

**SPECIAL FOR PHARMACIST EXAMS**

# NON-PHARMA KIT

*Competitive Examination*

WITH DIGITAL SOLUTION

## REAS NING

### APTITUDE, G.K & G.S

*Practice Book*

**USEFUL FOR**

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*Competitive Examination*

**WITH DIGITAL SOLUTION  
REASONING, APTITUDE, G.K & G.S PRACTICE BOOK**

**AN IDEAL BOOK FOR**

RRB, AIIMS, ESIC, DSSSB, OSSSC, OSSC, GSSSB, HPSSC, HSSC,  
UPSSSC, KERALA PSC, ISRO, SSB, SEPOY, ITBP, BSF, CRPF, SBI, SECL, NCL,  
BHEL, CGHS, IIT, NHM, KPSC, MPNHM, UPNHM, RUHS,  
TNMRB, SSC, CU, DHS, MPSC ETC.



**PHARMACY INDIA PUBLICATION**

# TABLE OF CONTENT

## General Arithmetic's (Section-1)

S.No	Sections and Contents	Page No.	S.No	Sections and Contents	Page No.
1.	Number systems	1-3	10.	Simple and Compound Interest	32-35
2.	BODMAS	4-6	11.	Profit and Loss	36-38
3.	Decimals & Fractions	7-9	12.	Algebra	39-40
4.	LCM and HCF	10-12	13.	Geometry	41-43
5.	Ratio and Proportion	13-16	14.	Trigonometry	44-46
6.	Percentages	17-20	15.	Square Root	47-49
7.	Mensuration	21-23	16.	Age Calculations	50-51
8.	Time and Work	24-27	17.	Calendar & Clock	52-54
9.	Time and Distance	28-31	18.	Pipes & Cistern	55-58

## General Intelligence and Reasoning (Section-2)

1.	Analogies	59-60	8.	Data Interpretation and Sufficiency	83-87
2.	Alphabetical and Number Series	61-62	9.	Similarities and Differences	88
3.	Coding and Decoding	63-65	10.	Analytical reasoning	89-91
4.	Mathematical operations	66-69	11.	Classification	92-93
5.	Relationships	70-73	12.	Directions	94-98
6.	Syllogism	74-79	13.	Statement – Arguments and Assumptions etc.	99-107
7.	Venn Diagram	80-82			

## General Awareness (Section-3)

1.	Indian Geography	108-112
2.	Culture and history of India including the freedom struggle	113-125
3.	Indian Polity and constitution	126-137
4.	Indian Economy	138-146
5.	Environmental issues concerning India and the World	147-154
6.	Sports	155-161
7.	General scientific and technological developments etc.	162-167

## General Science (Section-4)

1.	Physics	168-178
2.	Chemistry	179-192
3.	Biology	192-201



*General*  
**ARITHMETIC'S**

SAMPLE

# 1

# Number Systems



1. The sum of all those prime numbers which are less than 31 is  
 (a) 119 (b) 129  
 (c) 132 (d) 137
2. The sum of all even numbers between 21 and 51 is  
 (a) 518 (b) 540  
 (c) 560 (d) 596
3. Which of the following is one of the factors of the sum of first 25 natural numbers  
 (a) 26 (b) 24  
 (c) 13 (d) 12
4. The digit in the unit place of the product  $(2464)^{1793} \times (615)^{317} \times (131)^{491}$  is  
 (a) 0 (b) 2  
 (c) 3 (d) 5
5. The digit in the unit place of  $[(251)^{98} + (21)^{29} - (106)^{100} + (705)^{35}]$  is  
 (a) 1 (b) 4  
 (c) 5 (d) 6
6. Find the remainder value in the following expression  

$$\frac{(23^2 + 29^2 + 31^2 + 37^2)}{24}$$
 (a) 13 (b) 17  
 (c) 4 (d) 3
7. Find the value of given series  
 $1-2+3-4+5-6+\dots+95-96+97-98$   
 (a) 49 (b) 53  
 (c) -49 (d) -53
8. Find the total number of zeros in the following series  
 $2 \times 4 \times 6 \times \dots \times 248 \times 250$   
 (a) 31 (b) 37  
 (c) 39 (d) 43
9.  $101 \times 102 \times 103 \times 104$  is a number which is always divisible by the greatest number in the given option.  
 (a) 6 (b) 24  
 (c) 48 (d) 16
10. Find the number of total prime numbers up to 100  
 (a) 27 (b) 23  
 (c) 25 (d) 26
11. When two numbers are separately divided by 33, the remainders are 21 and 28 respectively. If the sum of the two numbers is divided by 33, the remainder will  
 (a) 10 (b) 12  
 (c) 14 (d) 16
12. In a question of division, the divisor is 7 times the quotient and 3 times the remainder. If remainder is 28, then the dividend is  
 (a) 588 (b) 784  
 (c) 823 (d) 1036
13. If  $17^{200}$  is divided by 18, the remainder is  
 (a) 17 (b) 16  
 (c) 1 (d) 2
14. Which of the following numbers is not divisible by 18  
 (a) 54036 (b) 50436  
 (c) 34056 (d) 65043
15. It is given that  $(2^{32}+1)$  is exactly divisible by a certain number. Which one of the following is also definitely divisible by the same number.  
 (a)  $2^{96}+1$  (b)  $7 \times 2^{33}$   
 (c)  $2^{16}-1$  (d)  $2^{16}+1$
16. The least number among  $\frac{4}{9}, \sqrt{\frac{9}{49}}, 0.45$  and  $(0.8)^2$  is  
 (a)  $\frac{4}{9}$  (b)  $\sqrt{\frac{9}{49}}$   
 (c) 0.45 (d)  $(0.8)^2$
17. The number 0.121212..... in the form  $\frac{p}{q}$  is



1. Evaluate:  
 $6202.5+620.25+62.025+6.2025+0.62025$   
 (a) 6134.76555 (b) 6891.50000  
 (c) 6891.59775 (d) 6451.59775
2. Evaluate:  $5.064+3.98 +0.7036+7.6+0.3+2$   
 (a) 15.5724 (b) 19.4676  
 (c) 20.6456 (d) 19.6476
3. Evaluate:  $31.004-17.2368$   
 (a) 13.7654 (b) 13.6543  
 (c) 13.7644 (d) 13.6754
4. Find the products:  $6.3204 \times 100$   
 (a) 6320.4 (b) 632.04  
 (c) 63.204 (d) 6320.04
5. Find the product:  $2.61 \times 1.3$   
 (a) 3.393 (b) 3.03702  
 (c) 0.002560 (d) 1.9832
6. Given that  $268 \times 74 = 19832$ , find the values of  $2.68 \times 0.74$ .  
 (a) 1.2389 (b) 1.9832  
 (c) 3.234 (d) 3.432
7. Find the quotient:  $\frac{0.0204}{17}$   
 (a) 0.7 (b) 0.0012  
 (c) 0.2431 (d) 0.0025
8. If  $\left(\frac{1}{3.718}\right) = 0.2689$ , then find the value of  $\left(\frac{1}{0.0003718}\right)$   
 (a) 3456 (b) 2689  
 (c) 2869 (d) 6280
9.  $\frac{2}{7} - 3\frac{4}{7} + 18\frac{1}{2} = \frac{x}{7} + 15\frac{1}{2}$   
 (a) 7 (b) 5 (c) 57 (d) 15
10.  $4\frac{7}{12} + 6\frac{5}{6} - 8\frac{3}{4} = ? + 1\frac{2}{3}$   
 (a) 1 (b) 2 (c) 3 (d) 4
11.  $? + 13\frac{1}{6} + 6\frac{5}{6} = 24$   
 (a) 1 (b) 8 (c) 4 (d) 6
12.  $5\frac{1}{2} - 4\frac{1}{3} = ? - 4$   
 (a)  $5\frac{1}{4}$  (b)  $4\frac{7}{12}$  (c)  $4\frac{5}{6}$  (d)  $5\frac{1}{6}$
13.  $8\frac{4}{7} + 9\frac{3}{4} - ? = 6\frac{19}{28}$   
 (a)  $11\frac{9}{14}$  (b)  $11\frac{8}{14}$  (c)  $11\frac{17}{28}$  (d)  $11\frac{3}{7}$
14.  $8\frac{3}{4} + 4\frac{1}{4} - 3\frac{1}{2} = ? + 7\frac{1}{3}$   
 (a)  $2\frac{3}{10}$  (b) 2 (c) 3 (d)  $2\frac{7}{10}$
15.  $3\frac{1}{4} + ? = 7\frac{1}{8} + 2\frac{1}{12}$   
 (a)  $4\frac{1}{24}$  (b)  $5\frac{23}{24}$   
 (c)  $8\frac{1}{24}$  (d)  $10\frac{1}{24}$
16.  $3\frac{2}{3} + 4\frac{3}{5} + 2\frac{1}{2} = ? + 5\frac{1}{6}$   
 (a)  $6\frac{5}{6}$  (b)  $5\frac{3}{5}$   
 (c)  $4\frac{3}{4}$  (d)  $7\frac{3}{5}$
17. The value of  $5463 + 546.3 - 54.63 \div ? = 599$   
 (a) 0.5463 (b) 0.05463  
 (c) 5.463 (d) 5.346
18. What is the difference between the biggest to smallest fraction among  $\frac{2}{3}, \frac{3}{4}, \frac{4}{5}$  and  
 (a)  $\frac{1}{6}$  (b)  $\frac{1}{12}$   
 (c)  $\frac{1}{20}$  (d)  $\frac{1}{30}$
19. The value of  $3.\overline{87} - 2.\overline{59}$  is  
 (a) 1.20 (b) 1.2 (c) 1.27 (d) 1.28
20. The value of  $0.34\overline{67} + 0.13\overline{33}$  is equal to  
 (a)  $0.4\overline{8}$  (b)  $0.\overline{48}$  (c)  $.48\overline{01}$  (d) 0.48

