



TEST PAPER

CLASS-12 APPEARING

Time Allowed : Two Hours

Maximum Marks : 400

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. **DO NOT** write *anything else* on the Test Booklet.
4. This Test Booklet contains **100** items (questions). **Part I - Mathematics, Science** and **Part II - English, General Awareness**. Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. **Each** item carry **four (4)** marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the invigilator **only the Answer Sheet**. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one (1)** mark assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank i.e., no answer is given by the candidate, there will be **no penalty** for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

/;ku n % vun"kk dk fgUnh : iKurj bl ifLrdk d fiNy i'B ij Nik gA

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PART - I

MATHEMATICS

1. Let R be a relation over the set $N \times N$ and it is defined by $(a, b)R(c, d) \Rightarrow a + d = b + c$.

Then R is

- (a) Reflexive only
- (b) Symmetric only
- (c) Transitive only
- (d) An equivalence relation

2. A function f from the set of natural numbers to integers defined by

$$f(n) = \begin{cases} \frac{n-1}{2}, & \text{when } n \text{ is odd} \\ -\frac{n}{2}, & \text{when } n \text{ is even, is 2.} \end{cases}$$

- (a) One-one but not onto
- (b) Onto but not one-one
- (c) One-one and onto both
- (d) Neither one-one nor onto

3. If $A = \begin{bmatrix} 1 & 2 & -1 \\ -1 & 1 & 2 \\ 2 & 1 & 1 \end{bmatrix}$, then the value of

$\det(\text{adj}(\text{adj} A))$ is :

- (a) 14^4
- (b) 14^3
- (c) 14
- (d) None of these

4. Adjoint of the matrix $N = \begin{bmatrix} -4 & -3 & -3 \\ 1 & 0 & 1 \\ 4 & 4 & 3 \end{bmatrix}$ is :

- (a) N
- (b) $2N$
- (c) $-N$
- (d) None of these

5. If the system of equations $ax + y + z = 0$, $x + by + z = 0$ and $x + y + cz = 0$, where $a, b, c \neq 1$, has a non trivial solution, then the value

of $\frac{1}{1-a} + \frac{1}{1-b} + \frac{1}{1-c}$ is :

- (a) -1
- (b) 0
- (c) 1
- (d) None of these

1. ekuk R dk lepp; $N \times N$ ij ,d lecu/k g vkj ;g $(a, b)R(c, d) \Rightarrow a + d = b + c$ dk }kjk ifjHkkf"kr g] rc R g

- (a) doy LorY;
- (b) doy lefer
- (c) doy lØed
- (d) rY; rk lecu/k

2. çkÑfrd l[;kvk d lepp; l i.kkd d fy; ,d Qyu f bl idkj ifjHkkf"kr g fd %

$$f(n) = \begin{cases} \frac{n-1}{2}, & \text{tgk n fo"ke l[;k gA} \\ -\frac{n}{2}, & \text{tgk n le l[;k] 2 gA} \end{cases}$$

- (a) ,ddh yfdu vkPNknd ugh
- (b) vkPNknd yfdu ,ddh ugh
- (c) ,ddh vkj vkPNknd nkuk
- (d) u rk ,ddh vkj u gh vkPNknd

3. ;fn $A = \begin{bmatrix} 1 & 2 & -1 \\ -1 & 1 & 2 \\ 2 & 1 & 1 \end{bmatrix}$ g rk $\det(\text{adj}(\text{adj} A))$

dk eku g %

- (a) 14^4
- (b) 14^3
- (c) 14
- (d) bue l dkb ugh

4. v0;g $N = \begin{bmatrix} -4 & -3 & -3 \\ 1 & 0 & 1 \\ 4 & 4 & 3 \end{bmatrix}$ dk lg[k.Mt g&

- (a) N
- (b) $2N$
- (c) $-N$
- (d) bue l dkb ugh

5. ;fn lehdj.k fudk; $ax + y + z = 0$, $x + by + z = 0$ vkj $x + y + cz = 0$, d ikl v'ku; gy ugh g tgk $a, b, c \neq 1$, rk

$\frac{1}{1-a} + \frac{1}{1-b} + \frac{1}{1-c}$ dk eku g&

- (a) -1
- (b) 0
- (c) 1
- (d) bue l dkb ugh

6. Let S be a set containing n elements and we select 2 subsets A and B of S at random then the probability that $A \cup B = S$ and $A \cap B = \phi$ is :

(a) 2^n (b) n^2
(c) $1/n$ (d) $1/2^n$

7. Let A , B and C be the three events such that $P(A) = 0.3$, $P(B) = 0.4$, $P(C) = 0.8$, $P(A \cap B) = 0.08$, $P(A \cap C) = 0.28$ and $P(A \cap B \cap C) = 0.09$. If $P(A \cup B \cup C) \geq 0.75$ then $P(B \cap C)$ satisfies :

(a) $P(B \cap C) \leq 0.23$
(b) $P(B \cap C) \leq 0.48$
(c) $0.23 \leq P(B \cap C) \leq 0.48$
(d) None of these

8. In a bag there are three tickets numbered 1, 2, 3. A ticket is drawn at random and put back and this is done four times. The probability that the sum of the numbers is even, is :

(a) $\frac{41}{81}$ (b) $\frac{39}{81}$
(c) $\frac{40}{81}$ (d) None of these

9. If, $\sin^{-1} a + \sin^{-1} b + \sin^{-1} c = \pi$ then the value of $a\sqrt{1-a^2} + b\sqrt{1-b^2} + c\sqrt{1-c^2}$ will be :

(a) $2abc$ (b) abc
(c) $\frac{1}{2}abc$ (d) $\frac{1}{3}abc$

10. If the scalar projection of the vectors $xi - j + k$ on the vector $2i - j + 5k$ is $\frac{1}{\sqrt{30}}$ then the value of x is equal to :

(a) $\frac{-5}{2}$ (b) 6
(c) -6 (d) 3

6. ekuk lepp; S e n vo;og vkj lepp; S d nk mi lepp; $k A$ vkj B dk ;nPn; k puk tkrk g] rc $A \cup B = S$ vkj $A \cap B = \phi$ dh çkf;drk g %

(a) 2^n (b) n^2
(c) $1/n$ (d) $1/2^n$

7. ekuk A, B o C rhu ?kvuk; g bl idkj $P(A) = 0.3$, $P(B) = 0.4$, $P(C) = 0.8$, $P(A \cap B) = 0.08$ $] P(A \cap C) = 0.28$ vkj $P(A \cap B \cap C) = 0.09$ g] ;fn $P(A \cup B \cup C) \geq 0.75$ rc $P(B \cap C)$ l r'v glxk

(a) $P(B \cap C) \leq 0.23$
(b) $P(B \cap C) \leq 0.48$
(c) $0.23 \leq P(B \cap C) \leq 0.48$
(d) bue l dkb ugh

