Global Education of Science

Subject : Quantitative Aptitude, Reasoning, Verbal

Standard : 13

Total Mark : 600

MCQ and MCQ

Paper Set : 1

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Quantitative Aptitude - Section A (MCQ)

(1) The expression $x^2 + 2bx + c$ has the positive value if
(A) $b^2 - 4c > 0$
(B) $b^2 - 4c < 0$
(C) $c^2 < b$
(D) $b^2 < c$

(2) A m^3 of metal weighing $90\,Kg$ is rolled into a square bar $9\,meter$ long. An exact cube is cut off from the bar. How much does it weigh? (in kg)
(A) $5\frac{2}{3}$
(B) $6\frac{1}{3}$
(C) $3\frac{1}{3}$
(D) $4\frac{2}{3}$

(3) A cylinder and a cone have their heights in the ratio $2:3$ and the radii of their bases in the ratio $3:4$. Find out the ratio of their volumes.
(A) $1:9$
(B) $2:9$
(C) $9:8$
(D) $1:8$

(4) How many $3-$digit numbers are comp letely divisible 6 ?
(A) 149
(B) 150
(C) 151
(D) 166

(5) A cloth merchant says that due to slump in the market, he sells cloth at 10% loss, but he uses a inaccurate metre scale and actually gains 15%. Find out the actual length of the scale. (in cm)
(A) 72.4
(B) 71.34
(C) 78.25
(D) None of these

(6) The area of a triangle whose sides are $15\,m, 16\,m$ and $17\,m$ is
(A) $24\sqrt{4}m^2$
(B) $24\sqrt{3}m^2$
(C) $24\sqrt{21}m^2$
(D) None of these

(7) The simplification of $\left[\frac{1}{2} + \frac{1}{2}\left\{\frac{3}{4} - \frac{1}{2}\left(\frac{7}{8} - \frac{3}{4}\right)\right\}\right]$ yields
(A) $\frac{27}{16}$
(B) $\frac{27}{32}$
(C) $\frac{27}{64}$
(D) $\frac{107}{112}$

(8) Which term of the geometric sequence $\frac{1}{3}, \frac{1}{9}, \frac{1}{27}, \ldots$ is $\frac{1}{19683}$?
(A) 9
(B) 7
(C) 11
(D) 13

(9)

60	121	131	264	284	571	601
120	(A)	(B)	(C)	(D)	(E)	

Which of the following numbers will come in place of (D)?
(A) 524
(B) 1011
(C) 1010
(D) 514

(10) Inside a square plot, a circular garden is developed which exactly fits in the square plot and the diameter of the garden is equal to the side of the square plot which is $28\,m$. What is the area of the space left out in the square plot after developing the garden? (in m^2)
(A) 98
(B) 146
(C) 84
(D) 168

(11) If $(\sin\alpha + \csc\alpha)^2 + (\cos\alpha + \sec\alpha)^2 = K + \tan^2\alpha + \cot^2\alpha$, then the value of K is
(A) 1
(B) 7
(C) 3
(D) 5

(12) The least integer k which makes the roots of the equation $x^2 + 5x + k = 0$ imaginary is
(A) 4
(B) 5
(C) 6
(D) 7

(13) $0.5737373\ldots\ldots =$
(A) $\frac{284}{497}$
(B) $\frac{283}{495}$
(C) $\frac{568}{990}$
(D) $\frac{567}{990}$

(14) The angle of elevation of a ladder leaning against a house is $60°$ and the foot of the ladder is $6.5m$ from the house. Find the length of the ladder in metres.
(A) 3.25
(B) $\frac{13}{\sqrt{3}}$
(C) 13
(D) 15

(15) $Rs.600$ becomes $Rs.720$ in $4\,years$ when the interest is simple. If the rate of interest is increased by 2%, then what will be total amount (In $Rs.$) ?
(A) 642
(B) 724
(C) 725
(D) 768

(16) A boat takes $90\,minutes$ less to travel $36\,miles$ downstream than to travel the same distance upstream. If the speed of the boat in still water is $10\,metre/hour$, the speed of the stream is…….m/hr
(A) 2
(B) 2.5
(C) 3
(D) 4

(17) If A and B are two sets such that A has 40 elements, $A \cup B$ has 60 elements and $A \cup B$ has 10 elements, how many elements does B have?
(A) 40
(B) 30
(C) 45
(D) 50

(18) A prism with a right triangular base is $25\,cm$ high. If the shorter sides of the triangle are in the ration of $1:2$ and the volume of the prism is $100\,cm^3$ what is the length of the longest side of the triangle?
(A) $\sqrt{5}\,cm$
(B) $2\sqrt{5}\,cm$
(C) $5\sqrt{2}\,cm$
(D) $5\,cm$

(19) If $A = \{a, d\}, B = \{b, c, e\}$ and $C = \{b, c, f\}$, then $A \times (B \cap C) =$
(A) ϕ
(B) $(A \times B) \cap (A \times C)$
(C) $(A \times B) \cup (A \times C)$
(D) None of these

(20) Mr Gupta deposits ₹ 3000 in a bank at 10 % *p.a.* and ₹ 5000 in another bank at 8% *p.a..* The rate of interest (In %) for the whole sum is

(A) 8.50   (B) 8.75

(C) 8   (D) None of these

(21) 72% of the students of a certain class took Biology and 44% took Mathematics. If each student took at least one of Biology or Mathematics and 40 students took both of these subjects, the total number of students in the class is

(A) 200   (B) 240

(C) 250   (D) 320

(22) The average salary per head of all workers of an institution is $Rs.\,60$. The average salary per head of 12 officers is $Rs.\,400$. The average salary per head of the rest is $Rs.\,56$. Then, the total number of workers in the institution is?

(A) 1030   (B) 1032

(C) 1062   (D) 1060

(23) What is the probability, that a leap year selected at random will contain 53 Sundays?

(A) $\frac{1}{7}$ (B) $\frac{3}{7}$

(C) $\frac{4}{7}$ (D) $\frac{2}{7}$

(24) Consider the equation $px^2 + qx + r = 0$, where $p\ q, r$ are real. The roots are equal in magnitude but opposite in sign when

(A) $q = 0, r = 0, p \neq 0$ (B) $p = 0, qr \neq 0$

(C) $r = 0, pr \neq 0$ (D) $q = 0, pr \neq 0$

(25) When the rate of interest in a bank is reduced from 5% p.a. to 4.5% p.a., Bani deposited $Rs.4000$ in her saving account. She found that the new interest income remained the same as before. Find hen original deposit (In $Rs.$) ?

(A) 3600   (B) 3150

(C) 2980   (D) 2768

(26) If we multiply a fraction by itself and divide the product by its reciprocal, the fraction thus obtained is $18\frac{26}{27}$. The original fraction is

(A) $\frac{8}{27}$ (B) $2\frac{2}{3}$

(C) $1\frac{2}{3}$ (D) None of these

(27) 10 coins are tossed. What is the probability that exactly 5 heads appear?