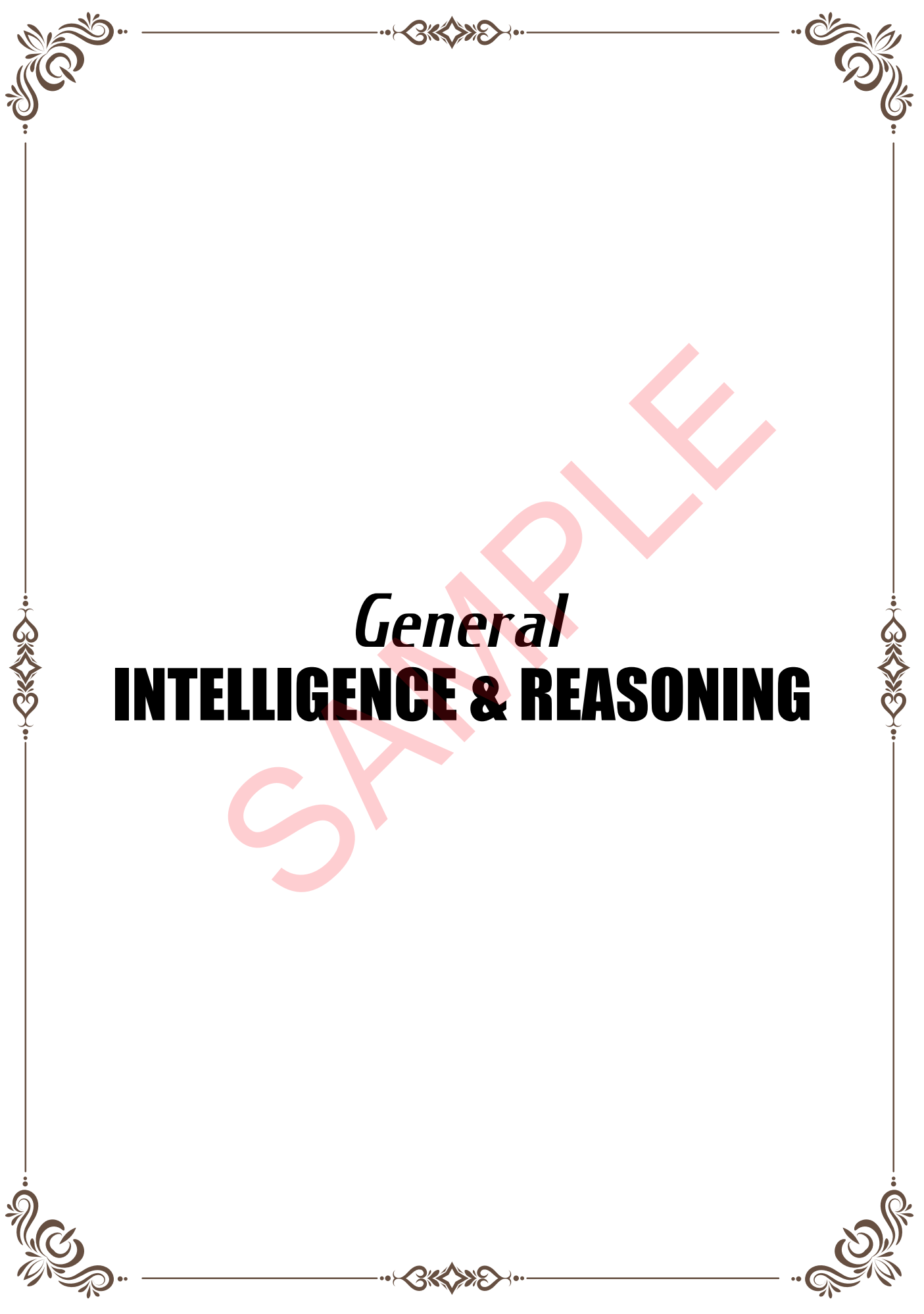


1. The HCF of two numbers is 8. Which one of the following can never be their LCM?  
(a) 24 (b) 48  
(c) 56 (d) 60
2. The LCM of two number is 96 and their HCF is 4. If one of the number is 52, then the other is  
(a) 40 (b) 42  
(c) 50 (d) 52
3. The LCM of two numbers is 520 and their HCF 48 one of the numbers is 52, then the other number is  
(a) 132 (b) 135  
(c) 140 (d) 144
4. The product of two numbers is 216. If the HCF is 6. then their LCM is  
(a) 72 (b) 60  
(c) 48 (d) 36
5. Two numbers are in the ratio 3:4. If their HCF then their LCM is 4  
(a) 48 (b) 42  
(c) 36 (d) 24
6. The LCM of two numbers, which are multiples of 12 is 1056. If one of the numbers is 132, the other number in  
(a) 12 (b) 72  
(c) 96 (d) 132
7. Two numbers are in the ratio 3: 4. The product of their HCF and LCM is 2028. The sum of the numbers is  
(a) 68 (b) 72  
(c) 86 (d) 91
8. Two numbers are in the ratio 3: 4. If their LCM is 240, the smaller of the two number is  
(a) 100 (b) 80  
(c) 60 (d) 50
9. The HCF of two numbers is 16 and their LCM is 160. If one of the number is 32, then the other number is  
(a) 48 (b) 80  
(c) 96 (d) 112
10. The product of two numbers is 4107. If the HCF of the numbers is 37, the greater number is  
(a) 185 (b) 111  
(c) 107 (d) 101
11. Three tankers contain 403 L, 434 L, 465 L, of diesel, Respectively. Then, the maximum capacity of container that can measure the diesel of the three containers in exact number of times is  
(a) 31 L (b) 62 L  
(c) 41 L (d) 84 L
12. A, B and C start together from the same point to travel around a circular path of 30 km in circumference. A and B are travelling in the same direction and C in the opposite direction. If A travels 5 km, B travels 7 km and C travels 8 km in an hour, then they all come together again after  
(a) 25 h (b) 30 h  
(c) 15 h (d) 20 h
13. The traffic lights at three different road crossings change after 24 s, 36 s and 54 s, respectively. If they all change simultaneously at 10:15:00 am, then at what time will they again change simultaneously?  
(a) 10:16:54 am (b) 10:18:36 am  
(c) 10:17:02 am (d) 10:22:12 am
14. Sum of two numbers is 384, HCF of the numbers is 48. The difference of the number is  
(a) 100 (b) 192  
(c) 288 (d) 336
15. The sum of two numbers is 45. Their difference is  $\frac{1}{9}$  of their sum, their LCM is  
(a) 200 (b) 250  
(c) 100 (d) 150
16. The ratio of the sum to the LCM of two natural numbers is 7: 12. If their HCF is 4, then the smaller number is  
(a) 20 (b) 16  
(c) 12 (d) 8
17. If the students of a class can be grouped

- (a) Rs 12580 (b) Rs 13160  
(c) Rs 13020 (d) Rs 12760
46. An amount of money is to be divided among P, Q and R in the ratio of 3:5:7, respectively. If the amount received by R is Rs 4,000 more than the amount received by Q, what will be the total amount received by P and Q together?  
(a) Rs 8,000 (b) Rs 12,000  
(c) Rs 16,000 (d) Cannot be determined
47. A cat takes 5 leaps for every 4 leaps of a dog but 3 leaps of the dog are equal to 4 leaps of the cat. What is the ratio of the speeds of the cat to that of the dog?  
(a) 11:15 (b) 15:11  
(c) 16:15 (d) 15:16
48. Nandita scores 80% marks in five subjects together, viz, Hindi, Science, Mathematics, English and Sanskrit, where in the maximum marks of each subject were 105. How many marks did Nandita score in Science, if she scored 89 marks in Hindi, 92 marks in Sanskrit, 98 marks in Mathematics and 81 marks in English?  
(a) 60 (b) 75  
(c) 65 (d) 70
49. Out of 120 applications for a post, 70 are males and 80 have a driver's license. What is the ratio between the minimum to maximum number of males having driver's license?  
(a) 1:2 (b) 2:3  
(c) 3:7 (d) 5:7
50. In a factory, the ratio of the numbers of employees of three types A, B and C is 9: 13: 18 and their wages are in the ratio of 10:7: 4. If number of employees of type C is 54 and wages of every employee of type B is Rs 1400, then find the total wages of all the employees of type A?  
(a) Rs 51000 (b) Rs 54000  
(c) Rs 56000 (d) Rs 57000

<b>Answer Key</b>
-------------------

1-d	2-b	3-a	4-c	5-a	6-c	7-c	8-c	9-b	10-b
11-b	12-d	13-b	14-a	15-c	16-a	17-d	18-d	19-b	20-c
21-b	22-b	23-b	24-c	25-b	26-a	27-c	28-a	29-a	30-a
31-a	32-a	33-a	34-a	35-a	36-a	37-b	38-c	39-a	40-c
41-a	42-d	43-b	44-d	45-d	46-c	47-d	48-a	49-c	50-b



*General*  
**INTELLIGENCE & REASONING**

SAMPLE



1. **XgmE : EmgX::?: Back**  
 (a) AckB (b) KcaC  
 (c) KcaB (d) KacC
2. **GH: 78:: EF:?**  
 (a) 34 (b) 45 (c) 56 (d) 78
3. **CEDH: HDEC::?: PNRV**  
 (a) VRNP (b) RNPV  
 (c) NRVP (d) VNRP
4. **PZQW: NXOU:: FISK:?**  
 (a) EFPJ (b) FERI  
 (c) DGQI (d) HKVM
5. **Light: Darkness :: Knowledge:**  
 (a) Ignorance (b) Intelligence  
 (c) Brightness (d) Greative
6. **Scissors: Cloth::?**  
 (a) Pen: Ink (b) Razor: Beard  
 (c) Furnace: Smoke (d) Nail: Hammer
7. **KML:NPO:: CED:?**  
 (a) EGF (b) GHF  
 (c) FHG (d) HGF
8. **ADGJ: MPSV::?: NQTW**  
 (a) BEHK (b) EHKM  
 (c) DGJN (d) QTVZ
9. **Upset: Setup:: Tiptop:?**  
 (a) Totpop (b) Totpip  
 (c) Tippop (d) Toptip
10. **20:30::?:72**  
 (a) 56 (b) 59 (c) 68 (d) 61
11. **342:453: 831:?**  
 (a) 942 (b) 720  
 (c) 922 (d) 740
12. **30:130::?:?**  
 (a) 20:120 (b) 37:210  
 (c) 42: 222 (d) 49:350
13. **SORROW: CRY :: MIRTH:?**  
 (a) JOY (b) LAUGHTER  
 (c) FROWN (d) WEEP
14. **Love: Hate:: Proud:?**  
 (a) Sorrowful (b) Miserable  
 (c) Humble (d) Conceited
15. **3:30::5:?**  
 (a) 135 (b) 130 (c) 140 (d) 145
16. **CFDB: XUWY:: GJHF:?**  
 (a) SPRT (b) TSQU  
 (c) TQSU (d) SPTR
17. **Bore: 10:: Hotel:?**  
 (a) 12 (b) 15 (c) 18 (d) 30
18. **2:7::6:?**  
 (a) 40 (b) 39 (c) 50 (d) 72
19. **24:27= ?:: 81**  
 (a) 8 (b) 62 (c) 72 (d) 82
20. **47:65::59:?**  
 (a) 95 (b) 110 (c) 106 (d) 118
21. **ACEG: SUWY :: BDFH:?**  
 (a) TVZX (b) RTZV  
 (c) TVXZ (d) RTVZ
22.  $\frac{M}{AC} : \frac{N}{AD} : \frac{O}{AE} : ?$   
 (a)  $\frac{P}{AF}$  (b)  $\frac{Q}{AB}$   
 (c)  $\frac{P}{AC}$  (d)  $\frac{R}{AD}$
23. **5:27::9:?**  
 (a) 83 (b) 81 (c) 36 (d) 18
24. **6:11::11:?**  
 (a) 6 (b) 17 (c) 21 (d) 30
25. **ABE:8:: KLO:?**  
 (a) 37 (b) 39 (c) 38 (d) 36
26. **ADBC: EHFG :: ILJK:?**  
 (a) MOPN (b) MPNO  
 (c) ORPQ (d) MPON
27. **Fox: Cunning:: Rabbit:?**  
 (a) Courageous (b) Dangerous  
 (c) Timid (d) Ferocious