8. ,d Fky e rhu fvdv g ftu ij 1, 2, 3 vfdR gA ,d fvdv dk ;nPn; k fudkyk tkrk g ,o oki l j [kk tkrk gA ;g çfØ; k pkj ckj nkgjkb tkrh g] rk l [;kvk dk ;kxQy le gku dh çkf;drk g %

(a) $\frac{41}{81}$ (b) $\frac{39}{81}$
(c) $\frac{40}{81}$ (d) bue l dkb ugh

9. ;fn $\sin^{-1} a + \sin^{-1} b + \sin^{-1} c = \pi$ rc

$a\sqrt{1-a^2} + b\sqrt{1-b^2} + c\sqrt{1-c^2}$ dk eku glxk %

(a) $2abc$ (b) abc
(c) $\frac{1}{2}abc$ (d) $\frac{1}{3}abc$

10. ;fn lfn" k $xi - j + k$ dk lfn" k $2i - j + 5k$ ij vfn" k çfki $\frac{1}{\sqrt{30}}$ g] rc x dk eku g %

(a) $\frac{-5}{2}$ (b) 6
(c) -6 (d) 3

11. If $a = i + j + k$, $b = i + 3j + 5k$ and $c = 7i + 9j + 11k$, then the area of the parallelogram having diagonals $a + b$ and $b + c$ is :

- (a) $4\sqrt{6}$ (b) $\frac{1}{2}\sqrt{21}$
(c) $\frac{\sqrt{6}}{2}$ (d) $\sqrt{6}$

12. The angle between the lines $2x = 3y = -z$ and $6x = -y = -4z$, is :

- (a) 0° (b) 30°
(c) 45° (d) 90°

13. The image of the point $(1, 3, 4)$ with respect to the plane $2x - y + z + 3 = 0$ is :

- (a) $(-1, 4, 3)$ (b) $(-3, 5, 2)$
(c) $(1, 3, 4)$ (d) $(-1, -3, -4)$

14. The centre of sphere passes through four points $(0, 0, 0)$, $(0, 2, 0)$, $(1, 0, 0)$ and $(0, 0, 4)$ is

- (a) $\left(\frac{1}{2}, 1, 2\right)$ (b) $\left(-\frac{1}{2}, 1, 2\right)$
(c) $\left(\frac{1}{2}, 1, -2\right)$ (d) $\left(1, \frac{1}{2}, 2\right)$

15. The value of $f(0)$, so that the function

$$f(x) = \frac{(27-2x)^{1/3} - 3}{9-3(243+5x)^{1/5}}, (x \neq 0) \text{ is continuous,}$$

is given by :

- (a) $2/3$ (b) 6
(c) 2 (d) 4

16. If $x = t + \frac{1}{t}$, $y = t - \frac{1}{t}$, then $\frac{d^2y}{dx^2}$ is equal to :

- (a) $-4t(t^2 - 1)^{-2}$ (b) $-4t^3(t^2 - 1)^{-3}$
(c) $(t^2 + 1)(t^2 - 1)^{-1}$ (d) $-4t^2(t^2 - 1)^{-2}$

11. ;fn $a = i + j + k$, $b = i + 3j + 5k$ rFkk $c = 7i + 9j + 11k$ gk rk fod.k $a + b$ rFkk $b + c$ oky lekUrj prHkt dk {k=Qy g

- (a) $4\sqrt{6}$ (b) $\frac{1}{2}\sqrt{21}$
(c) $\frac{\sqrt{6}}{2}$ (d) $\sqrt{6}$

12. j [kkvk $2x = 3y = -z$ rFkk $6x = -y = -4z$ d e/; dk.k g

- (a) 0° (b) 30°
(c) 45° (d) 90°

13. fcln $(1, 3, 4)$ d lery $2x - y + z + 3 = 0$ d lki {k cfrfcEc g

- (a) $(-1, 4, 3)$ (b) $(-3, 5, 2)$
(c) $(1, 3, 4)$ (d) $(-1, -3, -4)$

14. pkj fclnvk $(0, 0, 0)$, $(0, 2, 0)$, $(1, 0, 0)$ rFkk $(0, 0, 4)$ l x t ju oky xky dk dUn g

- (a) $\left(\frac{1}{2}, 1, 2\right)$ (b) $\left(-\frac{1}{2}, 1, 2\right)$
(c) $\left(\frac{1}{2}, 1, -2\right)$ (d) $\left(1, \frac{1}{2}, 2\right)$

15. $f(0)$ dk eku] bl idkj fd Qyu

$$f(x) = \frac{(27-2x)^{1/3} - 3}{9-3(243+5x)^{1/5}}, (x \neq 0) \text{ lrr g}$$

- (a) $2/3$ (b) 6
(c) 2 (d) 4

16. ;fn $x = t + \frac{1}{t}$, $y = t - \frac{1}{t}$, rk $\frac{d^2y}{dx^2}$ cjkj g

- (a) $-4t(t^2 - 1)^{-2}$ (b) $-4t^3(t^2 - 1)^{-3}$
(c) $(t^2 + 1)(t^2 - 1)^{-1}$ (d) $-4t^2(t^2 - 1)^{-2}$

17. If x is real, then the minimum value of $y = \frac{x^2 - x + 1}{x^2 + x + 1}$ is :

- (a) 3 (b) $\frac{1}{3}$
(c) $\frac{1}{2}$ (d) 2

18. If $f(x) = Kx - \cos x$ is monotonically increasing for all $x \in R$ then :

- (a) $K > -1$ (b) $K < 1$
(c) $x > 1$ (d) None of these

19. The maximum value of $\sin x (1 + \cos x)$ is:

- (a) 3 (b) $\frac{3\sqrt{3}}{4}$
(c) 4 (d) $3\sqrt{3}$

20. The value of $\int \sec x \log(\sec x + \tan x) dx$ is :

- (a) $[\log(\sec x + \tan x)]^2 + c$
(b) $\frac{1}{2}[\log(\sec x + \tan x)]^2 + c$
(c) $\sec^2 x + \tan x \sec x + c$
(d) None of these

21. The value of $\int_0^{\pi/2} \frac{x \sin x \cos x}{\cos^4 x + \sin^4 x} dx$ is :

- (a) 0 (b) $\frac{\pi}{8}$
(c) $\frac{\pi^2}{8}$ (d) $\frac{\pi^2}{16}$

22. The area in the first quadrant between $x^2 + y^2 = \pi^2$ and $y = \sin x$ is :

- (a) $\frac{(\pi^3 - 8)}{4}$ (b) $\frac{\pi^3}{4}$
(c) $\frac{(\pi^3 - 16)}{4}$ (d) $\frac{(\pi^3 - 8)}{2}$

17. ;fn x okLrfod l [;k g] rk $y = \frac{x^2 - x + 1}{x^2 + x + 1}$ dk U;ure eku g %