(A) $\frac{63}{256}$ (B) $\frac{126}{256}$

(C) $\frac{186}{256}$ (D) $\frac{65}{256}$

(28) If $U = \{a, b, c, d, e, f\}$, $A = \{a, b, c\}$, find $(U \cup A')$

(A) U (B) A

(C) ϕ (D) None of these

(29) The lengths of three medians of a triangle are $9\,cm\ 12\,cm$ and $15\,cm$. The area $(in\ cm^2)$ of the triangle is

(A) 24   (B) 72

(C) 48   (D) 144

(30) There are 35 students in a hostel. If the number of students increased by 7, the expenses of the mess were increased by $Rs.\,42$ per day while the average expenditure per head decreased by $Rs.\,1$, Find out the actual expenditure of the mess. (in $Rs.$)

(A) 480   (B) 440

(C) 520   (D) 420

(31) Find the present (In ₹) worth of ₹ 9261 due 3 years, hence at 5% per annum compounded yearly.

(A) 7000   (B) 8000

(C) 9000   (D) None of these

(32) Anil and Nikhil started a business with investing $Rs.3300$ and $Rs.5000$ respectively. If they earned profit of 1660 then what will be Anil's share?

(A) 640   (B) 650

(C) 655   (D) 660

(33) A does half as much work as B in $three-fourth$ of the time. If together they take $18\ days$ to complete a work, how much time shall B take to do it alone? (in $days$)

(A) 30   (B) 35

(C) 40   (D) 45

(34) A right prism has a triangular base whose sides are $13\,cm, 20\,cm$ and $21\,cm$. If the altitude of the prism is $9\,cm$, then its volume is......cm^3

(A) 1413   (B) 1314

(C) 1143   (D) 1134

(35) The volume of a cylinder is $448\,\pi\,cm^3$ and height $7\,cm$. Then, its lateral surface area and total surface area are?

(A) $349\,cm^2$ and $753.286\,cm^2$ (B) $352\,cm^2$ and $754.286\,cm^2$

(C) $353\,cm^2$ and $755.286\,cm^2$ (D) $351\,cm^2$ and $754.682\,cm^2$

(36) What annual payment (In $Rs.$) will discharge a debt of $Rs.770$ due in 5 years, the rate of interest being 5% per annum?

(A) 100   (B) 110

(C) 120   (D) 140

(37) 15 men take $20\ days$ to complete a job working $8\ hours$ a day. The number of hours a day should 20 men take to complete the job in $12\ days$ is

(A) 5   (B) 10

(C) 15   (D) 18

(38) The value of $\frac{\sin 150° - 5\cos 300° + 7\tan 225°}{\tan 135° + 3\sin 210°}$ is

(A) 2   (B) 1

(C) -1 (D) -2

(39) At a game of billiards, A can give B 6 points in 50 and he can give C 13 in 65. In a game of 55 number of points B can give C is

(A) 3   (B) 4

(C) 5   (D) 8

(40) What is the area of a given right$-$angled triangle?
I. The length of the hypotenuse is $5\,cm$.
II. The perimeter of the triangle is four times that of itsbase.
III. Oneof the angles of the triangle is $60°$.

(A) Only II (B) Only III

(C) Either II or III (D) Both I and III

(41) If $A.M.$ of the roots of a quadratic equation is $8/5$ and $A.M.$ of their reciprocals is $8/7$, then the equation is

(A) $5x^2 - 16x + 7 = 0$ (B) $7x^2 - 16x + 5 = 0$

(C) $7x^2 - 16x + 8 = 0$ (D) $3x^2 - 12x + 7 = 0$

(42) In a laboratory, two bottles contain mixture of acid and water in the ratio $2 : 5$ in the first bottle and $7 : 3$ in the second. The ratio in which the contents of these two bottles be mixed such that the new mixture has acid and water in the ratio $2 : 3$ is

(A) $4 : 15$ (B) $9 : 8$

(C) $21 : 8$ (D) $1 : 2$

(43) In a $729\,L$ mixture of milk and water, the ratio of milk to water is $7:2$. To get a new mixture containing milk and water in the ratio $7:3$, the amount of water to be added is (in L)

(A) 81   (B) 71

(C) 56   (D) 50

(44) In how many different ways can the letters of the word $'ALLAHABAD'$ be permuted?

(A) 7560   (B) 7840

(C) 7460   (D) 7650

(45) A person has to cover a distance of $6\,km$ in $45\,minutes$. If he covers one-half of the distance in two-third of the total time, to cover the remaining distance in the remaining time, his speed (in km/hr) must be

(A) 6   (B) 8

(C) 122   (D) 15

(46) When a polynomial $f(x)$ is divided by $x-3$ and $x+6$, the respective remainders are 7 and 22 What is the remainder when $f(x)$ is divided by $(x-3)(x+6)$?

(A) $\frac{-5}{3}x+12$ (B) $\frac{-7}{3}x+14$

(C) $\frac{-5}{3}x+16$ (D) $\frac{-7}{3}x+12$

(47) A pipe can empty a cistern in $27\,hours$. Find the time (in $hours$) in which $\frac{2}{3}$ part of the cistern will be emptied?

(A) 9   (B) 12

(C) 15   (D) 18

(48) 2 pipes A and B can fill a tank separately in $60\,min$ and $70\,min$ respectively. There is a third pipe attached to the bottom of the tank to empty it. The tank is filled in $60\,min$ when all three pipes are opened. In how much time (min) the third pipe alone take to fill the tank?

(A) 110   (B) 70

(C) 120   (D) 90

(49) A sum of ₹ 7700 is to be divided among three brothers Vikas, Vijay and Viraj in such a way that simple interest on each part at 5% $p.a.$ after $1, 2$ and $3\,years$, remains equal. The share (In ₹) of Vikas is more than that of Viraj by

(A) 2800   (B) 2500

(C) 3000   (D) None of these

(50) The sum of two numbers is 24 and their product is 143. The sum of their squares is

(A) 296   (B) 295

(C) 290   (D) 228

Reasoning - Section A (MCQ)

(51) Choose the correct alternative for the given relation.
Water : Convection : : Space : ?

(A) Conduction   (B) Transference

(C) Vacuum   (D) Radiation

(52) B is twice as old as A but twice younger than F.

C is half the age of A but twice the age of D.

Which two persons form the pair of oldest and youngest?

(A) F and A (B) F and D

(C) F and C (D) None of these

(53) There are six persons A, B, C, D, E and $F. C$ is the sister of $F. B$ is the brother of $E's$ husband. D is the father of A and grandfather of F. There are two fathers, three brothers and a mother in the group.

Who is the mother?

(A) A (B) B

(C) D (D) E

(54) Choose the correct alternative for the given relation.
Pain : Ache

(A) Fever : Illness   (B) Suffering : Trouble

(C) Lazy : lethargic   (D) Damp : Arid

(55) How many three - letter meaningful words can be formed from the word $TEAR$ beginning with $'A'$ without repeating any letter within that word?