## 4

## Mathematical Operations



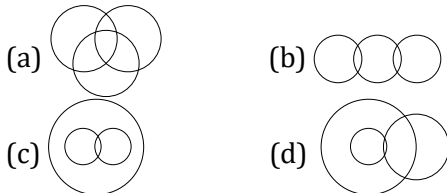
- If 'x' means '-', '-' means '÷', '+' means 'x' and '÷' means '+', then what will be the value of the following expression?  $16 - 8 + 4 \div 3 * 9 =$   
(a) 10 (b) 19 (c) 2 (d) 9
- Some equations are solved on the basis of a certain system. On this basis, find out the correct answer from amongst the four alternatives for the unsolved equation:  
 $A = 3(21) 247, B = 5(?)407 C = 7(49) 567$   
(a) 28 (b) 25 (c) 35 (d) 38
- $7 * 5 * 4 = 57354, 8 * 7 * 3 = 78563$ , then  $6 * 8 * 5 =$   
(a) 86585 (b) 86855  
(c) 68485 (d) 86485
- $a = 4(369)9, b = 6(246)4, 4 c = 7(?)3$   
(a) 303 (b) 213  
(c) 413 (d) 503
- Which one of the following is incorrect?  
 $6 * 3 * 4 * 5$   
(a)  $\div, +, >$  (b)  $+, >, \div$   
(c)  $>, \div, +$  (d)  $+, <, \div$
- Some equations are solved on the basis of certain systems. On the same basis find out the correct answer for the unsolved equation. If  $13 \times 12 = 651$  and  $41 \times 23 = 448$ , then  $24 \times 22 = ?$   
(a) 504 (b) 46 (c) 528 (d) 924
- If  $> = \div, \vee = x, < = +, \wedge = -, + = =, x = <, - = >$  than which of the following is correct.  
(a)  $6 > 2 > 3 \wedge 8 \vee 4 + 13$   
(b)  $6 \wedge 2 < 3 > 8 < 4 - 13$   
(c)  $6 \vee 2 < 3 \wedge 8 > 4 * 13$   
(d)  $6 > 2 \vee 3 < 8 \wedge 4 + 13$
- Which one of the following is correct?  
 $96 * 6 * 8 * 2$   
(a)  $+, =, x$  (b)  $x, =, \div$   
(c)  $=, +, x$  (d)  $=, x, \div$
- Some equations are solved on the basis of certain systems. On the same basis find out the correct answer from amongst the four alternatives for the unsolved equation in the question.  
 $a = 12 (390) 8, b = 7 (134) 5, c = 5 (?) 12$   
(a) 299 (b) 289 (c) 279 (d) 280
- Some equations are solved on the basis of a certain system. On the same basis, find the correct answer of the unsolved equation. If  $837 = 452$  and  $106 = 769$ , then  $708 \div 77 =$   
(a) 9 (b) 10 (c) 11 (d) 12
- Select correct combination (sequence) of mathematical signs to replace \* signs to balance the equation:  
 $9 * 4 * 22 * 14$   
(a)  $x = -$  (b)  $x = -$   
(c)  $= - x$  (d)  $- x =$
- Which one of the following responses is correct?  
 $8 * 5 * 27 * 3 * 16$   
(a)  $x, =, -, +$  (b)  $-, =, x, +$   
(c)  $x, =, +, -$  (d)  $+, -, =, x$
- If X stands for addition, V stands for subtraction, U stands for equal to,  $\wedge$  stands for division,  $\Sigma$  stands for multiplication, and  $\sigma$  stands for greater than and  $\theta$  stands for less than. State which expression is true  
(a)  $3X8V2U12\wedge 3$   
(b)  $13V129V2\sigma 5\Sigma 1$   
(c)  $2\Sigma 3\Sigma 4\theta 51\wedge 3$   
(d)  $3\Sigma 2\Sigma 4U2X7V3$
- Some equations are based on the basis of a certain system. Using the same solve the unsolved equation  
If  $10 - 3 = 12, 12 - 4 = 13, 14 - 5 = 14$ , what is  $16 - 6 = ?$   
(a) 10 (b) 15 (c) 16 (d) 18
- After interchanging  $\div$  and  $x$ , 12 and 18, which one of the following equation becomes correct?



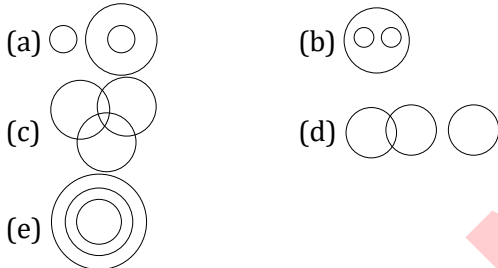
1. **Pointing to a photograph, a man said, brother or sister but that man's father is my father's son." Whose photograph was it?**  
 (a) His own (b) His son  
 (c) His father's (d) His nephew's
2. **Pointing towards a boy, Veena said, "He is the son of only son of my grandfather." How is that boy related to Veena?**  
 (a) Aunt (b) Uncle  
 (c) Mother (d) Data inadequate
3. **Introducing Reena, Monika said, "She is the only daughter of my father's only daughter." How is Monika related to Reena?**  
 (a) Aunt (b) Niece  
 (c) Cousin (d) Data inadequate
4. **Pointing to a man a woman said, "His mother is the only daughter of my mother." How is the woman related to the mother?**  
 (a) Mother (b) Daughter  
 (c) Sister (d) Grandmother
5. **If X is the brother of the son of Y's son, how is X related to Y?**  
 (a) Son (b) Brother  
 (c) Cousin (d) Grandson
6. **Pointing towards Rita, Nikhil said, "I am the only son of her mother's son." How is Rita related to Nikhil?**  
 (a) Aunt (b) Niece  
 (c) Mother (d) Cousin
7. **Pointing to a lady, a man said, "The son of her only brother is the brother of my wife." How is the lady related to the man?**  
 (a) Mother's sister  
 (b) Grandmother  
 (c) Mother-in-law  
 (d) Sister of father-in-law
8. **Pointing to Ketan, Namrata said, "He is the son of my father's only son." How is Ketan's mother related to Namrata?**  
 (a) Daughter  
 (b) Aunt  
 (c) Sister  
 (d) Can't be determined
9. **Pointing to a man on the stage, Rashi said, "He is the brother of the daughter of the wife of my husband." How is the man on the stage related to Rashi?**  
 (a) Son (b) Husband  
 (c) Cousin (d) Nephew
10. **A woman introduces a man as the son of the brother of her mother. How is the man related to the woman?**  
 (a) nephew (b) Son  
 (c) Cousin (d) Uncle
11. **Introducing a man, a woman said, "He is the only son of my mother's mother." How is the woman related to the man?**  
 (a) Mother (b) Aunt  
 (c) Sister (d) Niece
12. **Looking at a portrait of a man, Harsh said, "His mother is the wife of my father's son. Brother and sisters I have none." At whose portrait was Harsh looking?**  
 (a) His son (b) His cousin  
 (c) His uncle (d) His nephew
13. **Pointing to a man in a photograph, Asha said, "His mother's only daughter is my mother." How is Asha related to that man?**  
 (a) Nephew (b) Sister  
 (c) Wife (d) Can't be determined
14. **Introducing a man, a woman said, "His wife is the only daughter of my father." How is that man related to the woman?**  
 (a) Brother (b) Father-in-law  
 (c) Maternal uncle (d) Husband
15. **Pointing towards a girl in the picture, Sarita said, "She is the mother of Neha whose father is my son. How is Sarita related to the girl in**



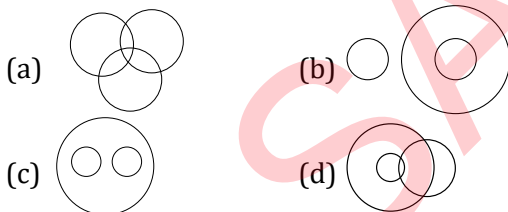
1. Which Venn diagram represents the inter-relationship among anti-social elements, Pickpocketers, Blackmailers?



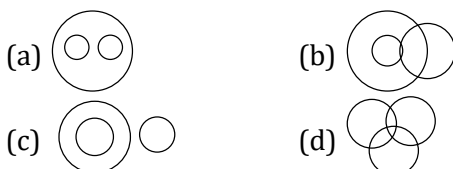
2. Which of the following diagram represents the relation among balls, footballs and spheres most appropriately?



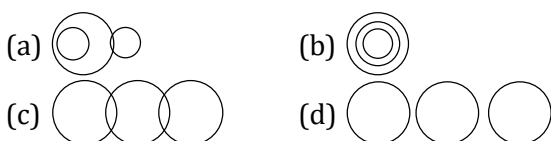
3. Which diagram represents the relationship between Women, Mothers and Engineers?



4. St. Which one of the following diagrams best depicts the relationship among cygnet, birds and rat

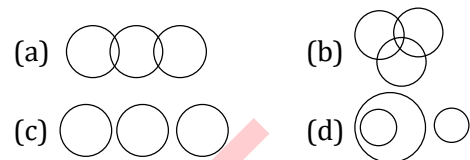


5. Which one of the following figures represents the relationship among Red, Clothes and Rose?

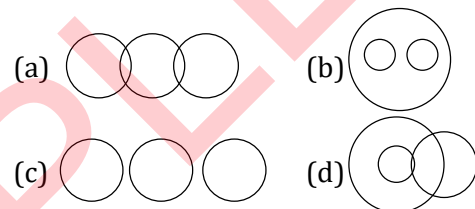


6. Which of the following diagram best depicts

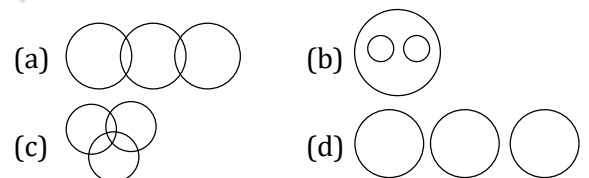
- the lationship between Sire. Hawk and Boa?



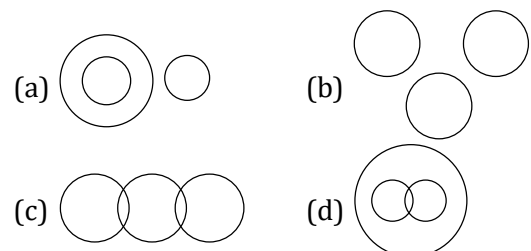
7. Which of the following diagrams represent the relationship among Steed, Adjutant and Aligator?



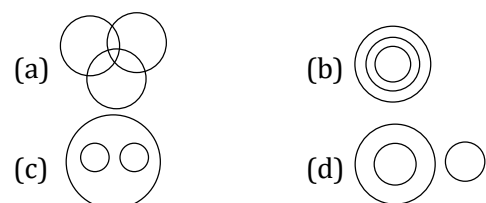
8. Which Venn diagram represents the inter-relationship among Spices, Cumin and Cloves?