- (a) 3 (b) $\frac{1}{3}$
(c) $\frac{1}{2}$ (d) 2

18. ;fn lHkh $x \in R$ d fy, $f(x) = Kx - \cos x$ leku of)eku Qyu g] rc :

- (a) $K > -1$ (b) $K < 1$
(c) $x > 1$ (d) bue l dkb ugh

19. $\sin x (1 + \cos x)$ dk vfkdre eku g %

- (a) 3 (b) $\frac{3\sqrt{3}}{4}$
(c) 4 (d) $3\sqrt{3}$

20. $\int \sec x \log(\sec x + \tan x) dx$ dk eku g %

- (a) $[\log(\sec x + \tan x)]^2 + c$
(b) $\frac{1}{2}[\log(\sec x + \tan x)]^2 + c$
(c) $\sec^2 x + \tan x \sec x + c$
(d) bue l dkb ugh

21. $\int_0^{\pi/2} \frac{x \sin x \cos x}{\cos^4 x + \sin^4 x} dx$ dk eku g %

- (a) 0 (b) $\frac{\pi}{8}$
(c) $\frac{\pi^2}{8}$ (d) $\frac{\pi^2}{16}$

22. çFke prFkk'k e $x^2 + y^2 = \pi^2$, o $y = \sin x$ d chp f?kjk {k=Qy g %

- (a) $\frac{(\pi^3 - 8)}{4}$ (b) $\frac{\pi^3}{4}$
(c) $\frac{(\pi^3 - 16)}{4}$ (d) $\frac{(\pi^3 - 8)}{2}$

23. The order of the differential equation whose solution is $x^2 + y^2 + 2gx + 2fy + c = 0$, is :

- (a) 1 (b) 2
(c) 3 (d) 4

24. Solution of the differential equation $\frac{dy}{dx} + y \sec^2 x = \tan x \sec^2 x$ is :

- (a) $y = \tan x - 1 + ce^{-\tan x}$
(b) $y^2 = \tan x - 1 + ce^{-\tan x}$
(c) $ye^{\tan x} = \tan x - 1 + c$
(d) $ye^{\tan x} = \tan x - 1 + c$

25. $\lim_{x \rightarrow -2} \frac{\sin^{-1}(x+2)}{x^2 + 2x}$ is equal to :

- (a) 9 (b) ∞
(c) $-1/2$ (d) None of these

23. $x^2 + y^2 + 2gx + 2fy + c = 0$ का
क्रम क्या है ?

- (a) 1 (b) 2
(c) 3 (d) 4

24. $\frac{dy}{dx} + y \sec^2 x = \tan x \sec^2 x$ का
समाधान क्या है ?

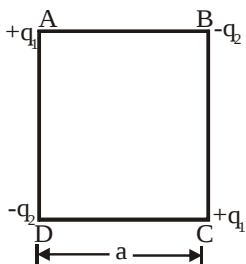
- (a) $y = \tan x - 1 + ce^{-\tan x}$
(b) $y^2 = \tan x - 1 + ce^{-\tan x}$
(c) $ye^{\tan x} = \tan x - 1 + c$
(d) $ye^{\tan x} = \tan x - 1 + c$

25. $\lim_{x \rightarrow -2} \frac{\sin^{-1}(x+2)}{x^2 + 2x}$ का मान क्या है ?

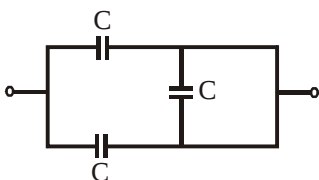
- (a) 9 (b) ∞
(c) $-1/2$ (d) कोई नहीं

SCIENCE

26. Charges are placed at corners of a square of side 'a'. If the charge A is in equilibrium, then ratio $\frac{q_1}{q_2}$ is

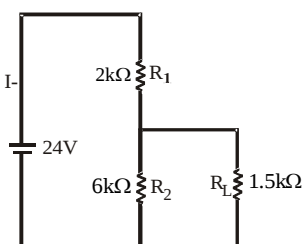


- (a) 1
(b) $\sqrt{2}$
(c) $\frac{1}{\sqrt{2}}$
(d) $2\sqrt{2}$
27. The equivalent capacitance of the combination below is



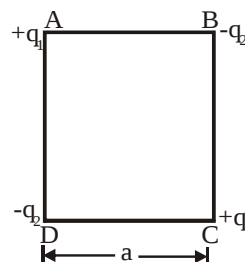
- (a) $2C$
(b) C
(c) $\frac{1}{2}C$
(d) None of these

28. For the circuit shown in the figure.

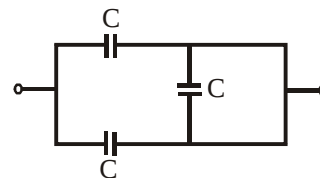


- (a) the current I through the battery is 7.5 mA
(b) the potential difference across R_L is 18 Volt
(c) ratio of powers dissipated in R_1 and R_2 is 3
(d) None of these

26. Charges are placed at corners of a square of side 'a'. If the charge A is in equilibrium, then ratio $\frac{q_1}{q_2}$ is

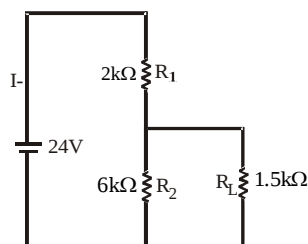


- (a) 1
(b) $\sqrt{2}$
(c) $\frac{1}{\sqrt{2}}$
(d) $2\sqrt{2}$
27. The equivalent capacitance of the combination below is



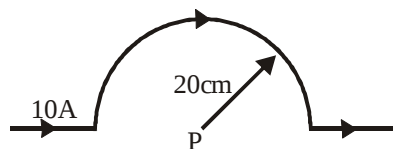
- (a) $2C$
(b) C
(c) $\frac{1}{2}C$
(d) None of these

28. For the circuit shown in the figure.

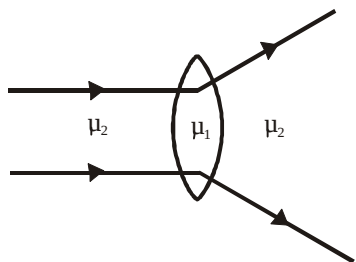


- (a) the current I through the battery is 7.5 mA
(b) the potential difference across R_L is 18 Volt
(c) ratio of powers dissipated in R_1 and R_2 is 3
(d) None of these

29. A current of 10 A is passing through a long wire which has semicircular loop of the radius 20 cm as shown in the figure. Magnetic field produced at the centre of the loop is