(A) One   (B) Three

(C) Five   (D) Two

(56) Sachin is sitting to the immediate left of Meena but not next to Bharti. Parveen is sitting to the right of Bharti. If the four friends are sitting in a circle, who is sitting to the immediate right of Meena?

(A) Parveen   (B) Bharti

(C) Sachin   (D) Meena

(57) Below, the word $EXPAND$ has been written in four different codes by applying four different rules which are given as four alternatives against it. A word has been written in one of these codes. Find the alternative applicable to each word and mark your answer.

$EXPAND$ (a)$FYQBOE$ (b)$EPDTCR$ (c) $GYRBPE$ (d) $CWNZLC$

$MUSHROOM$ $MUSHROOM$

(A) $FYQBOE$ (B) $EPDTCR$

(C) $GYRBPE$ (D) $CWNZLC$

(58) Arrage the given words in proper sequence and choose the most approprriate sequence.

. Police

2. Punishment

3. Crime

4. Justice

5. Judgement

(A) $1, 2, 3, 4, 5$ (B) $3, 1, 2, 4, 5$

(C) $3, 1, 4, 5, 2$ (D) $5, 3, 2, 1, 4$

(59) Choose the correct alternative for the given relation.
Lawn : Grass

(A) Wool : Sheep   (B) Skin : Goat

(C) Fur : Pelt   (D) Rice : Farm

(60) Choose the correct alternative for the given relation.
Glucose : Carbohydrate : : Soyabean : ?

(A) Proteins   (B) Vitamins

(C) Minerals   (D) Legumes

(61) In a certain language, 36492 is written as $SMILE$ and 058 is written as RUN. How is 3425 coded in that lanquage?

(A) $SEIU$ (B) $SIUE$

(C) $SRUI$ (D) $SIEU$

(62) Choose the group of letters which is different from other groups.

(A) $CFIL$ (B) $PSVX$

(C) $JMPS$ (D) $ORUX$

(63) Choose the correct description for the given relation.
Hiss : Hoot : Trumpet

(A) They are sounds made by certain creatures

(B) They are joyous cries of children.

(C) They are sounds made by war-instruments.

(D) The terms are used in connection with under-world activities.

(64) Choose the correct alternative for the given relation.
Platform : Train
(A) Aeroplane : Aerodrome   (B) Hotel : Tourist

(C) Quay : Ship   (D) Footpath : Traveller

(65) In a certain code, $GOODNESS$ is coded as $HNPCODTR$.
How is $GREATNESS$ coded in that code?
(A) $HQFZUODTR$ (B) $HQFZUMFRT$

(C) $HQFZSMFRT$ (D) $FSDBSODTR$

(66) Find out the wrong term from given series.

445, 221, 109, 46, 25, 11, 4
(A) 25   (B) 46

(C) 109   (D) 221

(67) Lokesh's school bus is facing North when it reaches his school. After starting from Lokesh's house, it turns right twice and then left before reaching the school. What direction was the bus facing when it left the bus stop in front of Lokesh's house ?
(A) North   (B) South

(C) East   (D) West

(68) Choose the correct alternative for the given relation.
Entrepreneur : Profit : : Scholar : ?
(A) Income   (B) Knowledge

(C) Service   (D) Business

(69) Showing the man receiving the prize, Saroj said, He is the brother of my uncle's daughter.' Who is the man to Saroj?
(A) Son   (B) Brother-in-law

(C) Nephew   (D) Cousin

(70) choose the correct alternative for missing term.

$AB, DEF, HIJK, ?, STUVWX$
(A) $MNOPQ$ (B) $LMNOP$

(C) $LMNO$ (D) $QRSTU$

(71) Choose the odd one out from the given Words.
(A) Lima   (B) Algiers

(C) New York   (D) Tokyo

(72) Sudheesh walked $10\,metres$ towards south. He turned left and walked $20\,metres$ and then moved to his right. Then he turned right and walked $20\,metres$. Finally he turned right and moved a distance of $10\,metres$. How far and in which direction is he from the starting point ?
(A) $10\,m$ north   (B) $20\,m$ south

(C) $20\,m$ north   (D) $10\,m$ south

(73) Choose the odd one out from the given Words.
(A) Tarapur   (B) Kota

(C) Kalpakkam   (D) Paradeep

(74) Choose the correct alternative for the given relation.
Yen : Currency
(A) Brass : Metal   (B) Flower : Fragrance

(C) Paper : Book   (D) Karnataka : State

(75) Choose the odd one out from the given Words.
(A) Tall   (B) Huge

(C) Thin   (D) Sharp

(76) Choose the numeral pair or group which is different from other given pairs.
(A) $56 - 8$ (B) $121 - 17$

(C) $147 - 21$ (D) $168 - 24$

(77) Number of letters skipped in between adjacent letters in the series are multiples of 3. Which of the following series observes this rule?
(A) $AELPZ$ (B) $GKOTZ$

(C) $LORUX$ (D) $DHLPU$

(78) Choose the odd one out from the given Words.
(A) Tiger   (B) Cow

(C) Cheetah   (D) Leopard

(79) A is the father of C. But C is not his son.

E is the daughter of C. F is the spouse of A.

B is the brother of C. D is the son of B.

G is the spouse of B. H is the father of G.

Who is the son of F ?
(A) B (B) C

(C) D (D) E

(80) Choose the correct alternative for the given relation.
Vaseline : Petrol
(A) Tea : Leaves   (B) Plant : Tree

(C) Butter : Ghee   (D) Cream : Milk

(81) Choose the correct alternative for the given relation.
Acoustic : Sound
(A) Mathematics : Geometry (B) Radio : Song

(C) Pathology : Disease   (D) Communication : Phone

(82) Choose the odd one out from the given Words.
(A) Mercury   (B) Acetone

(C) Petrol   (D) Kerosene

(83) Choose the correct alternative for the given relation.
Jama Masjid : Delhi : : Red Square : ?
(A) Hyderabad   (B) Moscow

(C) New York   (D) Lahore

(84) Chef is related to restaurant in the same way druggist is related to.......
(A) medicine   (B) pharmacy

(C) store   (D) chemist

(85) Select the combination of numbers so that letters arranged accordingly will form a meaningful word.

$V\ A\ R\ S\ T\ E$

$1\ 2\ 3\ 4\ 5\ 6$
(A) $2, 3, 1, 6, 4, 5$ (B) $4, 5, 2, 3, 1, 6$

(C) $6, 3, 4, 5, 2, 1$ (D) $3, 2, 4, 5, 6, 1$

(86) A is the father of C. But C is not his son.

E is the daughter of C. F is the spouse of A.

B is the brother of C. D is the son of B.

G is the spouse of B. H is the father of G.

Who is the grandmother of D ?
(A) A (B) C

(C) F (D) H

(87) In a certain code $DUPLICATE$ is written as $MRVFJFVBE$. How is $CARTOUCHE$ written in that code?