9. Which of the following diagram indicates the best relation between examination, question and practice?



10. Which of the following diagram indicates the best relation between Teacher, Writer and Dancer





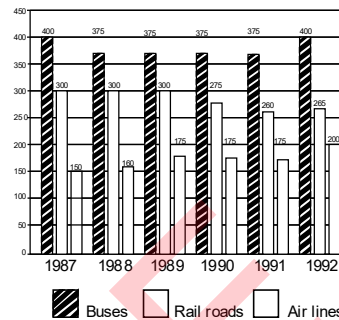
**Directions (1-5):** Study the following questions and choose the correct answer.

State wise production of different crops for the year 1993- 94 (in million tonnes)

State	Rice	Wheat	Pulses
U.P.	7.18	15.97	2.76
W.B.	8.09	0.81	0.35
M.P.	3.67	3.72	2.32
Maharashtra	1.94	0.86	1.11
Haryana	1.36	4.42	0.36
All India	58.64	44.23	12.2

- W.B. produces approximately what percent of the total rice produced in India?  
(a) 12.2% (b) 13.5%  
(c) 18% (d) 15%
- The amount of wheat produced by U. P. is more than the amount of wheat produced by the other four states listed in the table, by  
(a) 6.97 m tonnes (b) 6.16 m tonnes  
(c) 5.52 m tonnes (d) 5.89 m tonnes
- What percentage of the total wheat production was produced by states other than those who are not given in the table?  
(a) 38% (b) 42%  
(c) 48% (d) 58%
- U.P. produced approximately what percent of the all India production of all the three crops take together?  
(a) 27.75% (b) 26.2%  
(c) 24.18% (d) 22.52%
- Which of the following statements is true?  
(a) U.P. was the top producer of all the three crops.  
(b) M.P. ranked third in the production of all three crops.  
(c) Maharashtra was the lowest producer of rice.  
(d) Haryana was the lowest producer of wheat.

**Directions (6 - 10):** Study the following graph carefully and answer the questions that follow. Passengers travelling by Various Modes from 1987 to 1992 (In Millions)



- In 1989, bus passengers represented approximately what percentage of all passengers by buses, railroads, and airlines in that year?  
(a) 35% (b) 45%  
(c) 55% (d) 65%
- From 1987 to 1992 (both inclusive), how many millions of passengers approximately traveled by railroad?  
(a) 1000 (b) 1300  
(c) 1500 (d) 1700
- If in 1992 the average bus fare per passenger was \$ 0.50 and if the average Airline fare per passenger was \$50. What is the ratio between total fares of Airline passengers to total fare of bus passengers?  
(a)  $\frac{6}{5}$  (b)  $\frac{30}{1}$   
(c)  $\frac{60}{1}$  (d)  $\frac{50}{1}$
- In 1991, if 25 Airline companies was there then what was the average number of passenger was serviced by each Airline companies?  
(a) 6 million (b) 4 million  
(c) 7 million (d) 8 million
- The number of railroad passengers in 1992 when compared to the number of railroad passengers in 1987 were less by?  
(a) 35 (b) 40 (c) 70 (d) 90

**Directions (11-15):** These questions are based on following pie graph.

Spending Pattern of an Average Worker

(c) Rs. 100000 (d) Rs. 1000000  
**49. The sales in 2001 are how many times those of 2002?**

- (a) 8 times (b) 0.8 times  
 (c) 2.5 times (d) 3 times

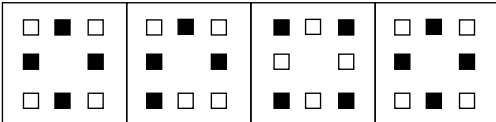
**50. In which year did the sales show the least percent increase to that of the preceding year?**

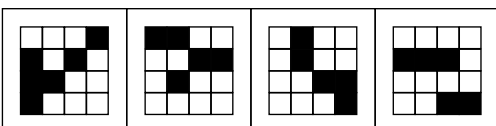
- (a) 2000 (b) 2002  
 (c) 2003 (d) 2004

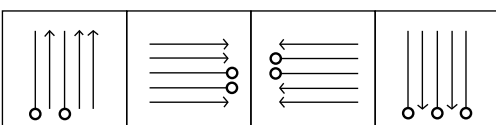
<b>Answer Key</b>
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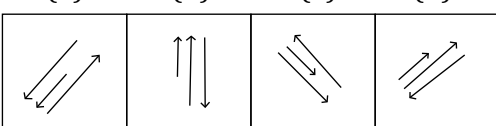
1-b	2-a	3-b	4-b	5-b	6-c	7-b	8-a	9-b	10-d
11-b	12-b	13-b	14-d	15-a	16-b	17-d	18-d	19-c	20-a
21-c	22-c	23-d	24-d	25-d	26-b	27-b	28-d	29-c	30-b
31-a	32-d	33-b	34-a	35-c	36-a	37-c	38-b	39-d	40-d
41-a	42-a	43-c	44-b	45-a	46-d	47-d	48-a	49-b	50-d

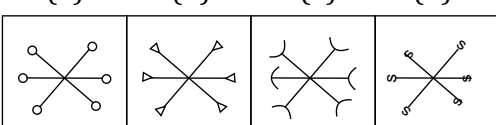
SAMPLE

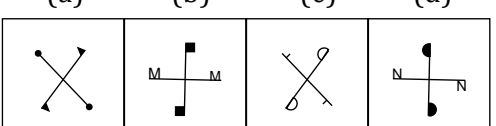
19.  (a) (b) (c) (d)

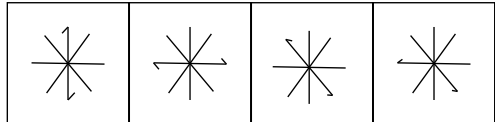
20.  (a) (b) (c) (d)

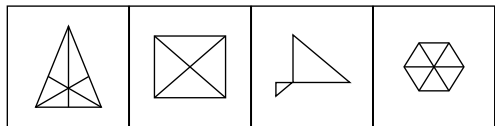
21.  (a) (b) (c) (d)

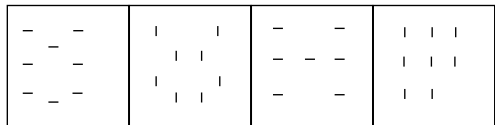
22.  (a) (b) (c) (d)

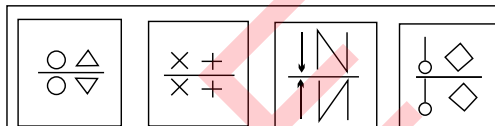
23.  (a) (b) (c) (d)

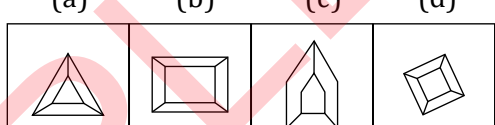
24.  (a) (b) (c) (d)

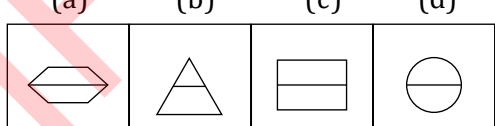
25.  (a) (b) (c) (d)

26.  (a) (b) (c) (d)

27.  (a) (b) (c) (d)

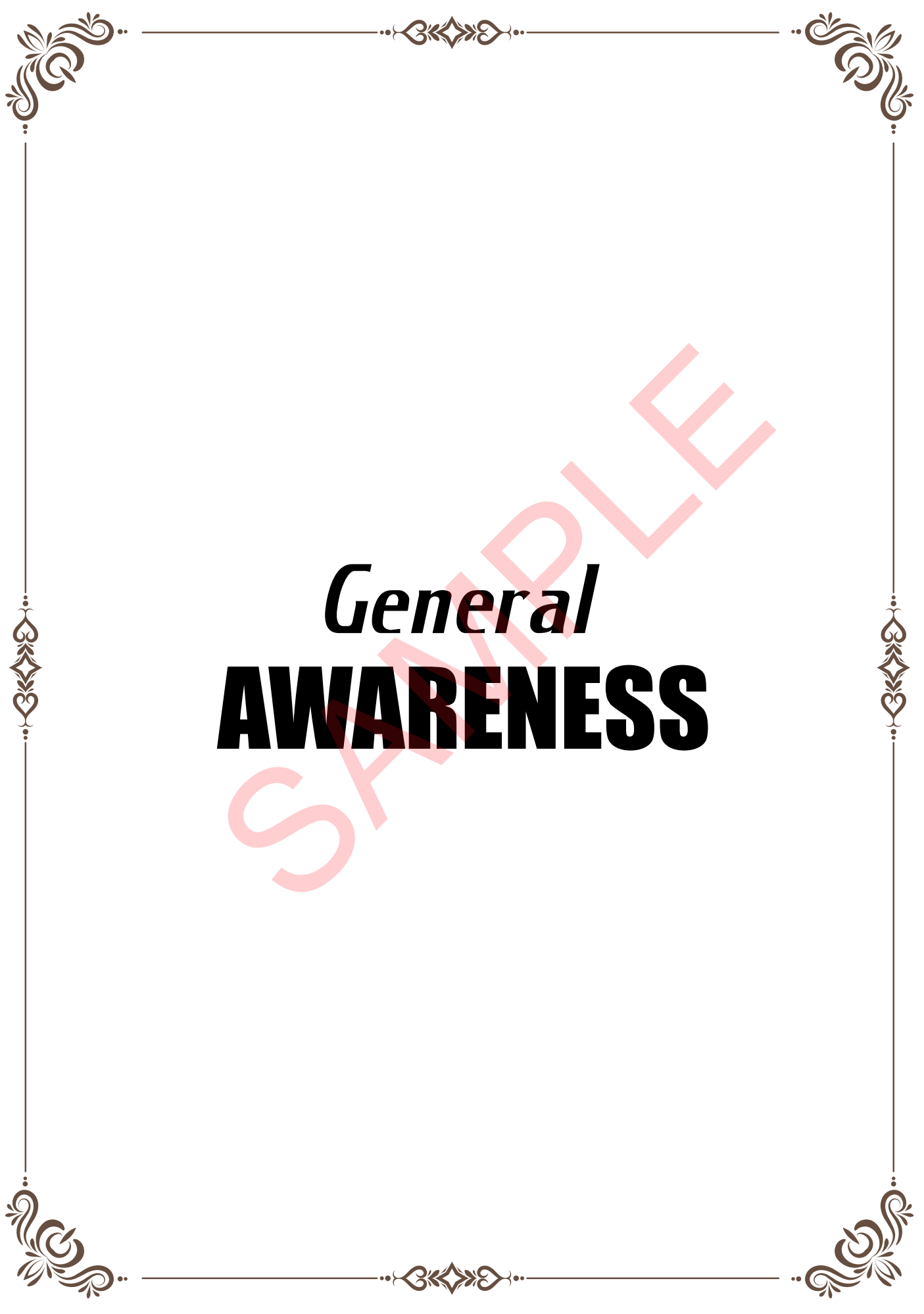
28.  (a) (b) (c) (d)

29.  (a) (b) (c) (d)