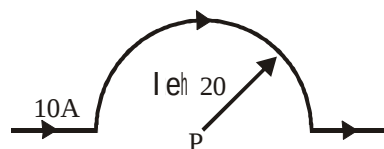


- (a) $10 \pi \mu \text{ T}$ (b) $5 \pi \mu \text{ T}$
 (c) $4 \pi \mu \text{ T}$ (d) $2 \pi \mu \text{ T}$
30. If a magnet is suspended at an angle 30° to the magnetic meridian, the dip of needle makes an angle of 45° with the horizontal, the real dip is
- (a) $\tan^{-1}\left(\frac{\sqrt{3}}{2}\right)$ (b) $\tan^{-1}(\sqrt{3})$
 (c) $\tan^{-1}\left(\sqrt{\frac{3}{2}}\right)$ (d) $\tan^{-1}\left(\frac{2}{\sqrt{3}}\right)$
31. What is the average value of the AC voltage over one complete cycle?
- (a) Zero (b) $V_{\max}$
 (c) $\frac{2V_{\max}}{\pi}$ (d) $\frac{V_{\max}}{2}$
32. Solar radiation is
- (a) transverse electromagnetic waves
 (b) longitudinal electromagnetic waves
 (c) stationary waves
 (d) None of the above
33. A convex lens made up of a material of refractive index μ_1 is immersed in a medium of refractive index μ_2 as shown in the figure. The relation between μ_1 and μ_2 is

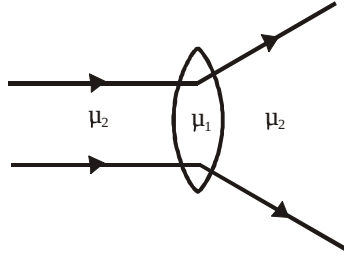


- (a) $\mu_1 < \mu_2$ (b) $\mu_1 > \mu_2$
 (c) $\mu_1 = \mu_2$ (d) $\mu_1 = \sqrt{\mu_2}$

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- (a) $10 \pi \mu \text{ T}$ (b) $5 \pi \mu \text{ T}$
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 (c) $\mu_1 = \mu_2$ (d) $\mu_1 = \sqrt{\mu_2}$

34. 2kg ice of -20°C is mixed with 5kg of water of 20°C . Then the amount of the water in the container will be :

- (a) 6 kg (b) 7 kg
(c) 6.5 kg (d) 5.5 kg

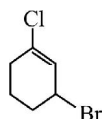
35. Phase difference between the vibrating particles of the plane of vibration is. –

- (a) π (b) $\frac{\pi}{2}$
(c) 0 (d) None of these

36. A reaction was found to be of second order with respect to the concentration of carbon monoxide. If the concentration of carbon monoxide is doubled, with everything else kept the same, the rate of reaction will

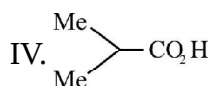
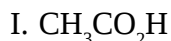
- (a) double
(b) remain unchanged
(c) triple
(d) increase by a factor of 4.

37. The IUPAC name of the compound shown below is :



- (a) 1-bromo -3- chlorocyclohexene
(b) 2- bromo -6- chlorocyclohex-1-ene
(c) 6-bromo-2-chlorocyclohexene
(d) 3- bromo-1-chlorocyclohexene.

38. The correct order of increasing acid strength, of the compounds



- (a) $\text{I} < \text{IV} < \text{III} < \text{II}$ (b) $\text{II} < \text{IV} < \text{I} < \text{III}$
(c) $\text{IV} < \text{I} < \text{III} < \text{II}$ (d) $\text{IV} < \text{I} < \text{II} < \text{III}$

39. Uncertainty in the position of an electron (mass = $9.1 \times 10^{-31} \text{ kg}$) moving with a velocity 300 ms^{-1} , accurate upto 0.001 %, will be ($h = 6.63 \times 10^{-34} \text{ Js}$)

- (a) $3.84 \times 10^{-2} \text{ m}$ (b) $19.2 \times 10^{-2} \text{ m}$
(c) $5.76 \times 10^{-2} \text{ m}$ (d) $1.92 \times 10^{-2} \text{ m}$

34. -20°C d 2kg cQ dk 20°C d 5kg ikuh e feyk;k tkrk g rk dVuj e fdruk ikuh gkxk&

- (a) 6 kg (b) 7 kg
(c) 6.5 kg (d) 5.5 kg

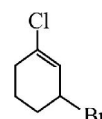
35. lery ij dEiu djr g, iR;d d.k d chp dk dkykUrj g

- (a) π (b) $\frac{\pi}{2}$
(c) 0 (d) bue l dkb ugh

36. ,d j l k;fud vfHkfØ;k] dku ekukD lkbM dh l kUnrk d lUnHk e f}rh; Øe dk gA ;fn dku ekukD lkbM dh l kUnrk nkxuh dj nh tk,] ¼ "k" l Hkh ?kVdk dk ,d leku ¼ fLFkj ¼ j [kr g, ½ rc vfHkfØ;k dh nj gk tk,xh

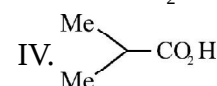
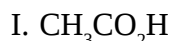
- (a) nkxuk
(b) vifjofrr gkxh
(c) rhu xuk
(d) 4 d x.kt e c<xk

37. ulp inf'kr to ;kfxd dk IUPAC uke D;k gl



- (a) 1-bromo -3- chlorocyclohexene
(b) 2- bromo -6- chlorocyclohex-1-ene
(c) 6-bromo-2-chlorocyclohexene
(d) 3- bromo-1-chlorocyclohexene.

38. fuEufyf[kr ;kfxd dh c<rh vEyh; {kerk dk lgh Øe D;k gkxk\



- (a) $\text{I} < \text{IV} < \text{III} < \text{II}$ (b) $\text{II} < \text{IV} < \text{I} < \text{III}$
(c) $\text{IV} < \text{I} < \text{III} < \text{II}$ (d) $\text{IV} < \text{I} < \text{II} < \text{III}$

39. ,d byDVku (n_0 ; $e_k = 9.1 \times 10^{-31} \text{ kg}$) dh vofLFkr dh vfuf'prrk dk 0.001 % lVhdk d nk;j e Kkr dj tk 300 ms^{-1} , d ox l xfreku g ($h = 6.63 \times 10^{-34} \text{ Js}$)

- (a) $3.84 \times 10^{-2} \text{ m}$ (b) $19.2 \times 10^{-2} \text{ m}$
(c) $5.76 \times 10^{-2} \text{ m}$ (d) $1.92 \times 10^{-2} \text{ m}$

40. Rate of a reaction can be expressed by Arrhenius equation as $K = A e^{-K/RT}$ in the equation, E represents]
- the fraction of molecules with energy greater than the activation energy of the reaction.
 - the energy above which all the colliding molecules will react.
 - the energy below which colliding molecules will not react.
 - the total energy of the reacting molecules at a temperature, T.
41. Resistance of a conductivity cell filled with a solution of an electrolyte of concentration 0.1 M is 100 Ω . The conductivity of this solution is 1.29 $S m^{-1}$. Resistance of the same cell when filled with 0.2 M of the same solution is 520 Ω . The molar conductivity of 0.02 M solution of the electrolyte will be
- $12.4 \times 10^{-4} S m^2 mol^{-1}$
 - $124 \times 10^{-4} S m^2 mol^{-1}$
 - $1240 \times 10^{-4} S m^2 mol^{-1}$
 - $1.24 \times 10^{-4} S m^2 mol^{-1}$
42. The major binding force of diamond, silicon and quartz is :
- electrostatic force
 - electrical attraction force
 - covalent bond force
 - non-covalent bond force
43. Gold number indicates :
- protective action of lyophilic colloid.
 - charge on gold solution.
 - protective action of lyophobic colloid.
 - quantity of gold dissolved in a given solution.
44. Match the compounds given in column I with the effects given in column II.