(A) $UTBEPWDJF$ (B) $UTBFQFJDW$

(C) $UTBEQFJDW$ (D) $UTBEPFJDW$

(88) Choose the correct alternative for the given relation.
Car : Petrol : : Television : ?

(A) Electricity   (B) Transmission

(C) Entertainment   (D) Antenna

(89) Fill in the black space for given series with correct alternative.

$2, 3, 5, 7, 11, (\ldots), 17$

(A) 12   (B) 13

(C) 14   (D) 15

(90) 1. There are five friends-Sonal, Ratheesh, Manoj, Ashok and Gireesh.

2. Sonal is shorter than Ratheesh but taller than Gireesh.

3. Manoj is the tallest.

4. Ashok is a little shorter than Ratheesh and little taller than Sonal.

Who is taller than Ashok but shorter than Manoj ?

(A) Manoj   (B) Ratheesh

(C) Gireesh   (D) Ashok

(91) If the digits of the number 5726489 are arranged in ascending order, how many digits will remain at the same position

(A) None   (B) One

(C) Two   (D) Three

(92) Choose the correct alternative for the given relation.
Ribs : Lungs

(A) Heart : Artery   (B) Fingers : Hands

(C) Tongue : Mouth   (D) Shell : Nut

(93) If $PALE$ is coded as 2134, $EARTH$ is coded as 41590, how is $PEARL$ coded in that code?

(A) 29530   (B) 24153

(C) 25413   (D) 25430

(94) C is $A's$ fathers nephew. D is $A's$ cousin but not the brother of C. How is D related to C ?

(A) Father   (B) Sister

(C) Mother   (D) Aunt

(95) Choose the correct alternative for the given relation.
Rain : Patter

(A) Door : Bang   (B) Birds : Flight

(C) Animal : Graze   (D) Men : Walk

(96) In a certain code language.
(A) 'pit na som' means 'bring me water'
(B) 'najo tod' means 'water is life'
(C) 'tub od pit' means 'give me toy'
(D) 'jo lin hot' means 'life and death'
To find out the answer to the above question, which of the following statements can be dispensed with ?

(A) (A) only   (B) (C) only

(C) (B) or (C) only   (D) (D) only

(97) Arrage the given words in proper sequence and choose the most appoprriate sequence.

1. Andhra Pradesh

2. Universe

3. Tirupathi

4. World

5. India

(A) $1, 5, 3, 2, 4$ (B) $2, 1, 3, 5, 4$

(C) $2, 1, 3, 5, 4$ (D) $5, 4, 2, 1.3$

(98) Which of the following will come in place of the question mark $(?)$ in the order given below?

$AC, EH, IM, MR, ?$

(A) MI (B) IL

(C) IM (D) QW

(99) Choose the correct alternative for the given relation.
Applique : Ornament : : Impound : ?

(A) Confiscate   (B) Powder

(C) Grab   (D) Snatch

(100) How many numbers from $11\ to\ 50$ are there which are exactly divisible by 7 but not by 3 ?

(A) Two   (B) Four

(C) Five   (D) Six

Verbal - Section A (MCQ)

(101) Choose the word which best expresses the meaning of the given word. Minion

(A) Monster   (B) Dependent

(C) Minor   (D) Miser

(102) choose the appropriate word which can be substituted for the given sentence.Tending to move away from the centre or axis

(A) Centrifugal   (B) Centripetal

(C) Axiomatic   (D) Awry

(103) Pick up the one which is most nearly the same in meaning as the word highlighted.

The leader nodded his $approbation$.

(A) understanding   (B) admiration

(C) approval   (D) appreciation

(104) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) He is not coming tomorrow

(B) as he is having a pain in the chest

(C) and has to see a doctor.

(D) No error.

(105) Find the correctly spelt word from given Words.

(A) Affectionate   (B) Afectionate

(C) Affectionaite   (D) Afectionaite

(106) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) The mission provides

(B) able service to all

(C) the needy people in this area

(D) during last few years.

(107) choose the appropriate word which can be substituted for the given sentence.Having superior or intellectual interests

and tastes

(A) Elite   (B) Highbrow

(C) Sophisticated   (D) Fastidious

(108) Choose one of the following options that means the opposite of the given word

Major

(A) Big   (B) Strong

(C) Minor   (D) Heavy

(109) choose the appropriate word which can be substituted for the given sentence.A place where monks live as a secluded community

(A) Cathedral   (B) Diocese

(C) Convent   (D) Monastery

(110) .... orbit around the Earth.P. a stationary$Q$. satellites have$R$. communication$S$. Some of the

(A) $SQPR$ (B) $QRPS$

(C) $PQSR$ (D) $SRQP$

(111) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) On the busy Ring Road

(B) we witnessed a collusion

(C) between a truck and an auto.

(D) No error.

(112) Choose the alternative which best expresses the meaning of Highlighted idiom/phrase.
He never liked the idea of keeping his wife $under\ his\ thumb$ and so he let her do what she liked.

(A) Pressed down   (B) Unduly under control

(C) Below his thumb   (D) Under tyrannical conditions.

(113) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) If I were him,   (B) I would have taught

(C) those cheats a lesson.   (D) No error.

(114) Which of phrases given below each sentence should replace the phrase printed in bold type to make the grammatically correct?
Tom found the silver coin $as\ he\ cleaning$ the floor.

(A) as he cleans   (B) as he cleaned

(C) as he is cleaning   (D) while cleaning

(115) In the following questions choose the word which is the exact OPPOSITE of the given words.

NIGGARDLY

(A) Frugal   (B) Thrifty

(C) Generous   (D) Stingy

(116) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) Such   (B) rules do not

(C) apply to   (D) you and I

(117) Choose the alternative which best expresses the meaning of Highlighted idiom/phrase.
We were in hurry. The road being zigzag we had to $cut\ off\ a\ corner$ to reach in time.

(A) To cut a portion of the road   (B) To take a short cut

(C) To go fast   (D) To take an alternative route

(118) choose the appropriate word which can be substituted for the given sentence.The part of government which is concerned with making of rules

(A) Court   (B) Tribunal

(C) Bar   (D) Legislature

(119) Choose the word which best expresses the meaning of the given word. Abandon

(A) Ditch   (B) Forsake

(C) Renounce   (D) All of the above

(120) choose the appropriate word which can be substituted for the given sentence.A person who remains confident or hopeful about the success of something

(A) Pessimist   (B) Optimist

(C) Creator   (D) None of the above

(121) Choose the word which best expresses the meaning of the given word. Luxuriant

(A) ample   (B) abundant

(C) lavish   (D) all of the above

(122) Pick up the one which is most nearly the same in meaning as the word highlighted.

Instead of putting up a united front against on common enemy, the medieval states frittered away their energy in $internecine$ warfare.