30.  (a) (b) (c) (d)

**Answer Key**

1-c	2-a	3-d	4-d	5-c	6-d	7-c	8-b	9-a	10-d
11-d	12-d	13-b	14-b	15-b	16-c	17-c	18-c	19-b	20-a
21-a	22-c	23-c	24-a	25-d	26-c	27-c	28-d	29-c	30-b



*General*  
**AWARENESS**

SAMPLE



1. **Which of the following is not an example of Point Source of pollution?**
  - (a) Oil refinery wastewater
  - (b) Noise from Jet engine
  - (c) Air pollution from forest fire
  - (d) Pollutants mixed in rainwater runoff
2. **Among the following states, the literacy rate is highest in?**
  - (a) Orissa
  - (b) Punjab
  - (c) Maharashtra
  - (d) Mizoram
3. **The dispute over Siachin Glacier is between -**
  - (a) India and China
  - (b) India and Afghanistan
  - (c) India and Pakistan
  - (d) India and Nepal
4. **The Tuirial Hydroelectric Power Project (HEPP) is located in which state?**
  - (a) Kerala
  - (b) Mizoram
  - (c) Nagaland
  - (d) Assam
5. **A wide inlet of the sea usually concave in shape, is termed as a:**
  - (a) Strait
  - (b) Sound
  - (c) Bay
  - (d) Fjord
6. **Punjab has a large number of inundation canals drawing water from?**
  - (a) Jhelum river
  - (b) Chenab river
  - (c) Beas river
  - (d) Sutlej river
7. **Sullage water is**
  - (a) Waste water released from kitchen
  - (b) Waste water released from toilets
  - (c) Waste water released from factories
  - (d) Waste water released from hospitals
8. **Continuous chain of mountains that rise abruptly more or less parallel to the coastline of India is -**
  - (a) Aravalli
  - (b) Satpura
  - (c) Eastern ghats
  - (d) Western ghats
9. **The biggest reserves of Thorium are in**
  - (a) China
  - (b) USA
  - (c) India
  - (d) France
10. **Why the Earth is having its own atmosphere?**
  - (a) Winds
  - (b) Clouds
  - (c) Gravity
  - (d) Rotation of the Earth
11. **A level of atmosphere which is composed partly of electrons and positive ions is called-**
  - (a) Troposphere
  - (b) Ionosphere
  - (c) Stratosphere
  - (d) Mesosphere
12. **The smallest island country in the Indian Ocean is?**
  - (a) Maldives
  - (b) Sri Lanka
  - (c) Mauritius
  - (d) Madagascar
13. **What is Damodar Valley Corporation?**
  - (a) Statutory body
  - (b) Municipal Corporation looking after Damodar Valley
  - (c) A private enterprise located in Bihar
  - (d) A non government organisation
14. **Why is Carbon Monoxide a pollutant?**
  - (a) Reacts with hemoglobin
  - (b) It inhibits glycolysis
  - (c) It reacts with Oxygen
  - (d) None of these
15. **Why is Rann of Kutch of India famous for?**
  - (a) Tidal and flats
  - (b) Fertile soil
  - (c) Dense Vegetation
  - (d) All are correct
16. **What is the position of the Earth when it is at the greatest distance from the sun?**
  - (a) Aphelion
  - (b) Apogee
  - (c) Perihelion
  - (d) Perigee
17. **Which of the following wind is blowing from the Mediterranean Sea to the North Western parts of India?**
  - (a) Western disturbances
  - (b) Norwesters
  - (c) Loo
  - (d) Mango showers
18. **Which layer of the earth's atmosphere contains the ozone layer?**
  - (a) Troposphere
  - (b) Mesosphere
  - (c) Ionosphere
  - (d) Stratosphere
19. **Where is the Great Barrier Reef located?**



1. **Kuttippuram is an archaeological site located in which state/UT?**  
 (a) Kerala (b) Gujarat  
 (c) Punjab (d) Rajasthan
2. **'Kashi Culture Pathway' document is associated with which bloc?**  
 (a) ASEAN (b) SAARC  
 (c) G-20 (d) BIMSTEC
3. **Thiruvonam is a festival prevalently celebrated in which state?**  
 (a) Kerala (b) Andhra Pradesh  
 (c) Tamil Nadu (d) Karnataka
4. **The ancient city of Kalhu is located in which present-day country?**  
 (a) Greece (b) China  
 (c) Iraq (d) USA
5. **Shinon Meeras, a centre showcasing the history of Dard-Shina tribes, was opened in which state/UT?**  
 (a) Jammu and Kashmir (b) Maharashtra  
 (c) Goa (d) Jharkhand
6. **Which institution launched the 'Adopt a Heritage 2.0' programme?**  
 (a) NITI Aayog  
 (b) Archaeological Survey of India  
 (c) Union Culture Ministry  
 (d) Union External Affairs Ministry
7. **Santiniketan, which was designated as a UNESCO World Heritage Site, is in which state?**  
 (a) Uttar Pradesh (b) West Bengal  
 (c) Rajasthan (d) New Delhi
8. **'Hoysala Temples', which received UNESCO World Heritage Tag, are located in which state?**  
 (a) Tamil Nadu (b) Karnataka  
 (c) Odisha (d) West Bengal
9. **Which state/UT organized India's First Lighthouse Festival?**  
 (a) Kerala (b) Goa  
 (c) Maharashtra (d) Gujarat
10. **Which entity is responsible for overseeing all Cultural Property Museums (CPMs) in India?**  
 (a) Archaeological Survey of India  
 (b) National Statistical Office  
 (c) Indian Council for Cultural Relations  
 (d) Indira Gandhi National Centre for the Arts
11. **Bhartiya Bhasha Utsav, a 75 day-long event to celebrate Indian languages was started in which city?**  
 (a) Chennai (b) Lucknow  
 (c) Kochi (d) Varanasi
12. **'Valley Queen Heritage train' is the first heritage train of which state?**  
 (a) Gujarat (b) West Bengal  
 (c) Sikkim (d) Rajasthan
13. **'Puja Special Tram', which was seen in the news, is associated with which state/UT?**  
 (a) Maharashtra (b) Madhya Pradesh  
 (c) Gujarat (d) West Bengal
14. **Dhordo, which was seen in the news, is located in which state/UT?**  
 (a) Bihar (b) Gujarat  
 (c) Assam (d) Goa
15. **'Arattu' festival, which was seen in the news, is a famous festival of which state?**  
 (a) Kerala (b) Karnataka  
 (c) Odisha (d) Bihar
16. **'Batukamma' is the state festival of which state?**  
 (a) Tamil Nadu (b) Telangana  
 (c) Assam (d) Gujarat
17. **Which country hosted the 3rd Edition of North East India Festival?**  
 (a) Thailand (b) Vietnam  
 (c) Cambodia (d) Laos
18. **Two ancient temple caves were recently discovered near Rajapur, Ratnagiri in which state?**  
 (a) Karnataka (b) Maharashtra  
 (c) Andhra Pradesh (d) Kerala
19. **Which state organises the 'Unboxing BLR Habba (UBH)' festival?**  
 (a) Tamil Nadu (b) Karnataka

pioneer of local self-Government in modern India?

- (a) M.K.Gandlii (b) Curzon  
(c) Ripon (d) Hardinge-I

246. Who was the first to attempt decentralization of financial administration?

- (a) Curzon (b) Lytton  
(c) Ripon (d) Mayo

247. Who confessed the following way? 'We have no right to seize Sind. Yet we shall do so and a very big advantageous, useful, human piece of rascality it will be'.

- (a) Sir Charles Napier (b) Major James Outr  
(c) Lord Auckland' (d) Lord Ellenborough

248. Which of the following were the original founders of the Theosophical society?

- (i) Madam H.P. Blavatsky  
(ii) Mrs. Annie Besant  
(iii) Colonel H.S. Olcott

(iv) Colonel O.P. Walburn

Choose the answer from the codes given below

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

249. Subhas Chandra Bose fought the presidential elections in 1939 on the ground that

- (a) He was opposed to Gandhiji  
(b) He favored an aggressive policy which was opposed by the Congress Leaders  
(c) He did not like the nomination of Sitaramayya  
(d) He pleaded for elections instead of nominations

250. Who among the following capitalists served as an AISA treasurer for many years and went to jail in 1930?

- (a) J.R.D Tata (b) Walchand Hirachand  
(c) G. D. Birla (d) Jamunlal Bajaj

### Answer Key

1-a	2-c	3-a	4-c	5-a	6-b	7-b	8-b	9-b	10-a
11-b	12-d	13-d	14-b	15-a	16-b	17-b	18-b	19-b	20-c
21-b	22-b	23-c	24-a	25-c	26-a	27-b	28-c	29-b	30-b
31-a	32-c	33-b	34-b	35-a	36-b	37-a	38-b	39-b	40-a
41-a	42-c	43-d	44-b	45-a	46-c	47-a	48-a	49-d	50-a
51-b	52-b	53-a	54-c	55-a	56-b	57-a	58-b	59-d	60-c
61-b	62-b	63-c	64-a	65-c	66-a	67-b	68-c	69-b	70-c
71-a	72-c	73-a	74-c	75-b	76-c	77-d	78-a	79-d	80-a
81-a	82-a	83-c	84-b	85-a	86-d	87-b	88-a	89-a	90-a
91-a	92-c	93-d	94-c	95-a	96-b	97-b	98-c	99-a	100-a
101-a	102-a	103-c	104-d	105-a	106-a	107-d	108-b	109-c	1010-b
111-b	112-b	113-c	114-d	115-b	116-c	117-a	118-b	119-a	120-c
121-a	122-b	123-a	124-d	125-c	126-a	127-b	128-c	129-c	130-b
131-b	132-a	133-a	134-b	135-d	136-c	137-b	138-c	139-d	140-a
141-c	142-c	143-b	144-b	145-c	146-b	147-c	148-b	149-d	150-d
151-a	152-b	153-c	154-a	155-c	156-b	157-b	158-d	159-b	160-b
161-d	162-a	163-a	164-c	165-c	166-d	167-a	168-a	169-b	170-c
171-c	172-b	173-a	174-c	175-a	176-b	177-c	178-a	179-c	180-a
181-b	182-a	183-d	184-c	185-d	186-c	187-a	188-c	189-d	190-c
191-b	192-b	193-b	194-a	195-d	196-d	197-b	198-b	99-b	100-a
201-c	202-d	203-c	204-d	205-d	206-d	207-d	208-c	209-a	210-d
211-a	212-a	213-b	214-a	215-c	216-a	217-a	218-c	219-d	220-d
221-c	222-b	223-c	224-a	225-a	226-a	227-c	228-d	229-c	230-b
231-d	232-d	233-b	234-d	235-a	236-c	237-b	238-c	239-c	240-a
241-d	242-a	243-a	244-d	245-c	246-d	247-a	248-a	249-d	250-d