Column-I**Column-II**

- | | |
|---------------------|-------------------|
| (i) Chloramphenicol | (a) Malaria |
| (ii) Thyroxine | (b) Anaesthetic |
| (iii) Chloroquine | (c) Typhoid fever |
| (iv) Chloroform | (d) Goiter |

Codes :

- (i-c), (ii-d), (iii-a), (iv-b)
- (i-a), (ii-b), (iii-c), (iv-d)
- (i-b), (ii-c), (iii-a), (iv-d)
- (i-d), (ii-a), (iii-b), (iv-c)

40. $K = A e^{-K/RT}$ in the equation, E represents]
- the fraction of molecules with energy greater than the activation energy of the reaction.
 - the energy above which all the colliding molecules will react.
 - the energy below which colliding molecules will not react.
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 - charge on gold solution.
 - protective action of lyophobic colloid.
 - quantity of gold dissolved in a given solution.
44. Match the compounds given in column I with the effects given in column II.

dkye&I**dkye& II**

- | | |
|-------------------|----------------------------|
| (i) DykjeQfudky | (a) eyfj ;k |
| (ii) Thyroxine | (b) ,ufLFkf I ;k %funk no% |
| (iii) Chloroquine | (c) Vk ; Qk ; M Toj |
| (iv) Chloroform | (d) ?k?kk |

dv %

- (i-c), (ii-d), (iii-a), (iv-b)
- (i-a), (ii-b), (iii-c), (iv-d)
- (i-b), (ii-c), (iii-a), (iv-d)
- (i-d), (ii-a), (iii-b), (iv-c)

45. CCl_4 is a well known fire extinguisher. However after using it to extinguish fire, the room should be well ventilated. This is because :
- it is inflammable at higher temperatures
 - it is toxic
 - it produces phosgene by reaction with water vapours at higher temperatures
 - it is corrosive
46. Enzymes, vitamins and hormones can be classified into a single category of biological chemicals, because all of these
- are synthesized in the body
 - enhance oxidative metabolism
 - help in regulating metabolism
 - are proteins
47. Seal is :
- carnivorous mammal
 - herbivorous mammal
 - amphibian
 - fish
48. Which is correct matching of causative organism and the disease it causes
- Anopheles maculipennis-malaria
 - Glossina palpalis-sleeping sickness
 - Wuchereria bancrofti-filariasis
 - Leishmania donovani-sleeping sickness
49. Haemoglobin is found dissolved in blood plasma of
- cockroach
 - earthworm
 - rabbit
 - frog
50. Which group contains biocatalysts
- peptidase, amylase, rennin
 - myosin, oxytocin, adrenalin
 - rhodopsin, pepsin, steapsin
 - glucose, amino acids, fatty acids
45. CCl_4 , d ykdfi ; vfxu "keu jlk ; u g ijUr bld i ; kx d ckn] dej dk vPNh rjg l goknkj cukuk pkfg, A , lk blfy, D ; kfd&
- ; g mPp rkieku ij Toyu" khy gkrk gA
 - ; g tgjhyk gkrk gA
 - ; g mPp rkieku ij ty ok' i d l kFk vfHkfØ ; k djd Qkl thu xl cukrk gA
 - ; g tx ink djrk gA
46. fd.od] foVkfue rFkk gkjeku dk , d , dek= to jlk ; u ox e j [k l dr g D ; kfd ; l Hkh&
- 'kjhj e cur g
 - vkD l hdkjd mikp ; fØ ; k dk c<kr gA
 - mikip ; u fØ ; k d fu ; eu e enn djr gA
 - ikVhu gkr gA
47. lhy gkrk g %
- , d ek l kgkj h Lruik ; h
 - 'kdkgkj h Lruik ; h
 - mHk ; t hoh
 - eNyh
48. bue l dku jkx tud tho rFkk mld }kj k tfur jkx dk lgh lefyr ; Xe g\
- , ukfQyh t eD ; fyiful & eyfj ; k
 - Xy kfluk ikyifyl & funk jkx
 - opj fj ; k cØ k Vh & Qkbyfj ; k
 - yh'kefu ; k nkukokuh & funk jkxA
49. gheKXykfcu fdld jDr lykTek e ?kyh voLFkk e ik ; k tkrk g\
- dkdj k p % frypVV k %
 - dpvk
 - [kjxk'k
 - e<d
50. bue l fd l leg e to mRi j d g\
- i l Vh M l] , ekby l] jfu u
 - ek ; kf l u] vkD l hVkf l u] , Mhukfyu
 - jkMif l u] i l l hu] LVfl l u
 - Xydk t] , ehuk vEy] QVh vEy

PART - II**ENGLISH****Spotting Error**

Directions : Each item in this section has a sentence which is divided into parts labelled (a), (b) and (c). Read each sentence to find out whether there is any error in any part and indicate your answer in the Answer Sheet against the corresponding letter i.e., (a) (b) or (c) . If you find no error, your response should be indicated as (d).

51. Emphasis on equality of life ensures (a) / for the health and happiness (b) / of every individual (c) / No error (d)
52. Unless you stop to make noise at once (a) / I will have no option but to (b) / bring the matter to the attention of the police (c) / No error (d)
53. Not one of the hundreds (a) / of striking workers (b) / were allowed to go near the factory (c) / No error (d)
54. The students were (a) / awaiting for (b) / the arrival of the chief guest (c) / No error (d)
55. The reason for (a) / his failure is because (b) / he did not work hard(c) / No error (d)

Fill in the Blanks

Directions : Each of the following sentences in this section has a blank space and four words or group of words given after the sentence. Select whichever word or group of words you consider most appropriate for the blank space and indicate your response on the Answer Sheet accordingly.

56. He was offered a salary commensurate _____ the work.
(a) as (b) to (c) with (d) by
57. The accused _____ his involvement in the murder case.
(a) refused (b) denied (c) rejected (d) slammed
58. The government passed a new _____ against smuggling, in parliament.
(a) ordinance (b) ordnance (c) dictat (d) orders
59. The cyclone _____ without causing any great catastrophe.
(a) abetted (b) abated (c) flowed (d) embeded

Synonyms

Direction: Each item in this section consists of a word in capital letters followed by four words as (a), (b), (c) and (d). Select the word which is most nearly the same in meaning as the original word and mark the correct response as (a), (b), (c) or (d) as the case may be, in your Answer Sheet.