(A) baneful   (B) mutually destructive

(C) pernicious   (D) detrimental

(123) Today with advancement$P$. for computer science graduates$Q$. in the field of computer science$R$. there a are plethora of opportunities$S$. and belief of one world

(A) $RSPQ$ (B) $RQSP$

(C) $QSRP$ (D) $SQRP$

(124) choose the appropriate word which can be substituted for the given sentence.A person who knows many foreign languages

(A) Linguist   (B) Grammarian

(C) Polyglot   (D) Bilingual

(125) Some cups ...., whereas others are hot.P. touch$Q$. cold$R$. are$S$. to the

(A) $SPRQ$ (B) $RQSP$

(C) $QSPR$ (D) $PQRS$

(126) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) All of you will agree with me

(B) that no problem faced by our society

(C) is as grave and intractable

(D) as this problem is

(127) Choose the word which best expresses the meaning of the given word. Distort

(A) Dutiful   (B) Deform

(C) Harm   (D) Disturb

(128) Complete the sentence by selecting the most appropriate word/phrase from the given options. The boy was cured .... typhoid.

(A) from   (B) of

(C) for   (D) through

(129) In the following questions choose the word which is the exact OPPOSITE of the given words.

VANITY
(A) Pride   (B) Conceit
(C) Humility   (D) Ostentatious

(130) In the following questions choose the word which is the exact OPPOSITE of the given words.

FRESH
(A) Stale   (B) Disgraceful
(C) Sluggish   (D) Faulty

(131) choose the appropriate word which can be substituted for the given sentence. A group of worshipers assembled for the religious ceremony
(A) aggregation   (B) priests
(C) crowd   (D) congregation

(132) Find the correctly spelt word from given Words.
(A) Proucurement   (B) Procuremant
(C) Procurement   (D) Proucuremant

(133) In the following questions choose the word which is the exact OPPOSITE of the given words.

ACQUITTED
(A) Freed   (B) Convicted
(C) Burdened   (D) Entrusted

(134) Find the wrongly spelt word from given Words.
(A) Filled   (B) Fulfiled
(C) Expelled   (D) Skilled

(135) Improve the Highlighted part of the sentence given below. But in all these cases conversion from scale $have\ well-formulated.$
(A) can be well-formulated   (B) are well-formulated
(C) well-formulated   (D) No improvement

(136) Which of phrases given below each sentence should replace the phrase printed in bold type to make the grammatically correct?
My hair $stood\ off\ ends$ when I saw the horrible sight.
(A) stood at ends   (B) stood on ends
(C) stood to ends   (D) stands on ends

(137) Choose the alternative which best expresses the meaning of Highlighted idiom/phrase.
Companies producing goods $play\ to\ the\ gallery$ to boost their sales.
(A) advertise
(B) cater to the public taste
(C) attempt to appeal to popular taste
(D) depend upon the public for approval

(138) Choose the word which best expresses the meaning of the given word.

CANTANKEROUS
(A) Rash   (B) Quarrelsome
(C) Disrespectful   (D) Noisy

(139) Find the correctly spelt word from given Words.
(A) Hierarchy   (B) Hiererchy
(C) Hiararchy   (D) Hiererrchy

(140) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) You will get
(B) all the information
(C) if you read this booklet carefully.
(D) No error.

(141) Which of phrases given below each sentence should replace the phrase printed in bold type to make the grammatically correct?
It $was\ until\ many\ years$ later that yoga became popular throughout the world.
(A) was many years   (B) was till many years
(C) was not until many years (D) was not many years later

(142) Complete the sentence by selecting the most appropriate word/phrase from the given options. Indeed, all over the world, more and more people are .... coffee.
(A) wanting   (B) drinking
(C) liking   (D) partaking

(143) Choose the word which best expresses the meaning of the given word.

LAMENT
(A) Comment   (B) Complain
(C) Condone   (D) Console

(144) Find the wrongly spelt word from given Words.
(A) Seperation   (B) Desertion
(C) Rejoice   (D) Serenity

(145) Choose the alternative which best expresses the meaning of Highlighted idiom/phrase.
I cannot get along with a man who $plays\ fast\ and\ loose.$
(A) behaves in an unreliable and insincere way
(B) has a loose tongue
(C) lives a life of ease and luxury
(D) does not know how to behave himself

(146) Complete the sentence by selecting the most appropriate word/phrase from the given options. If I take a state roadways bus, I'll get late, ... ?
(A) isn't it   (B) won't I
(C) will I   (D) is it

(147) Find the correctly spelt word from given Words.
(A) Swelte   (B) Filpant
(C) Licentious   (D) Puessile

(148) Find the correctly spelt word from given Words.
(A) Decompposition   (B) Decumposition
(C) Decomposetion   (D) Decomposition

(149) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.
(A) The results of the recognition
(B) of this fact are seen
(C) in the gradual improvement
(D) of the diet of the poor.

(150) Find the correctly spelt word from given Words.
(A) Accomplish   (B) Acomplush
(C) Ackmplesh   (D) Accompalish

Global Education of Science

Subject : Quantitative Aptitude, Reasoning, Verbal
Standard : 13
Total Mark : 600

MCQ and MCQ
(Answer Key)

Paper Set : 1
Date : 27-07-2024
Time : 0H:20M

Quantitative Aptitude - Section A (MCQ)

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

Reasoning - Section A (MCQ)

51 - D	52 - B	53 - D	54 - C	55 - B	56 - B	57 - D	58 - C	59 - C	60 - A
61 - D	62 - B	63 - A	64 - C	65 - B	66 - B	67 - D	68 - B	69 - D	70 - A
71 - C	72 - B	73 - D	74 - D	75 - D	76 - B	77 - A	78 - B	79 - A	80 - D
81 - C	82 - A	83 - B	84 - B	85 - B	86 - C	87 - D	88 - A	89 - B	90 - B
91 - D	92 - D	93 - B	94 - B	95 - A	96 - B	97 - C	98 - D	99 - A	100 - B

Verbal - Section A (MCQ)

101 - B	102 - A	103 - C	104 - C	105 - A	106 - A	107 - B	108 - C	109 - D	110 - D
111 - B	112 - B	113 - A	114 - D	115 - C	116 - D	117 - B	118 - D	119 - D	120 - B
121 - D	122 - B	123 - C	124 - A	125 - B	126 - B	127 - B	128 - B	129 - C	130 - A
131 - D	132 - C	133 - B	134 - B	135 - B	136 - B	137 - C	138 - B	139 - A	140 - A
141 - C	142 - B	143 - B	144 - A	145 - A	146 - B	147 - C	148 - D	149 - D	150 - A

Global Education of Science

Subject : Quantitative Aptitude, Reasoning, Verbal

Standard : 13

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MCQ and MCQ

(Solutions)

Paper Set : 1

Date : 27-07-2024

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Quantitative Aptitude - Section A (MCQ)

(1) The expression $x^2 + 2bx + c$ has the positive value if

(A) $b^2 - 4c > 0$ (B) $b^2 - 4c < 0$

(C) $c^2 < b$ **(D)** $b^2 < c$

Solution:(Correct Answer:D)

(d) $x^2 + 2bx + c = (x + b)^2 + c - b^2$

$\because (x + b)^2$ is a perfect square,

therefore the given expression is positive if $c - b^2 > 0$ or $b^2 < c$.