1. **Commercial banks lend to which of the following Priority sectors?**
  - (a) Heavy Industries
  - (b) Agriculture, Small scale industries
  - (c) Foreign Companies
  - (d) State government in emergency situation
2. **What is the accounting year of the Reserve Bank of India?**
  - (a) April-March
  - (b) July-June
  - (c) October-September
  - (d) January-December
3. **Among the following States, has the lowest birth rate in India.**
  - (a) Kerala
  - (b) Uttar Pradesh
  - (c) Bihar
  - (d) West Bengal
4. **The Secretariat of SAARC is set up at**
  - (a) Washington
  - (b) Kathmandu
  - (c) Hague
  - (d) New Delhi
5. **'Residex' is associated with:**
  - (a) Share prices
  - (b) Price inflation
  - (c) Mutual fund prices
  - (d) Land prices
6. **Money market is a market for**
  - (a) Short term fund
  - (b) Long term fund
  - (c) Negotiable instruments
  - (d) Sale of shares
7. **Which institutions is known 'Soft Loan Window' of World Bank**
  - (a) IDBI
  - (b) IDA
  - (c) IMF
  - (d) RBI
8. **Which curve shows the inverse relationship between unemployment and inflation rates -**
  - (a) Supply curve
  - (b) Indifference curve
  - (c) IS curve
  - (d) Phillips curve
9. **Special Drawing Rights were created by -**
  - (a) IBRD
  - (b) ADB
  - (c) IMF
  - (d) WTO
10. **In which of the following States India's first Green Rail Corridor was launched in -**
  - (a) Karnataka
  - (b) Maharashtra
  - (c) Himachal Pradesh
  - (d) Tamil Nadu
11. **Which place is said to be the Manchester of South India?**
  - (a) Coimbatore
  - (b) Salem
  - (c) Thanjavur
  - (d) Madurai
12. **When the demand for a good increase with an increase in income, such a good is called**
  - (a) Superior good
  - (b) Giffin good
  - (c) Inferior good
  - (d) Normal good
13. **MUDRA Bank has been launched to help**
  - (a) Small business
  - (b) Marginal farmers
  - (c) Poor women
  - (d) Rural sector
14. **Which of the following controls the insurance business of India?**
  - (a) RBI
  - (b) IDBI
  - (c) SEBI
  - (d) IRDA
15. **Which State "agriculture income tax" on plantation Government has abolished companies.**
  - (a) Karnataka
  - (b) Rajasthan
  - (c) Bihar
  - (d) Assam
16. **Which of the following is not a method of estimating national income?**
  - (a) Expenditure method
  - (b) Output method
  - (c) Matrix method
  - (d) Income method
17. **Which of the following taxes is levied by the State Government only?**
  - (a) Wealth tax
  - (b) Entertainment tax
  - (c) Income tax
  - (d) Corporate tax
18. **HDI is an aggregate measure of progress in which of the three dimensions?**
  - (a) Health, Education, Income
  - (b) Food Security, Employment, Income
  - (c) Agriculture, Industry, Services
  - (d) Height, Weight, Colour
19. **The operational period of 12th Five Year Plan is -**
  - (a) 2007-12
  - (b) 2012-17
  - (c) 2015-20
  - (d) 2005-10
20. **What is an octroi?**
  - (a) Tax
  - (b) Tax collection centre
  - (c) Tax processing centre
  - (d) Tax information centre,
21. **Swarna Jayanti Gram Swaraj Yojna has**

## 5

# Environmental issue concerning Indian and World



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1. **What is 'Garnet', recently mentioned in news?**  
 (a) A deep red mineral (b) AI model  
 (c) Invasive weed (d) A type of vitamin
2. **Bannerghatta Biological Park (BBP), recently seen in news, is located in which state?**  
 (a) Karnataka (b) Madhya Pradesh  
 (c) Odisha (d) Kerala
3. **Gandhi Sarovar, recently seen in news due to avalanche, originates from which glacier?**  
 (a) Dokriani Glacier (b) Chorabari Glacier  
 (c) Milam Glacier (d) Namik Glacier
4. **Which ministry recently approved Rs 56 crore for the conservation of the Great Indian Bustard (GIB) and Lesser Florican?**  
 (a) Ministry of Environment, Forest and Climate Change  
 (b) Ministry of Agriculture  
 (c) Ministry of Finance  
 (d) Ministry of Tourism
5. **Saryu River, recently seen in news, flows through which Indian states?**  
 (a) Maharashtra and Karnataka  
 (b) Kerala and Tamil Nadu  
 (c) Uttarakhand and Uttar Pradesh  
 (d) Gujarat and Rajasthan
6. **As per a recent report, the coastal waters of which state are facing a ecological threat from the invasive Caribbean false mussel?**  
 (a) Kerala (b) Andhra Pradesh  
 (c) Goa (d) Tamil Nadu
7. **An invasive non-native ant species, the red fire ant, has been detected in which country?**  
 (a) India (b) Italy  
 (c) Indonesia (d) Germany
8. **Standardised Precipitation Index (SPI) is a tool used to monitor which parameter?**  
 (a) Flood (b) Drought  
 (c) Air Quality (d) Radiations
9. **As per Wildlife Trust of India, which is the most endangered amphibian genus in India?**  
 (a) Dancing Frog (b) True Frog  
 (c) Tree Frog (d) Cascade Frog
10. **'Nilgiri Tahr' is the state animal of which state/UT?**  
 (a) Karnataka (b) Kerala  
 (c) Tamil Nadu (d) Andhra Pradesh
11. **Which species had its IUCN Red List conservation status changed from Critically Endangered to Near Threatened recently?**  
 (a) Tibetan Antelope (b) Saiga antelope  
 (c) Mongolian Gazelle (d) Javan Rhino
12. **Kambalakonda Wildlife Sanctuary, where Eastern Ghats Nature Interpretation Centre is being opened, is located in which state?**  
 (a) Tamil Nadu (b) Andhra Pradesh  
 (c) Karnataka (d) Telangana
13. **Coral reefs occupy what percentage of the ocean floor?**  
 (a) Less than 0.1% (b) Around 1%  
 (c) Around 1.5% (d) Around 2.5%
14. **Who has been named as the president-designate for the 29th session of the Conference of the Parties (COP29)?**  
 (a) Rashad Allahverdiyev  
 (b) Mukhtar Babayev  
 (c) Sultan al-Jaber  
 (d) Fatih Birol  
 Show Answer
15. **What is the primary focus of the "Harit Nauka - Guidelines for Green Transition of Inland Vessels" initiative recently unveiled?**  
 (a) Promotion of Water Sports  
 (b) Adoption of Eco-Friendly Practices for Inland Vessels  
 (c) Enhancement of Fishing Techniques  
 (d) Development of Waterway Infrastructure
16. **Lake Turkana, recently seen in the news, is located in which country?**  
 (a) Nigeria (b) Kenya  
 (c) Russia (d) Ukraine
17. **Great Barrier Reef, recently seen in news, is located in which country?**  
 (a) New Zealand (b) Australia  
 (c) India (d) Maldives

- (a) Carbon monoxide (b) Carbon dioxide  
(c) Nitrous oxide (d) Sulphur dioxide
- 144. The vast amount of sea weeds presents in ocean may produce an endless source of**  
(a) Methane  
(b) Ocean thermal energy  
(c) Sea wave energy  
(d) Nuclear energy
- 145. Which of the following can inhabit the most inhabitable habitats like hot springs, deep sea, thermal vents and ice in Antarctica?**  
(a) Bacteria (b) Viruses  
(c) Amoeba (d) Euglena
- 146. Endemic species are those species of plants and animals which are**  
(a) Found in a particular area  
(b) In very good health  
(c) Suffering from an epidemic  
(d) Found only in the forests

**147. Reforestation means**

- (a) Visiting the forests  
(b) Taking care of animals in the forests  
(c) Planting new trees in the destroyed forests  
(d) Reinforcing forests

**148. What is the scientific name of the "Touch-Me-Not" plant?**

- (a) Mimosa verrucosa (b) Mimosa Loxensis  
(c) Mimosa pudica (d) Mimosa townsendii

**149. Viticulture is**

- (a) Vegetable cultivation  
(b) Mango cultivation  
(c) Flower cultivation  
(d) Grape cultivation

**150. What is the botanical name of common wheat?**

- (a) Triticum Aestivum  
(b) Brassica Campestris  
(c) Zea Mays  
(d) Hibisone Rosa Sinensis

**Answer Key**

1-a	2-a	3-b	4-a	5-c	6-a	7-b	8-b	9-a	10-c
11-b	12-b	13-a	14-b	15-b	16-b	17-b	18-c	19-b	20-b
21-a	22-b	23-b	24-c	25-a	26-c	27-a	28-b	29-a	30-b
31-a	32-b	33-c	34-a	35-c	36-c	37-c	38-b	39-a	40-c
41-c	42-a	43-a	44-a	45-d	46-a	47-a	48-a	49-a	50-a
51-a	52-b	53-a	54-b	55-c	56-c	57-a	58-a	59-d	60d
61-a	62-d	63-a	64-c	65-a	66-a	67-a	68-a	69-c	70-a
71-b	72-c	73-b	74-b	75-a	76-b	77-d	78-c	79-a	80-a
81-a	82-a	83-a	84-b	85-c	86-d	87-d	88-a	89-c	90-a
91-a	92-b	93-b	94-c	95-a	96-a	97-b	98-b	99-c	100-d
101-c	102-c	103-b	104-b	105-c	106-b	107-a	108-c	109-a	110-b
111-b	112-d	113-c	114-d	115-b	116-a	117-b	118-a	119-a	120-a
121-b	122-c	123-b	124-c	125-d	126-d	127-b	128-a	129-c	130-d
131-c	132-c	133-b	134-b	135-a	136-d	137-b	138-b	139-b	140-a
141-d	142-c	143-b	144-a	145-a	146-a	147-c	148-c	149-d	150-a



