution related to abolition of untouchability is :
 (a) 15 (b) 16 (c) 17 (d) 18
3. When we consume the goat or sheep beef (mutton) then we are :
 (a) Primary consumer (b) Secondary consumer
 (c) Tertiary consumer (d) None of these
4. Cutting and Peeling of onions brings tears to the eyes because of the presence of :
 (a) Carbon in the cell (b) Amino acid in the cell
 (c) Sulphur in the cell (d) Calcium in the cell
5. Who was the first musician to be felicitated with Bharat Ratna?
 (a) Lata Mangeskar (b) Pt. Ravi Shankar
 (c) M.S. Subhalaxmi (d) Pt. Bhimsen Joshi
6. Which among the following Trophy/cup is not associated with football?
 (a) Subroto Cup (b) Santosh Cup (c) Nehru Torphy (d) Duranadi Cup
7. If the Prime Minister of India submits his resign to present, it will mean the resignation of :
 (a) Prime Minister only
 (b) Entire council of ministers
 (c) Prime Minister and Cabinet Minister
 (d) Prime Minister, Cabinet Minister and Minister of States
8. Which of the following is under the state list?
 (a) Criminal law (b) Education (c) Agriculture (d) Forest
9. The process which doesn't evolve Co₂ in air is :
 (a) burning (b) breathing (c) organic (d) Photo synthesis
10. Which one of the following is not a cause for present global warming and climate change?
 (a) CFC emission (b) Carbon dioxide emission
 (c) Deforestation (d) Methane emission
11. The coin of which dynasty reveal their love for music?
 (a) Maurya (b) Nanda (c) Gupta (d) Cholas
12. The busiest oceanic trade route of the world is
 (a) Atlantic Ocean (b) Pacific Ocean
 (c) Indian Ocean (d) Arctic Ocean
13. The Accounting year of Reserve Bank of India runs form :
 (a) January to December (b) April to March
 (c) March to February (d) July to June
14. ISI mark is not given to which of the following products?
 (a) Electrical goods (b) Hosiery goods
 (c) Biscuits (d) Cloths
15. Match the following

A. Kuchikal	1. Varahi river
B. Keoti	2. Mahanadi river
C. Shiv Samudram	3. Cauvery river
D. Gerosoppa	4. Sharavati river

A	B	C	D
(a)	2	1	3
(b)	1	2	3
(c)	1	2	4

- (d) 2 1 4 3
16. Which is not a storage device?
 (a) Floppy disk (b) Hard disk (c) Printer (d) CD
17. Which committee is appointed for the special investigation of security scam?
 (a) Ram Niwas Mirdha (b) Rangarajan Committee
 (c) R. Chelliah committee (d) None of these
18. The type of question which requires written answer and supplementary question can't follow are :
 (a) starred question (b) Unstarred question
 (c) A short notice question (d) None of these
19. Austria, Italy, England are associated with which industry?
 (a) Textiles (b) Dairy products (c) Machinery (d) None
20. Special representation in Panchayati Raj is given to :
 (a) Women (b) Backward class (c) Co-operative (d) All of these
21. The legislature council in a state in India may be created or abolished by :
 (a) President on the recommendation of Governor
 (b) Governor on the recommendation of CM
 (c) Parliament
 (d) Parliament after the state legislative assembly passes a resolution to that effect
22. In which of the following the prime meridian doesn't pass through?
 (a) Portugal (b) Spain (c) Algeria (d) Ghana
23. Purna Bandha is the mouth of which Odisha river :
 (a) Brahmani (b) Budhabalanga (c) Rusikulya (d) Subernarekha
24. Polavaram project is the bone of contention between Union govt. and State govt. of Odisha is under construction in which river?
 (a) Rusikulya (b) Musi (c) Krishna (d) Godavari
25. The Gandhar Art flourished during the period of
 (a) Gupta (b) Maurya (c) Satavahans (d) Kusana

ENGLISH BUZZ

Directions (26-30): In the following question, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error. The number of that part is your answer. If a sentence is free from error, then your answer is (d) i.e. No error.

26. Not only most of the popular tele-serials in India are illogical (a) / in their story line (b) / but also crude in their presentation.(c) / No error (d).
27. I am trying to convince my brother (a) / for the last two days to come (b) / and live with me till father's anger cools down. (c) / No error (d).
28. It is a pity that a son (a) / born from very good parents (b) / should live a life of misery and deprivation of the worst order. (c) / No error (d).
29. I would have asked my friend (a) / to leave my house at once(b) / if my father would not have been at home and awake. (c) / No error (d).
30. My friends Rishi and Sohan (a) / are very industrious and sincere (b) / but I like the latter most. (c) / No error (d).

Directions (31 to 35) : Choose the word opposite in meaning to the word given in bold and indicate your correct answer.