(2) A m^3 of metal weighing $90\,Kg$ is rolled into a square bar 9 $meter$ long. An exact cube is cut off from the bar. How much does it weigh? (in kg)

(A) $5\frac{2}{3}$ (B) $6\frac{1}{3}$

(C) $3\frac{1}{3}$ (D) $4\frac{2}{3}$

Solution:(Correct Answer:C)

(Area of the square end) $\times 9 =$ Volume $= 1m^3$

$\therefore$ Side of the square end $= \sqrt{\frac{1}{9}}m = \frac{1}{3}m$

$\therefore$ Volume of this cube $= \left(\frac{1}{3}\right)^3 m^3 = \frac{1}{27}m^3$

$\therefore$ Weight of this cube $= \frac{1}{27} \times 90Kg = 3\frac{1}{3}Kg$

(3) A cylinder and a cone have their heights in the ratio $2 : 3$ and the radii of their bases in the ratio $3 : 4$. Find out the ratio of their volumes.

(A) $1 : 9$ (B) $2 : 9$

(C) $9 : 8$ (D) $1 : 8$

Solution:(Correct Answer:C)

$h_1 : h_2 = 2 : 3$

$r_1 : r_2 = 3 : 4$

Ratio of volumes $V_1 : V_2 = \pi(3)^2 \times 2 : \frac{1}{3}\pi \times 4^2 \times 3$

$= 9 : 8$

(4) How many $3-$digit numbers are comp letely divisible 6 ?

(A) 149 **(B)** 150

(C) 151 (D) 166

Solution:(Correct Answer:B)

First 3 digit number completely divisible by 6 is 102.

Last 3 digit number completely divisible by 6 is 996

$996 = 102 + (n - 1)6$ $[a_n = a + (n - 1)d]$

$894 = (n - 1)6$

$n - 1 = \frac{894}{6} = 149 \Rightarrow n = 150$

(5) A cloth merchant says that due to slump in the market, he sells cloth at 10% loss, but he uses a inaccurate metre scale and actually gains 15%. Find out the actual length of the scale. (in cm)

(A) 72.4 (B) 71.34

(C) 78.25 (D) None of these

Solution:(Correct Answer:C)

Here, $x = -10$ and $g = 15$

Let, the inaccurate scale length $= y\,cm$

Using the formula, $\frac{100+g}{100+x} = \frac{\text{Correct measure}}{\text{Incorrect measure}}$

we get, $\frac{100+15}{100-10} = \frac{100}{y} \Rightarrow y = \frac{100 \times 90}{115} = 78.25cm$

Actual length of the scale is $78.25cm$ instead of $1m$.

(6) The area of a triangle whose sides are $15\,m, 16\,m$ and $17\,m$ is

(A) $24\sqrt{4}m^2$ (B) $24\sqrt{3}m^2$

(C) $24\sqrt{21}m^2$ (D) None of these

Solution:(Correct Answer:C)

Let, $a = 15m, b = 16m, c = 17m$

Then, $s = \frac{a+b+c}{2} = \frac{15+16+17}{2} = 24m$

$\therefore$ Area $= \sqrt{s(s-a)(s-b)(s-c)}$

$= \sqrt{24(24-15)(24-16)(24-17)}$

$= \sqrt{24 \times 9 \times 8 \times 7}$

$= \sqrt{12096} = 24\sqrt{21}m^2$

(7) The simplification of $\left[\frac{1}{2} + \frac{1}{2}\left\{\frac{3}{4} - \frac{1}{2}\left(\frac{7}{8} - \frac{3}{4}\right)\right\}\right]$ yields

(A) $\frac{27}{16}$ **(B)** $\frac{27}{32}$

(C) $\frac{27}{64}$ (D) $\frac{107}{112}$

Solution:(Correct Answer:B)

(8) Which term of the geometric sequence $\frac{1}{3}, \frac{1}{9}, \frac{1}{27}, \ldots.$ is $\frac{1}{19683}$?

(A) 9 (B) 7

(C) 11 (D) 13

Solution:(Correct Answer:A)

Let, n th term of the given sequence be $\frac{1}{19683}$. Then,

$a_n = ar^{n-1} \Rightarrow \frac{1}{19683} = \frac{1}{3}\left(\frac{1}{3}\right)^{n-1}$

$\Rightarrow \left(\frac{1}{3}\right)^8 = \left(\frac{1}{3}\right)^{n-1}$

$\Rightarrow n - 1 = 8 \Rightarrow n = 9$

(9)

60	121	131	264	284	571	601
120	(A)	(B)	(C)	(D)	(E)	

Which of the following numbers will come in place of (D)?

(A) 524 (B) 1011

(C) 1010 (D) 514

Solution:(Correct Answer:A)

Series is obtained as follows:

$1st$ term $= 60$;

$2nd$ term $= 60 \times 2 + 1 = 121$;

$3rd$ term $= 121 + 10 = 131$;

$4th$ term $= 131 \times 2 + 2 = 264$;

$5th$ term $= 264 + 20 = 284$;

$6th$ term $= 284 \times 2 + 3 = 571$;

$7th$ term $= 571 + 30 = 601$.
Here, $1st$ term $= 120$;
$2nd$ term $= 120 \times 2 + 1 = 241$
$3rd$ term $= 241 + 10 = 251$
$4th$ term $= 251 \times 2 + 2 = 504$
$5th$ term $= 504 + 20 = 524$

(10) Inside a square plot, a circular garden is developed which exactly fits in the square plot and the diameter of the garden is equal to the side of the square plot which is $28\,m$. What is the area of the space left out in the square plot after developing the garden? (in m^2)
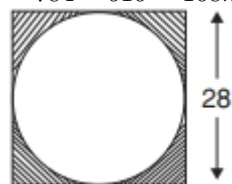
(A) 98   (B) 146

(C) 84   **(D) 168**

Solution:(Correct Answer:D)

We have to calculate the area of the shaded region which is equal to
Area of square $-$ Area of the circle.
Required answer $= 28^2 - \frac{22}{7} \times 14 \times 14$
$= 784 - 616 = 168m^2$

(11) If
$(\sin\alpha + \csc\alpha)^2 + (\cos\alpha + \sec\alpha)^2 = K + \tan^2\alpha + \cot^2\alpha$,
then the value of K is

(A) 1   **(B) 7**

(C) 3   (D) 5

Solution:(Correct Answer:B)

$(\sin a + \csc a)^2 + (\cos a + \sec a)^2$
$\sin^2 a + \csc^2 a + 2\sin a \csc a + \cos^2 a + \sec^2 a$
$+2\cos a \sec a$
$\sin^2 a + (1 + \cot^2 a) + 2\sin a \csc a + \cos^2 a + (1 + \tan^2 a) +$
$2\cos a \sec a$
$\left(\sin^2 a + \cos^2 a\right) + 1 + \cot^2 a + 2 + 1 + \tan^2 a + 2$
$\Rightarrow 7 + \tan^2 a + \cot^2 a$
$\Rightarrow$ Hence $K = 7$

(12) The least integer k which makes the roots of the equation $x^2 + 5x + k = 0$ imaginary is

(A) 4   (B) 5

(C) 6   **(D) 7**

Solution:(Correct Answer:D)

(d) Roots are non real if discriminant < 0
i.e. if $5^2 - 4.1\,k < 0$ i.e. if $4k > 25$ i.e. if $k > \frac{25}{4}$
Hence, the required least integer k is 7.