60. RESIDUE
(a) Remainder (b) Nothing
(c) Recede (d) Little
61. ACME
(a) Nadir (b) Lowest point
(c) Culmination (d) Zenith
62. ASKANCE
(a) Awry (b) Obliquely
(c) To look with disdain (d) Without disapprobation
63. ADUMBRATE
(a) To give a faint shadow of (b) To shadow forth
(c) To fore-shadow (d) To over shadow

Antonyms

Direction : Each item in this section consists of a word in capital letters followed by four words or phrases as (a), (b), (c) and (d). Select the word or phrase which is nearly opposite to the meaning of the original word and mark the correct response as (a), (b), (c) or (d) as the case may be, in your Answer Sheet.

64. PROLIX
 (a) Common (b) Attractive (c) Short and crisp (d) Bulging out
65. LAUD
 (a) To censure (b) To respect (c) To connive (d) To descend
66. RECOUP
 (a) To worsen (b) To strengthen (c) To trap (d) To recover
67. DROLL
 (a) Roller (b) Shout (c) Serious (d) Whimsical

Ordering of Words in a Sentence

Directions : Each of the following items in this section consists of a sentence the parts of which have been jumbled. These parts have been labelled P, Q, R and S. Given below each sentence are four sequences namely (a), (b), (c) and (d). You are required to re-arrange the jumbled parts of the sentence and select the correct sequence.

68. P : rules and regulations
 Q : he cheerfully ignored its demands
 R : a life of
 S : unaccustomed to .
 The correct order should be :
 (a) R Q P S (b) Q R P S (c) S R P Q (d) Q S R P
69. P : a person bitten by a rabid dog
 Q : would be seized by violent symptoms
 R : after an incubation period of a month or two
 S : and die an agonizing death
 The correct order should be :
 (a) P R S Q (b) S R Q P (c) P R Q S (d) P Q R S
70. P : and to decide impartially
 Q : to hear courteously, to answer wisely
 R : four things belong to a judge
 S : to consider soberly
 The correct order should be :
 (a) S Q P R (b) R Q S P (c) Q R P S (d) P Q R S
71. P : four degrees below normal
 Q : icy winds lashed Srinagar
 R : with minimum temperature registering
 S : which was already in the grip of gruelling cold wave conditions
 The correct order should be :
 (a) Q S R P (b) Q P R S (c) R Q S P (d) P Q S R

READING COMPREHENSION

Directions : *In this section, is one short passage. After the passage, you will find few questions each based on what is stated or implied in the passage. First read the passage and then answer the questions following the passage.*

PASSAGE

Our age is the age of specializations. Each one knows more about less and less. We concentrate on some narrow field and forget about the largest context in which we could see the meaning of our own specialization. Modern specialization has led to the fragmentation of knowledge. We should not only be specialists but also have a sense of the meaning of life and of social responsibility. We have to reckon with the spirit of science, understand its limitations and develop an outlook which is consistent with its findings. It is no use clinging to traditional forms which have lost their meanings. We cannot ignore the world of scientific achievement and withdraw into the inner life of contemplation. We are involved in the mechanism of the modern world and so should seek even religious truth not merely with our emotions but with our minds. We cannot ignore the scientific civilization. Nor can we drop religion. To reconcile the two is the task set for our generation.

72. The writer says that
- (a) We should not be specialists
 - (b) We should be specialists
 - (c) We should not be specialist, but have a sense of the meaning of life.
 - (d) We should be specialist and we should also have a sense of the meaning of life and of social responsibility
73. 'Fragmentation' of knowledge means
- (a) Increase of knowledge
 - (b) Assimilation of knowledge
 - (c) Splitting the knowledge into different fields
 - (d) Distribution of knowledge
74. We should seek religious truth with
- (a) Our emotions only
 - (b) Our minds only
 - (c) Our minds as well as our emotions
 - (d) Neither our minds nor our emotions
75. The writer says that we should
- (a) Follow the religious path
 - (b) Follow the scientific way
 - (c) Reject both the scientific way and the religious path
 - (d) Adopt both the scientific way and the religious path and try to remove the contradictions.

GENERAL AWARENESS

76. Consider the following statements :

In the context of Indian constitution the directive principles of state policy :

1. Puts limitations on the function of legislature
2. Puts limitations on the functions of executive

Which of the above statement is/are true?

- (a) Only 1 (b) Only 2
(c) 1 & 2 (d) Neither 1 nor 2

77. Consider the following statements :

1. The Election Commission of India is a five member body
2. The Union Home Ministry decides the election programme both for General as well as by elections
3. The Election Commission settles the disputes regarding division/merger of recognised political parties

Which of the above statements is/are true?

- (a) 1 and 2 (b) Only 2
(c) 2 & 3 (d) Only 3

78. The picture of Bodhisatva Padmpani is the most famous and usually an illustrated form of drawing/ painting which is located in?

- (a) Ajanta (b) Badami
(c) Bagh (d) Ellora

79. During the Civil Disobedience movement, which of the following Riyasats (Princely State) did not support congress?

- (a) Bhavnagar (b) Mysore
(c) Junagarh (d) Kathiawar

80. The Vice-President of India is :

1. The second highest dignitary of India.
2. has no responsibility related to his post.
3. Act's as the President in his absence.
4. In case of President's resignation, removal or death, he works as the President.

Choose the correct answer from the codes given below :

- (a) 1 and 2 (b) 1, 2 and 3
(c) 1, 3 and 4 (d) All these

76. fuEufyf[kr dFkuk ij fopkj dhft , %

Hkkjr d lfo/kku d lUnHk e] jkT; d uhr fun'kd rRo

- 1- fo/kf;dk d dR;k ij fucU/ku yxkr gA
- 2- dk;ikfydk d dR;k ij fuc/ku yxkr gA

mijDr d Fkuk e l dku&l@l lgh g@g\

- (a) doy 1 (b) doy 2
(c) 1 vkj 2 (d) u rk] 1] u gh 2

77. fuEufyf[kr dFkuk ij fopkj dhft , %

1- Hkkjr dk fuokpu vk;kx ikp&lNL;h; fudk; gA

2- l?k dk xg eu=ky;] vke puko vkj mi&pukok nkuk d fy, puko dk;Øe r; djrk gA

3- fuokpu vk;kx eku;rk&ikl jktuhrd nyk d foHkk tu@foy; l lEcfu/kr fookn fuiVkrk gA

mijDr dFkuk e l dku&l@l lgh g@g\

- (a) 1 vkj 2 (b) doy 2
(c) 2 vkj 3 (d) doy 3

78. ckf/k lRo ineikf.k dk fp= lokf/kd ifl) vkj ik;% vkj[k fp=dkjh g] tk

- (a) vtUr e g (b) cnkeh e g
(c) ck?k e g (d) ,yjk e g

79. lfou; voKk vkUnkyu d nkju] fuEufyf[kr e l fd l fj;k l r u dkx l dk leFku ugh fd;k\