*General Science*

SAMPLE



1. **What is the minimum distance (in metres) required to hear an echo?**  
 (a) 10 (b) 13  
 (c) 17 (d) 21
2. **Why does a Black board appears black in colour?**  
 (a) It reflects black colour  
 (b) It absorbs black colour  
 (c) It reflects all colours  
 (d) It absorbs all the colours
3. **Which of the following instrument is used to measure Soil Water Tension?**  
 (a) Photometer (b) Pyrometer  
 (c) Psychrometer (d) Tensiometer
4. **What is the SI unit of Force?**  
 (a) Pascal (b) Boyle  
 (c) Newton (d) Watt
5. **Which one of the following is a bad Thermal Conductor?**  
 (a) Aluminium (b) Copper  
 (c) Glass (d) Silver
6. **Who invented first working laser?**  
 (a) A. H. Taylor (b) W. K. Roentgen  
 (c) T. H. Maiman (d) Fred Morriasion
7. **Meter in a vehicle that calculates distance covered by the vehicle is called.....**  
 (a) Speedometer (b) Odometer  
 (c) Thermometer (d) Kilometre
8. **What is the SI unit of pressure?**  
 (a) Newton (b) Weber  
 (c) Pascal (d) Henry
9. **Reflection from a smooth surface like that of a mirror is called..... reflection.**  
 (a) Regular (b) Irregular  
 (c) Diffused (d) Fused
10. **What is the unit of resistance?**  
 (a) Ohm (b) Farad  
 (c) Henry (d) Weber
11. **Gravitational force is maximum at which of the following place?**  
 (a) At equator  
 (b) At tropic of cancer  
 (c) At tropic of Capricorn  
 (d) At poles
12. **Which of the following device is used to measure humidity?**  
 (a) Hydrometer (b) Hygrometer  
 (c) Psycho Meter (d) Anemometer
13. **Which of the following is not a vector quantity?**  
 (a) Momentum (b) Displacement  
 (c) Torque (d) Speed
14. **At what temperature (in Fahrenheit) pure water freezes?**  
 (a) 32 (b) 0  
 (c) 48 (d) 37
15. **What is the other name of Galileo's law of falling bodies?**  
 (a) Law of motion  
 (b) Newton's first law  
 (c) Newton's second law  
 (d) Newton's third law
16. **Which of the following device is best suited for measuring the temperature inside metallurgical furnaces?**  
 (a) Pyrometer (b) Thermocouple  
 (c) Thermometer (d) Thermistor
17. **In a qualitative way, the tendency of undisturbed objects to stay at rest or to keep moving with the same velocity is called**  
 (a) Force (b) Acceleration  
 (c) Friction (d) Inertia
18. **The time taken by a pendulum to complete one oscillation is called its?**  
 (a) Maximum speed (b) Average speed  
 (c) Time period (d) Time interval
19. **If the mass of an object is 60 kgs, what will be its weight on the moon? (N=Newton)**  
 (a) 60N (b) 600N  
 (c) 100N (d) 10N
20. **The side mirrors of vehicles are of which type of mirrors?**  
 (a) Convex (b) Concave  
 (c) Plane (d) Inverted

**180. Atmospheric pressure is measured by.....**

- (a) Barometer (b) Hexameter  
(c) Nanometer (d) Glaxometer

**181. Instrument for measuring rainfall is called**

- (a) Lucimeter (b) Galactometer  
(c) Hyetometer (d) Hygrometer

**182. Who established the foundations of the quantum theory?**

- (a) Max Planck (b) Mark Nicholas  
(c) Albert Einstein (d) Alfred Hitchcock

**183. If in a motion, the axis of the rotation passes through an object, the motion is called.....**

- (a) Orbital motion (b) Circulatory motion  
(c) Spin motion (d) Oscillatory motion

**184. If an object, on a free fall from a certain height, reaches the ground in 1 second, what is its velocity on the impact with the ground?**

- (a) 4.9 m/s (b) 9.8 m/s  
(c) 14.7 m/s (d) 19.6 m/s

**185. If in a motion, the axis of the rotation does not pass through the object, then the motion is called.....**

- (a) Spin motion  
(b) Oscillatory motion  
(c) Translatory motion  
(d) Orbital motion

**186. What are the two kinds of Rotatory motion?**

- (a) Spin and Vibrational motion  
(b) Spin and Orbital motion  
(c) Spin and Translatory motion  
(d) Spin and Projectile motion

**187. is the perpendicular distance between point of application of force and axis of rotation.**

- (a) Moment arm (b) Moment of Inertia  
(c) Altitude (d) Base

**188. Which among the following is not a unit of distance?**

- (a) Light year (b) Longsec  
(c) Astronomical unit (d) Parsec

**189. The apparent weight of a person in a lift which is moving down with uniform**

**acceleration is**

- (a) greater than the weight when the person is stationary  
(b) twice the weight when the person is stationary  
(c) less than the weight when the person is stationary  
(d) same as the weight when the person is stationary

**190. Who invented Rocket?**

- (a) Rich K Goyle (b) EM Forster  
(c) Robert Goddard (d) James Anderson

**191. Weight of a person at a height of  $2R$  from the centre of the earth, where  $R$  is the radius of the earth.....**

- (a) remains same  
(b) becomes half  
(c) becomes twice  
(d) becomes one fourth

**192. How can we measure specific gravity of milk?**

- (a) Using a viscometer  
(b) Using an odometer  
(c) Using a hygrometer  
(d) Using a hydrometer

**193. Who invented the nuclear reactor?**

- (a) Enrico Fermi  
(b) Adolf Gaston Eugen Fick  
(c) Sandford Fleming  
(d) Benoit Fourneyron

**194. What is the angle between centripetal acceleration and tangential acceleration?**

- (a)  $90^\circ$  (b)  $45^\circ$   
(c)  $0^\circ$  (d)  $180^\circ$

**195. Rectifiers convert.....**

- (a) high voltage to low voltage  
(b) low voltage to high voltage  
(c) AC to DC  
(d) DC to AC

**196. Name the first Indian who got Nobel Prize in physics.**

- (a) CK Naidu (b) Rangnath Mishra  
(c) Amartya Sen (d) C V Raman

**197. Which physical quantity is measured in 'siemens'?**

- (a) Electric potential  
(b) Electrical conductance



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- Which among the following is white phosphorus?  
(a) P1 (b) P6  
(c) P4 (d) P5
- Alkali metals can -  
(a) Be highly unstable at room temperature  
(b) Vaporize at room temperature  
(c) Easily gain electrons  
(d) Easily lose electrons
- What does a catalyst do in a reaction?  
(a) Changes potential energy of reactants  
(b) Changes kinetic energy of reactants  
(c) Changes potential energy of products  
(d) Changes activation energy
- Adding which substance gives green colour to glass?  
(a) Calcium oxide (b) Iron oxide  
(c) Chromium oxide (d) Manganese oxide
- Which among the following is present inside the nucleus of an atom?  
(a) Protons and Neutrons  
(b) Electrons and Protons  
(c) Neutrons and Electrons  
(d) Neutrons, Protons, Electrons
- What is baking soda?  
(a) Aluminium bicarbonate  
(b) Sodium isolate  
(c) Sodium bicarbonate  
(d) Aluminium sulfate
- Which among the following elements is a liquid at room temperature?  
(a) Phosphorus (b) Mercury  
(c) Sodium (d) Aluminium
- Which among the following is an endothermic reaction?  
(a) Respiration  
(b) Combustion  
(c) Sweating  
(d) Burning of natural gas
- Name the catalyst used in the conversion of milk into curd?  
(a) Pepsin (b) Invertase  
(c) Lactase (d) Diastase
- \_\_\_\_\_ fiber is used in making bristles for brushes.  
(a) Kevlar (b) Nylon-66  
(c) Terylene (d) Lexan
- Acids turn \_\_\_\_\_ litmus \_\_\_\_\_.  
(a) red, blue (b) green, yellow  
(c) blue, red (d) yellow, green
- Automobile exhaust leads to a poisonous pollutant  
(a) Carbon Dioxide (b) Sulphur Dioxide  
(c) Carbon Monoxide (d) Nitrous Oxide
- What is the full form of PVC?  
(a) Phosphonil vinyl Carbonate  
(b) Polyvinyl S Carbonate  
(c) Polyvinyl Carbonate  
(d) Polyvinyl Chloride.
- Aromatic hydrocarbons contain at least benzene like ring in their molecules.  
(a) Four (b) Three  
(c) Two (d) One
- Chromite is an ore/mineral of -  
(a) Zinc (b) Uranium  
(c) Chromium (d) Titanium
- Which among the following has the maximum density?  
(a) Water (b) Ice  
(c) Ethylene (d) Acetone
- What happens in an oxidation reaction?  
(a) Protons are lost.  
(b) Electrons are lost  
(c) Neutrons are lost  
(d) Electrons are gained
- The reactions in which oxidation and reduction occur simultaneously are called  
(a) Feral reactions (b) Redox reactions  
(c) Demug reactions (d) Kerol reactions
- Who discovered Nitrogen?  
(a) Faraday (b) Heisenberg  
(c) Hooke (d) Rutherford
- Device used for the detection and measurement of all types of radiation

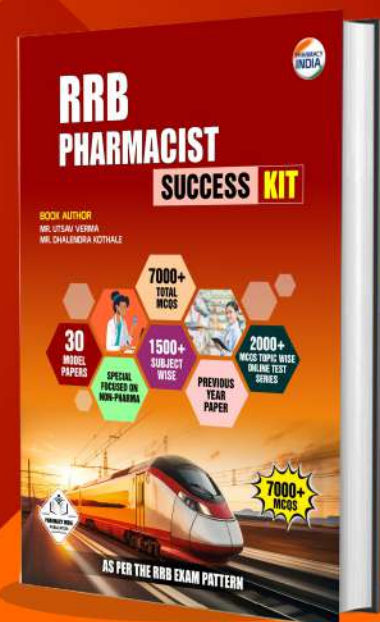
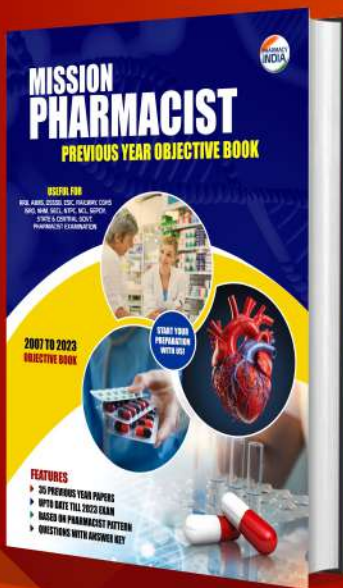
- (c) Sodium (d) Chlorine
- 276. Chemically "Plaster of Paris" is:**  
 (a) Calcium Sulphate (b) Calcium Carbonate  
 (c) Calcium Oxide (d) Calcium Oxalate
- 277. Bronze is an alloy of copper and-**  
 (a) Tin (b) Aluminum  
 (c) Silver (d) Nickel
- 278. Which of the following alloys has a maximum percentage of Copper?**  
 (a) Brass (b) Bronze  
 (c) German Silver (d) Delta Metal
- 279. Which metal exists as a common component in Brass, Bronze and German Silver?**  
 (a) Antimony (b) Copper  
 (c) Tin (d) Zinc
- 280. The important metal used with iron to make it rust free-**  
 (a) Aluminium (b) Carbon  
 (c) Chromium (d) Tin
- 281. Which one of the following catalysts is used in hydrogenation of vegetable oils?**  
 (a) Zinc (b) Platinum  
 (c) Nickel (d) Iron
- 282. What is the shape of Sulphur hexafluoride molecule?**  
 (a) Trigonal pyramid (b) Octahedral  
 (c) Planar (d) Tetrahedral
- 283. Which is not a Lewis acid?**  
 (a)  $\text{AlCl}_3$  (b)  $\text{BF}_3$   
 (c)  $\text{NH}_3$  (d)  $\text{FeCl}_3$
- 284. The chemical formula of baking soda is:**  
 (a)  $\text{Ca}(\text{OH})_2$  (b)  $\text{NaHCO}_3$   
 (c)  $\text{CaCO}_3$  (d)  $\text{Na}_2\text{CO}_3$
- 285. Which one of the following pairs is not correctly matched?**  
 (a) Dry ice Solid carbon dioxide  
 (b) Mustard gas Poisonous liquid used in chemical warfare  
 (c) Teflon Polymer containing fluorine  
 (d) Fullerene Organic compounds containing fluorine
- 286. The pH of lemon juice is expected to be -**  
 (a) more than 7  
 (b) equal to 7  
 (c) nothing can be predicted  
 (d) less than 7
- 287. Vinegar is chemically known as:**  
 (a) Acetic acid (b) Butyric acid  
 (c) Formic acid (d) Tartaric acid
- 288. Gasohol is a mixture of:**  
 (a) Gasoline and Butanol  
 (b) Gasoline and Ethanol  
 (c) Gasoline and Propanol  
 (d) Methanol and Ethanol
- 289. The plants receive Nitrogen in form of:**  
 (a) Nitric oxide (b) Nitrate  
 (c) Ammonia (d) Nitride
- 290. Actinides are the elements with atomic numbers from**  
 (a) 89 to 103 (b) 101 to 115  
 (c) 97 to 104 (d) 36 from 43
- 291. Isotones is that nuclei of atomic nucleus in which-**  
 (a) Number of neutrons is same but number of protons is different  
 (b) Number of protons is same but number of neutrons is different  
 (c) Number of both protons and neutrons is same  
 (d) Number of both protons and neutrons is different
- 292. The technique of chromatography is used to-**  
 (a) Identify colour substances  
 (b) Determine the structure of substances  
 (c) Dry distillation of colouring substances  
 (d) Separate the substances from a mixture
- 293. The gas usually filled in the electric bulb with Argon is -**  
 (a) Nitrogen (b) Hydrogen  
 (c) Carbon dioxide (d) Oxygen
- 294. Which one of the following metals is accessed in the native state?**  
 (a) Aluminium (b) Gold  
 (c) Chromium (d) Zinc
- 295. Which of these consists carbon?**  
 (a) Lignite (b) Tin  
 (c) Silver (d) Iron
- 296. What is Teflon?**  
 (a) Fluorocarbon (b) Hydrocarbon  
 (c) Microbicides (d) Insecticide
- 297. What is laughing gas?**  
 (a) Nitrous Oxide (b) Carbon monoxide  
 (c) Sulphur dioxide (d) Hydrogen peroxide
- 298. RDX was invented by**  
 (a) Alfred Nobel (b) Soddy  
 (c) Bergillin (d) Henning
- 299. The two elements that are frequently used for making transistors are**