31. Excruciating
 (a) mild (b) noisy (c)sophisticating (d) modern
32. Capricious
 (a) Firm (b) Fickle (c) Indefinite (d) Defiant
33. Choleric
 (a) affluent (b) brave (c) pleasant (d) tired
34. Spasmodic

- (a) ill-humoured (b) sporadic (c) regular (d) tireless
35. Puerile
 (a) inquisitive (b) matured (c) impure (d) original

MASTERING MATHEMATICS

36. The perimeter of an isosceles, right-angled triangle is $2p$ unit. The area of the same triangle is
 a) $(3-2\sqrt{2})p^2$ sq.unit b) $(2+2\sqrt{2})p^2$ sq.unit c) $(2-2\sqrt{2})p^2$ sq.unit
 d) $(3-\sqrt{2})p^2$ sq.unit
37. Find the value of k for which the lines $2x+3y-4=0$ and $kx+6y+5=0$ are parallel.
 a) 3 b) 8 c) 6 d) 4
38. If three vertices of a parallelogram $ABCD$ are $A(+1,-2)$, $B(3,6)$ and $C(5,10)$, find its fourth vertex D .
 a) $(-1,-2)$ b) $(1,2)$ c) $(1,-2)$ d) $(-1,2)$
39. If $2a - \frac{2}{a} + 3 = 0$, then the value of $\left(a^3 - \frac{1}{a^3} + 2\right)$ is
 a) 5 b) $-\frac{35}{8}$ c) $-\frac{40}{7}$ d) $-\frac{47}{8}$
40. Sides of a parallelogram are in the ratio 5:4. Its area is 100 sq. units. Altitude on the greater side is 20 units. Altitude on the smaller side is
 a) 30 units b) 25 units c) 10 units d) 15 units

Total Marks : _____

Your Mark : _____

Toppers Mark : _____

SCORE CARD

35-40 : Outstanding **A**
 30-34: Very Good **B**
 25-29: Good **C**
 Less than 25: Average **D**

ANSWER KEYS

01 c 02 c 03 b 04 c 05 c 06 c 07 b 08 c 09 d 10 c
 11 c 12 a 13 b 14 c 15 b 16 c 17 a 18 b 19 a 20 d
 21 d 22 a 23 c 24 d 25 d 26 a 27 a 28 b 29 c 30 c
 31 a 32 a 33 c 34 c 35 b 36 b 37 d 38 c 39 d 40 b

EXPLANATIONS

(26-30)

26. a;

Put 'not only' after 'are'

27. a;

'Have been' in place of 'am'

28. b;

Change 'from' into 'of'

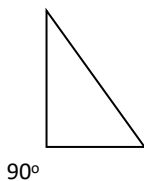
29. c;

Change 'would not have' into 'had not'

30. c;

Change 'most' into 'the most'

36-b;



$$AB = BC = x$$

$$\therefore AC = \sqrt{AB^2 + BC^2} = \sqrt{x^2 + x^2} = \sqrt{2}x \text{ units} \therefore 2x + \sqrt{2}x = 2p$$

$$\Rightarrow x = \frac{2p}{2 + \sqrt{2}} = \frac{2p(2 - \sqrt{2})}{(2 + \sqrt{2})(2 - \sqrt{2})} = (2 - \sqrt{2})p$$

$$\therefore \text{Area of triangle} = \frac{1}{2}x^2 = \frac{1}{2} \times (2 - \sqrt{2})^2 p^2 = \frac{4 + 2 - 4\sqrt{2}}{2} p^2 = (3 - 2\sqrt{2})p^2 \text{ sq. units}$$

37-d;

$$2x + 3y - 4 = 0 \Rightarrow 3y = -2x + 4 \Rightarrow y = \frac{-2}{3}x + \frac{4}{3} \Rightarrow kx + 6y + 5 = 0 \Rightarrow 6y = -kx - 5$$

$$\Rightarrow y = \frac{-k}{6}x - \frac{5}{6} \text{ The lines will be parallel, if } \frac{-k}{6} = \frac{-2}{3} \Rightarrow k\left(\frac{2}{3} \times 6\right) = 4 \therefore k = 4$$

38-c;

Let the 4th vertex be D(x,y) Mid point of AC is $\left(\frac{1+3}{2}, \frac{-2+6}{2}\right)$, i.e. (2,2)

Mid point of BD is $\left(\frac{3+x}{2}, \frac{6+y}{2}\right) \therefore \frac{3+x}{2} = 2$ and $\frac{6+y}{2} = 2 \Rightarrow x = 1$ and $y = -2$

\therefore Required vertex is D(1,-2)

39-d;

$$2a - \frac{2}{a} = -3 \Rightarrow a - \frac{1}{a} = -\frac{3}{2} \text{ On cubing both sides, we get } \left(a - \frac{1}{a}\right)^3 = -\frac{27}{8}$$

$$\Rightarrow a^3 - \frac{1}{a^3} - 3a \cdot \frac{1}{a} \left(a - \frac{1}{a}\right) = -\frac{27}{8} \Rightarrow a^3 - \frac{1}{a^3} - 3 \times \left(-\frac{3}{2}\right) = -\frac{27}{8} \Rightarrow a^3 - \frac{1}{a^3} = -\frac{27}{8} - \frac{9}{2} = \frac{-27 - 36}{8} \Rightarrow a^3 - \frac{1}{a^3} = \frac{-63}{8}$$

$$\therefore a^3 - \frac{1}{a^3} + 2 = \frac{-63}{8} + 2 = \frac{-63 + 16}{8} = \frac{-47}{8}$$

40-b;

Let the sides of parallelogram be 5x and 4x. Base x Height = Area of parallelogram

$$\therefore 5x + 20 = 1000 \Rightarrow x = \frac{1000}{5 \times 20} = 10$$

$$\therefore \text{Sides} = 50 \text{ and } 40 \text{ units} \therefore 40xh = 1000 \Rightarrow h = \frac{1000}{40} = 25 \text{ units}$$

“LIVE AS IF YOU WERE TO DIE TOMORROW. LEARN AS IF YOU WERE TO LIVE FOREVER”