(13) $0.5737373...... =$

(A) $\frac{284}{497}$ (B) $\frac{283}{495}$

(C) $\frac{568}{990}$ (D) $\frac{567}{990}$

Solution:(Correct Answer:C)

(c) Given series $0.5737373......$
$= 0.5 + 0.073 + 0.00073$
$= 0.5 + \frac{73}{1000} + \frac{73}{100000} + ...$
$= 0.5 + 73 \left[\frac{1}{1000} + \frac{1}{100000} + ... \right]$
$= 0.5 + 73 \left[\frac{1/1000}{1 - \frac{1}{100}} \right]$

$= 0.5 + \frac{73}{1000} \cdot \frac{100}{99} = \frac{5}{10} + \frac{73}{990}$
$= \frac{495 + 73}{990} = \frac{568}{990}$.

(14) The angle of elevation of a ladder leaning against a house is $60°$ and the foot of the ladder is $6.5m$ from the house. Find the length of the ladder in metres.

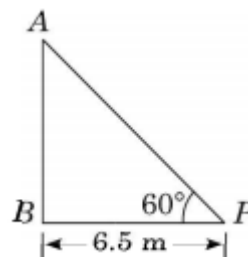(A) 3.25 (B) $\frac{13}{\sqrt{3}}$

(C) 13   (D) 15

Solution:(Correct Answer:C)

Let length of ladder AP be $'l'$ metres
From $\triangle ABP \cos 60° = \frac{BP}{AP} = \frac{6.5}{l}$
or
$l = \frac{6.5}{1/2} = 13m$ $(\because \cos 60 = 1/2)$

(15) $Rs.600$ becomes $Rs.720$ in $4\ years$ when the interest is simple. If the rate of interest is increased by 2%, then what will be total amount (In $Rs.$) ?

(A) 642   (B) 724

(C) 725   **(D) 768**

Solution:(Correct Answer:D)

$R = \frac{SI \times 100}{P \times T} = \frac{120 \times 100}{600 \times 4} = 5\%$
Now, from the second part of the question $R = 5 + 2 = 7\%$
$\therefore \quad SI = \frac{600 \times 7 \times 4}{100} = Rs.168$
$\therefore$ Amount $= P + SI = 600 + 168 = Rs.768$

(16) A boat takes $90\ minutes$ less to travel $36\ miles$ downstream than to travel the same distance upstream. If the speed of the boat in still water is $10\ metre/hour$, the speed of the stream is.......m/hr

(A) 2   (B) 2.5

(C) 3   (D) 4

Solution:(Correct Answer:A)

Let speed of stream be $x\,km/hr$
$\therefore \quad$ Downstream speed $= (10 + x)$ miles/hr.
Upstream speed $= (10 - x)$ miles/hr.
$\therefore \quad \frac{36}{(10-x)} - \frac{36}{(10+x)} = \frac{90}{60}$
i.e. $\frac{\{(10+x)-(10-x)\}36}{(10+x)(10-x)} = \frac{3}{2}$
or $\frac{72x}{(100-x^2)} = \frac{3}{2}$
or $144x = 300 - 3x^2$
or $x^2 + 48x - 100 = 0$
$\therefore (x + 50)(x - 2) = 0$
$\Rightarrow x = 2$ miles/hour

(17) If A and B are two sets such that A has 40 elements, $A \cup B$ has 60 elements and $A \cup B$ has 10 elements, how many elements does B have?

(A) 40   **(B) 30**

(C) 45   (D) 50

Solution:(Correct Answer:B)

We are given $n(A) = 40, n(A \cap B) = 60$ and $n(A \cap B) = 10$. Putting these values in the formula $n(A \cup B)$
$= n(A) + n(B) - n(A \cap B)$ we get $60 = 40 + n(B) - 10 \Rightarrow n(B) = 30$

(18) A prism with a right triangular base is $25\,cm$ high. If the shorter sides of the triangle are in the ration of $1:2$ and the volume of the prism is $100\,cm^3$ what is the length of the longest side of the triangle?

(A) $\sqrt{5}\,cm$ **(B)** $2\sqrt{5}\,cm$

(C) $5\sqrt{2}\,cm$ (D) $5\,cm$

Solution:(Correct Answer:B)

(19) If $A=\{a,d\}, B=\{b,c,e\}$ and $C=\{b,c,f\}$, then $A \times (B \cap C)=$

(A) ϕ **(B)** $(A \times B) \cap (A \times C)$

(C) $(A \times B) \cup (A \times C)$ (D) None of these

Solution:(Correct Answer:B)

$(B \cap C) = \{b,c,e\} \cap \{b,c,f\} = \{b,c\}$
$\therefore A \times (B \cap C) = \{a,d\} \times \{b,c\}$
$= \{(a,b),(a,c),(d,b),(d,c)\}$
Also, $(A \times B) \cap (A \times C)$
$= \{(a,b),(a,c),(a,b),(d,c)\}$
$\therefore \quad A \times (B \cap C) = (A \times B) \cap (A \times C)$

(20) Mr Gupta deposits ₹ 3000 in a bank at $10\%\ p.a.$ and ₹ 5000 in another bank at $8\%\ p.a.$. The rate of interest (In %) for the whole sum is

(A) 8.50 **(B)** 8.75

(C) 8 (D) None of these

Solution:(Correct Answer:B)

(b) We have, $P_1 = ₹3000, R_1 = 10\%, P_2 = ₹5000, R_2 = 8\%$
$\therefore$ Required rate of interest
$= \frac{P_1 R_1 + P_2 R_2}{P_1 + P_2}$
$= \frac{3000 \times 10 + 5000 \times 8}{3000 + 5000} = \frac{70}{8} = 8\frac{3}{4}\%$

(21) 72% of the students of a certain class took Biology and 44% took Mathematics. If each student took at least one of Biology or Mathematics and 40 students took both of these subjects, the total number of students in the class

(A) 200   (B) 240

(C) 250   (D) 320

Solution:(Correct Answer:C)

$n(A) =$ Biology students $= 72\%$
$n(B) =$ Mathematics students $= 44\%$
Total students $= n(A \cup B) = 100\%$
$\therefore \quad 100\% = 72\% + 44\% - n(A \cap B)$
$= 116\% - n(A \cap B)$
$\therefore \quad n(A \cap B) = 16\%$
$\Rightarrow$ number of students studying both subjects $= 40$
$\therefore$ Let the total number of students be x
Now, according to the question,
$\frac{16x}{100} = 40$
$\therefore \quad x = 250$

(22) The average salary per head of all workers of an institution is $Rs.\,60$. The average salary per head of 12 officers is $Rs.\,400$. The average salary per head of the rest is $Rs.\,56$. Then, the total number of workers in the institution is?