- (a) Hkkouxj (b) elj
(c) tukx< (d) dkfB; kokM

80. Hkkjr dk mi&jk"Vifr

1- Hkkjr dk f}rh; mPpre ifrf"Br in/kjh gA

2- d ikl in l lEcfu/kr dkb vkipkfjd dk; %nkf;Ro% ugh gA

3- jk"Vifr dh vuifLFkr e mld dk;k dk fuogu djrk gA

4- jk"Vifr }kj in R;kx] vinLFkdj.k vFkok eR; d le; jk"Vifr d : i e dk; djrk gA

uhp fn, x, dV l lgh mUkj pfu,A

- (a) 1 ,o 2 (b) 1] 2 ,o 3
(c) 1] 3 ,o 4 (d) ; l Hkh

81. Who among the followings had produced the opinion for the formation of constituent assembly in India?
- (a) Simon Commission
(b) Rajaji Formula
(c) Cabinet Mission Plan
(d) Vavel Plan
82. Which of the followings Act provided for Federal Government in India?
- (a) Government of India Act-1909
(b) Government of India Act-1919
(c) Government of India Act-1935
(d) Government of India Act-1947
83. Which among the following provisions of the Indian Constitution affect the education?
1. Directive Principle of State Policy
 2. Rural and Urban Local Bodies
 3. 5th Schedule
 4. 6th Schedule
 5. 7th Schedule
- Give the correct answer on the basis of following codes :
- (a) 1 and 3 (b) 3, 4 and 5
(b) 1, 2 and 5 (d) All these
84. Who is said to be the saviour of Indian News Papers?
- (a) Lord Ripon (b) Lord Lyton
(c) Lord Hestings (d) Charles Metcoff
85. Which was the first Indian State to come under the 'doctrine of lapses' policy of Dalhousie?
- (a) Sambhalpur (b) Satara
(c) Udaipur (d) Nagpur
86. "The issue of Deccan became as destructive for Mughal Empire as the issue of Spain for the Napolian."
Who commented it on Deccan policy of Aurangzeb?
- (a) Manoochi (b) Bernier
(c) Tavernier (d) Gulam Hussain
81. fuEufyf[kr e l fd l ,d u Hkkjr d fy, lfo/kku l Hkk d xBu d k dk fopkj fn; \
- (a) l kbeu deh'ku
(b) j k t k t h Qkeyk
(c) dfcuV fe'ku ; k t uk
(d) ooy ; k t uk
82. fuEufyf[kr e l fd l ,d vf/kfu;e u Hkkjr e l ?kh; &'kk l u dh 0; oLFkk nh Fkh \
- (a) Hkkjr l jdkj vf/kfu;e] 1909
(b) Hkkjr l jdkj vf/kfu;e] 1919
(c) Hkkjr l jdkj vf/kfu;e] 1935
(d) Hkkjr l jdkj vf/kfu;e] 1947
83. Hkkjrh; lfo/kku d fuEufyf[kr e l dku&l iko/kku f'k{kk ij iHkko Mkyr g \
- 1- j k T; d uhfr fun'kd rRo
 - 2- xkeh.k vkj 'kgjh LFkkuh; fudk;
 - 3- ikpoh vulph
 - 4- NBh vulph
 - 5- lkroh vulph
- fuEufyf[kr dV k d vk/kkj ij lgh mRrj pfu,
- (a) 1 vkj 2 (b) 3] 4 vkj 5
(c) 1] 2 vkj 5 (d) ; l Hkh
84. Hkkjrh; lekpkj i=k dk efDr nkrk fd l dgk tkrk g \
- (a) ykM fjiu (b) ykM fyVu
(c) ykM gflVx (d) pkYl eVdkQ
85. Mygkth dh 0;ixr uhfr dk f'kdj gku okyk igyk Hkkjrh; j k T; Fkk \
- (a) l Hkyij (b) l rkjk
(c) mn; ij (d) ukxij
86. ^;g nDdu dk uk l j exy lekT; d fy, mruk gh ?kkrd fl) gvk ft ruk uikfy;u d fy, Liu dk uk l j A**
- vkjxtc dh nDdu uhfr ij ;g fVli.kh fd l dh g \
- (a) euph (b) cfu; j
(c) Vofu; j (d) xye glu

87. Which type of stone were used in Mathura Art?
 (a) White Marble (b) Red Sand Stone
 (c) Black Marble (d) Quartz
88. The metallic coins were found at first during which period?
 (a) Vedic Era (b) Budhist Era
 (c) Maurya Era (d) Gupta Era
89. The comets revolve around :
 (a) Sun
 (b) Mars
 (c) Jupiter
 (d) No single heavenly body
90. The Karakoram Highway connects which of the following two countries?
 (a) India- Nepal (b) China-India
 (c) China-Pakistan (d) India-Pakistan
91. Which state has the longest coast line in India?
 (a) Tamil Nadu (b) Gujarat
 (c) Andhra Pradesh (d) West Bengal
92. Which two seas are connected by the Suez canal?
 (a) Red Sea & Arabian Sea
 (b) Red Sea & Mediterranean Sea
 (c) Arabian Sea & Mediterranean Sea
 (d) North Sea & Adriatic Sea
93. Coal & Petroleum is found in :
 (a) Igneous Rock (b) Sedimentary Rock
 (c) Metamorphic Rock (d) None of these
94. Find the incorrect pair :
 (a) Gneiss - Granites
 (b) Amphibolites - Basalt
 (c) Schist - Basalt
 (d) Quartzite - Basalt
95. Juan-de-Fuca plate belongs to
 (a) Europe (b) North America
 (c) Africa (d) Japan
96. Which solution has been proposed by the Union Home Minister Rajnath Singh to counter Naxal violence?
 (a) SAADHAN (b) SAMRIDDHI
 (c) SAMADHAN (d) SAMARPAN
87. eFjk efrdyk e fd l idkj d iRFjk dk i;kx fd;k x;k Fkk\
- (a) lQn lxejej (b) yky cyvk iRFjk
 (c) dkyk lxejej (d) DokVt
88. /kk d fldd loiFke fd l ;x e iklr g, g\
- (a) ofnd ;x (b) ck) ;x
 (c) ek; ;x (d) xlr ;x
89. /kedr pkjk vkj ?ker g %
- (a) l ; d
 (b) exy d
 (c) cglifr d
 (d) fd l h ,d vrfj{ k fi.M d ugh
90. dkjkdje jktekx bue l fdu nk n'kk dk tMrk g\
- (a) Hkkjr&uiky (b) phu&Hkkjr
 (c) phu&ikfdLrku (d) Hkkjr&ikfdLrku
91. Hkkjr d fd l jkT; dh lcl ych rVh; lhek g\
- (a) rfeyukM (b) xtjkr
 (c) vku/k in'k (d) if'pe cxky
92. bue l dku l nk len Lot ugj l tM g\
- (a) yky lxxj rFkk vjc lxxj
 (b) yky lxxj rFkk Hke/; lxxj
 (c) vjc lxxj rFkk Hke/; lxxj
 (d) mYkj h lxxj rFkk ,fM;kfVd lxxj
93. dk;yk rFkk iVkyf;e ik;k tkrk g %
- (a) vKXu; 'kyk e (b) volknh 'kyk e
 (c) : ikrfjr 'kyk e (d) bue l dkb ugh
94. bue l vlefy r ;Xe dk fpflgr dj %&
- (a) ukb l & xukbV
 (b) ,EQhckykbV l & clKYV
 (c) f'k"V & clKYV
 (d) DokVt kbV & clKYV
95. t vku&Mh&f;dk lyV fd l egk}hi l lEc) g\
- (a) ;jki (b) mYkj h vefjdk
 (c) vYhdk (d) tkiku
96. dUnh; xge=h jktukFk flg u uDlyh flg l l fuiVu gr dku l k lek/kku iLrkfor fd;k g\
- (a) l k/ku (b) l ef)
 (c) lek/kku (d) lei.k