1. **Who coined the phrase 'Survival of the fittest' to mean Natural Selection?**
  - (a) Charles Darwin
  - (b) Bertrand Russell
  - (c) JBS Haldane
  - (d) Herbert Spencer
2. **Who gave the 'Laws of Inheritance' and is considered as 'The Father of Genetics'?**
  - (a) Gregor Johann Mendel
  - (b) Charles Darwin
  - (c) Isaac Newton
  - (d) James Watson
3. **When cell division in the body is out of control, it causes:**
  - (a) Fever
  - (b) Cancer
  - (c) Inflammation
  - (d) (a) and (c)
4. **What is the term given to a sudden change in the structure of a gene?**
  - (a) Recombination
  - (b) Mutation
  - (c) Variation
  - (d) Evolution
5. **To which kingdom of life do all bacteria belong?**
  - (a) Monera
  - (b) Fungi
  - (c) Plantae
  - (d) Animalia
6. **When a scientific name is written, the names of genus and species:**
  - (a) both begin with small letters
  - (b) both begin with capital letters
  - (c) genus name is begun with a capital letter and species name with a small letter
  - (d) genus name is begun with a small letter and species name with a capital letter
7. **Cousins were discussing amongst themselves as to whose features resemble those of which elder in the family. Which subject can explain their conclusions?**
  - (a) Evolution
  - (b) Genetics
  - (c) Adaptation
  - (d) Physiology
8. **A plant and an animal cell were focused under the microscope. Which features helped students differentiate the two?**
  - (a) Plant cell and animal cell both had nuclei.
  - (b) Plant cell had a cell wall but animal cell did not.
  - (c) Animal cell had a cell membrane but plant cell did not.
  - (d) Animal cell had a large vacuole but plant cell did not.
9. **Who is considered to be the 'father of modern genetics'?**
  - (a) Charles Darwin
  - (b) Gregor Mendel
  - (c) Alexander Fleming
  - (d) Otto Hahn
10. **Which of the following is a vertebrate?**
  - (a) Kiwi
  - (b) Sponges
  - (c) Starfish
  - (d) Threadworm
11. **Electron microscope was invented by:**
  - (a) Knoll and Ruska
  - (b) Robert Koch
  - (c) Leeuwenhoek
  - (d) C.P. Swanson
12. **Which is the name of the point at which the chromatids are attached in a chromosome?**
  - (a) Nucleosome
  - (b) Centromere
  - (c) Centrosome
  - (d) Gene
13. **What is tissue?**
  - (a) Cells which are similar in origin but dissimilar in form and function.
  - (b) Cells which are dissimilar in origin but similar in form and function.
  - (c) Cells which are dissimilar in origin, form, and function.
  - (d) Cells which are similar in origin, form, and function.
14. **In which of the following tissues are the cells living, elongated and irregularly thickened at the corners?**
  - (a) Parenchyma
  - (b) Sclerenchyma
  - (c) Aerenchyma
  - (d) Collenchyma
15. **Which of the following animals do NOT belong to the class of reptiles?**
  - (a) Turtle
  - (b) Crocodile
  - (c) Toad
  - (d) Snake
16. **A fungal cell wall is made of**
  - (a) Hemi-cellulose
  - (b) Cellulose
  - (c) Chitin
  - (d) Lignin
17. **Name the stage of mitosis during which the chromosomes of a dividing cell lies at the equatorial plate?**
  - (a) Metaphase
  - (b) Prophase
  - (c) Anaphase
  - (d) Telophase
18. **Which permanent tissue makes a plant hard and stiff?**

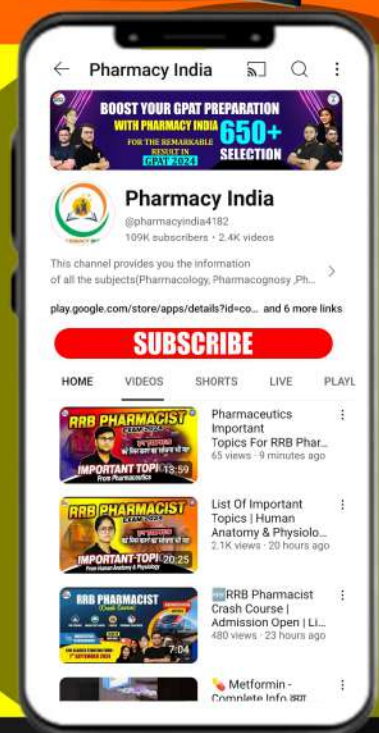
- 168. Excretory product of mammals is:**  
 (a) Salts (b) Glucose  
 (c) Urea (d) Ammonia
- 169. Occurrence of excess urea in blood due to kidney failure is:**  
 (a) Urochrome (b) Uraemia  
 (c) Uricotelism (d) Ureotelism
- 170. Total filtrate formed in 24 hours in human kidney is**  
 (a) 1.8 litres (b) 8.0 litres  
 (c) 18 litres (d) 180 litres
- 171. Which hormone regulates growth, cell reproduction, and regeneration?**  
 (a) Thyroid Stimulating Hormone (TSH)  
 (b) Growth Hormone (GH)  
 (c) Adrenocorticotrophic Hormone (ACTH)  
 (d) Prolactin (PRL)
- 172. What hormone regulates uterine contractions during childbirth and influences social bonding and emotional behaviors?**  
 (a) Oxytocin (b) Vasopressin  
 (c) Growth Hormone (d) Prolactin
- 173. The gland that secretes and regulates melatonin, influencing the sleep-wake cycle, is the:**  
 (a) Thyroid gland (b) Adrenal gland  
 (c) Pineal gland (d) Pituitary gland
- 174. Which hormone plays a crucial role in regulating metabolism, heart rate, and body temperature?**  
 (a) Thyroxine (T<sub>4</sub>)  
 (b) Triiodothyronine (T<sub>3</sub>)  
 (c) Adrenaline  
 (d) Both a and b
- 175. What gland produces and secretes saliva into the mouth through ducts, aiding in the initial digestion of food?**  
 (a) Pineal gland (b) Pituitary gland  
 (c) Salivary glands (d) Thyroid gland
- 176. Which organ is not a gland?**  
 (a) Adrenal (b) Liver  
 (c) Pituitary (d) Gall bladder
- 177. Which of the following is essential for the synthesis of thyroxin?**  
 (a) Potassium (b) Sodium  
 (c) Calcium (d) Iodine
- 178. \_\_\_\_\_ is not an endocrine gland in humans.**  
 (a) The pineal gland  
 (b) The pituitary gland  
 (c) The liver  
 (d) The adrenal gland
- 179. Growth hormones function:**  
 (a) Rarely as growth promoters  
 (b) Sometimes as growth promoters and sometimes as growth inhibitors  
 (c) Always as growth inhibitors  
 (d) Always as growth promoters
- 180. Which of the following is not a hormone found in animals?**  
 (a) Insulin (b) Auxins  
 (c) Adrenaline (d) Thyroxin
- 181. The primary function of the thalamus is to:**  
 (a) Regulate hormonal secretions  
 (b) Manage head and eye orientation  
 (c) Control, involuntary functions like breathing  
 (d) Detect cold, heat, and pain sensations
- 182. Which part of the brain regulates hunger, thirst, and blood pressure?**  
 (a) Cerebrum (b) Hypothalamus  
 (c) Cerebellum (d) Thalamus
- 183. What does the medulla oblongata control?**  
 (a) Heart rate regulation  
 (b) Motor coordination  
 (c) Reflex actions like coughing  
 (d) Both a and c
- 184. The primary role of the pons involves:**  
 (a) Sleep regulation  
 (b) Coordination of facial movements  
 (c) Relay of auditory signals  
 (d) Sensory information processing
- 185. The cerebellum is responsible for:**  
 (a) Sensory processing  
 (b) Memory formation  
 (c) Motor coordination and balance  
 (d) Controlling hormonal secretions
- 186. The sensory processing of touch, taste, and smell is primarily managed by:**  
 (a) Cerebellum (b) Cerebral cortex  
 (c) Thalamus (d) Hypothalamus
- 187. One feature of mammals common to all mammals without exception is:**  
 (a) presence of hair  
 (b) presence of mammary glands  
 (c) giving birth to babies (viviparity)  
 (d) seven vertebrae in the neck
- 188. Which of the following is the main thinking part of the human brain?**  
 (a) Hind-brain (b) Cerebellum  
 (c) Mid-brain (d) Fore-brain
- 189. Involuntary actions in human beings such as blood pressure, salivation and vomiting are controlled by the:**  
 (a) Pons (b) Hypothalamus  
 (c) Medulla (d) Spinal cord
- 190. In which part of a neuron is information acquired?**  
 (a) Axon (b) Dendrite  
 (c) Cell body (d) Nerve ending

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