- | | |
|--|---|
| <p>97. Which of the following has won French presidential election?</p> <p>(a) Francois Hollande
(b) Nicolas Sarkozy
(c) Emmanuel Macron
(d) Le Pen</p> | <p>97. bue l fd lu Ýk l d jk"Vifr puko e thr gkfly dh g\</p> <p>(a) ÝkUdkbl gky.M
(b) fudky l ljdk th
(c) beuvy eØku
(d) y^h iu</p> |
| <p>98. Who has been honoured with Woodrow Wilson Award 2017?</p> <p>(a) Shikha Sharma
(b) Chanda Kochhar
(c) Indira Nooyi
(d) Arundhati Bhattacharya</p> | <p>98. fd l 0; fDRk dk o" k 2017 dk oMjk foY lu ijLdkj inku fd ;k x ;k g\</p> <p>(a) f'k[kk 'kek
(b) pUnk dkpj
(c) bfUnjk ub
(d) v : U/krh HkVVkpk ;k</p> |
| <p>99. In which of the following state, "Cordon And Combing" operation was launched recently?</p> <p>(a) Jammu and Kashmir
(b) Chhattisgarh
(c) Assam
(d) Manipur</p> | <p>99. bue l fd l jkT ; e gky e gh ^, d l ?ku ?kjkc nh rFkk ryk'kh** vfhk ;ku pyk ;k x ;k \</p> <p>(a) tEEk vkj d'ehj
(b) NÙkh lx<
(c) vle
(d) ef.kij</p> |
| <p>100. In whose memory, National Anti Terrorism Day is observed?</p> <p>(a) Rajiv Gandhi
(b) Indira Gandhi
(c) Jawahar Lal Nehru
(d) M.K. Gandhi</p> | <p>100. fd l dh ;kn e ^jk"Vh ; vkrdokn jk/kd fno l* euk ;k tkrk g\</p> <p>(a) jk t ho xk/kh
(b) bfUnjk xk/kh
(c) tokgj yky ug :
(d) ,e-d- xk/kh</p> |

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- 1- ijh{k.k ikjEHk gku d rjUr ckn] vki bl ijh{k.k iFLrdk dh iMrky vo"; dj y fd ble dkb fcuk Nik] QVv ;k NVk gvk i'B vFkok i"ukd vkfn u gkA ;fn ,lk g] rk bl lgh ijh{k.k iFLrdk l cny yHft,A
- 2- —i;k /;ku j[k fd OMR mYkj&i=d e] mFpr LFku ij] jky uEcj /;ku l ,o fcuk fd l h pd ;k folxfr d Hkju vkj dVc) dju dh fEenkh mEehnokj dh gA fd l h Hkh idkj dh pd@folxfr dh fLFkr e mYkj&i=d fujLr dj fn;k tk,xkA
- 3- bl ijh{k.k iFLrdk ij lFk e fn, x, dk'Bd e vkidk viuk vuØkd fy[kuk gA ijh{k.k iFLrdk ij vkj dN u fy[kA
- 4- bl ijh{k.k iFLrdk e dy 100 i"ukd %i"u% fn, x, g] Hkx i & xf.kr] foKku vkj Hkx II - vxth] lkeU; lprrkA iR;d i"ukd e pkj iR;Ykj %mYkj% fn, x, gA bue l ,d iR;Ykj dk pu y] ftl vki mYkj&i=d ij vfdr djuk pkgr gA ;fn vkidk ,lk yx fd ,d l vf/kd iR;Ykj lgh g] rk ml iR;Ykj dk vfdr dj tk vkidk lokYe yxA iR;d i"ukd d fy, doy ,d gh iR;Ykj puuk gA
- 5- vkidk viu lHkh iR;Rrj vyx l fn, x, mRrj&i=d ij gh vfdr dju gA mRrj&i=d e fn, x, fun"n nf[k,A
- 6- çR;d ç'uk"n pkj %4% vd dk gA
- 7- bl lgy fd vki ijh{k.k iFLrdk d foHku i"uk"n d iR;Rrj mRrj&i=d ij vfdr djuk "k: dj] vkidk io"n iek.k&i=d lFk if'kr vun"n d vulkj dN foj.k mRrj&i=d e nu gA
- 8- vki viu lHkh iR;Rrj dk mRrj&i=d e Hkju d ckn rFk ijh{k.k d leku ij doy mRrj&i=d v/khkd dk lki nA vkidk viu lFk ijh{k.k iFLrdk y tku dh vuefr gA
- 9- dPp dke d fy, i=d ijh{k.k iFLrdk d vUr e lyXu gA
- 10- xyr mRrj d fy, n.M olrfu'B i"u&i=k e mEehnokj }kjk fn, x, xyr mYkj d fy, n.M fn;k tk,xkA
 - (i) iR;d i"u d fy, pkj odfYir mRrj gA mEehnokj }kjk iR;d i"u d fy, fn, x, ,d xyr mRrj d fy, i"u gr fu;r fd, x, vdk dk ,d %1% vd n.M d : i e dVv tk,xkA
 - (ii) ;fn dkb mEehnokj ,d l vf/kd mRrj nrk g] rk bl xyr mYkj ekuk tk,xk] ;fi fn, x, mYkj e l ,d mYkj lgh gkrk g] fQj Hkh ml i"u d fy, mi;Drkulj gh ml h rjg dk n.M fn;k tk,xkA
 - (iii) ;fn mEehnokj }kjk dkb i"u gy ugh fd;k tkrk g vFkr mEehnokj }kjk mYkj ugh fn;k tkrk g] rk ml&i"u d fy, dlb n.M ugh fn;k tk,xkA

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