(A) 1030   **(B)** 1032

(C) 1062   (D) 1060

Solution:(Correct Answer:B)

Let the total number of workers $= x$
According to the question
$60x = 12 \times 400 + 56(x-12)$
$60x - 56x = 4800 - 672$
$4x = 4128 \Rightarrow x = 1032$

(23) What is the probability, that a leap year selected at random will contain 53 Sundays?

(A) $\frac{1}{7}$ (B) $\frac{3}{7}$

(C) $\frac{4}{7}$ **(D)** $\frac{2}{7}$

Solution:(Correct Answer:D)

A leap year has 366 days, therefore 52 weeks i.e. 52 sundays and 2 days left.
For having 53 sundays in a year, one of the remaining 2 days must be a sunday.
$\Rightarrow$ Required probability $= \frac{1}{7} + \frac{1}{7} = \frac{2}{7}$

(24) Consider the equation $px^2 + qx + r = 0$, where $p\ q, r$ are real. The roots are equal in magnitude but opposite in sign when

(A) $q=0, r=0, p \neq 0$ (B) $p=0, qr \neq 0$

(C) $r=0, pr \neq 0$ **(D)** $q=0, pr \neq 0$

Solution:(Correct Answer:D)

Let, the roots be α and $-\alpha$. Then, sum of roots $= 0$
Also, roots being not equal, discriminant $\neq 0$
$\therefore \frac{q}{p} = 0$ and $q^2 - 4pr \neq 0$
$\Leftrightarrow q = 0$ and $pr \neq 0$

(25) When the rate of interest in a bank is reduced from 5% p.a. to 4.5% p.a., Bani deposited $Rs.4000$ in her saving account. She found that the new interest income remained the same as before. Find hen original deposit (In $Rs.$) ?

(A) 3600   (B) 3150

(C) 2980   (D) 2768

Solution:(Correct Answer:A)

Here, we assume original deposit of Bani be Rs. x. $\Rightarrow$ The SI obtained in both cases is same
$\Rightarrow \quad \frac{x \times 5 \times T}{100} = \frac{4000 \times 4.5 \times T}{100}$
$[R = 5\%$ p.a. $] \quad [R = 4.5\% p.$ a. $]$
$\Rightarrow 5x = 4000 \times 4.5 \Rightarrow x =$ Rs. 3600

(26) If we multiply a fraction by itself and divide the product by its reciprocal, the fraction thus obtained is $18\frac{26}{27}$. The original fraction is

(A) $\frac{8}{27}$ **(B)** $2\frac{2}{3}$

(C) $1\frac{2}{3}$ (D) None of these

Solution:(Correct Answer:B)

$x \times x \div \frac{1}{x} = 18\frac{26}{27}$ or, $x^3 = \frac{512}{27}$
$\therefore \quad x^3 = \left(\frac{8}{3}\right)^3$ and so $x = \frac{8}{3} = 2\frac{2}{3}$

(27) 10 coins are tossed. What is the probability that exactly 5 heads appear?

(A) $\frac{63}{256}$ (B) $\frac{126}{256}$

(C) $\frac{186}{256}$ (D) $\frac{65}{256}$

Solution:(Correct Answer:A)

Total no. of outcomes $= 2^{10}$
Again, the number of favourable cases of getting exactly 5 heads $= {}^{10}C_5$
$\therefore \quad$ Required probability $= \frac{{}^{10}c_5}{2^{10}} = \frac{63}{256}$

(28) If $U = \{a,b,c,d,e,f\}, A = \{a,b,c\}$, find $(U \cup A')$

(A) U (B) A

(C) ϕ (D) None of these

Solution:(Correct Answer:C)

$U \cup A = \{a, b, c, d, e, f\} \cup \{a, b, c\}$
$= \{a, b, c, d, e, f\} = U$
$(U \cup A)' = \phi$

(29) The lengths of three medians of a triangle are $9\,cm$ $12\,cm$ and $15\,cm$. The area $(in\,cm^2)$ of the triangle is

(A) 24   **(B) 72**

(C) 48   (D) 144

Solution:(Correct Answer:B)

$BG = \frac{2}{3} \times 12 = 8cm$
$GC = \frac{2}{3} \times 15 = 10cm$
$AG = \frac{2}{3} \times 9 = 6cm$
Let, AF be $x\,cm$
Now, $\triangle AGF = \triangle GBF$
$\because CF = 15cm$ and $CG = 10cm$
$\because \quad GF = (15 - 10) = 5cm$
Now, from the Hero's formula for the area of triangle, we have

$\sqrt{\frac{6+5+x}{2} \left(\frac{6+5+x}{2} - 6\right) \left(\frac{6+5+x}{2} - x\right) \left(\frac{6+5+x}{2} - 5\right)}$
$= \sqrt{\frac{8+5+x}{2} \left(\frac{8+5+x}{2} - 8\right) \left(\frac{8+5+x}{2} - x\right) \left(\frac{8+5+x}{2} - 5\right)}$
$\Rightarrow \left(\frac{11+x}{2}\right) \left(\frac{x-1}{2}\right) \left(\frac{11-x}{2}\right) \left(\frac{x+1}{2}\right)$
$= \left(\frac{13+x}{2}\right) \left(\frac{x-3}{2}\right) \left(\frac{13-x}{2}\right) \left(\frac{x+3}{2}\right)$
$\Rightarrow \quad (11+x)(11-x)(x-1)(x+1)$
$= (13+x)(13-x)(x-3)(x+3)$
$\Rightarrow \quad (11^2 - x^2)(x^2 - 1) = (13^2 - x^2)(x^2 - 9)$
$\Rightarrow 121x^2 - x^4 - 121 + x^2 = 169x^2 - 169 \times 9 - x^4 + 9x^2$
$\Rightarrow 122x^2 - x^4 - 121 = 178x^2 - 1521 - x^4$
$\Rightarrow \quad 56x^2 = 1400$
$\Rightarrow x^2 = \frac{1400}{56} = 25$
$\Rightarrow x = \sqrt{25} = 5$
$\therefore \quad$ Side $AB = (2 \times 5) = 10cm$
Now, area of the triangle AGB
$= \sqrt{\frac{6+8+10}{2} \left(\frac{6+8+10}{2} - 6\right) \left(\frac{6+8+10}{2} - 8\right) \left(\frac{6+8+10}{2} - 10\right)}$
$= \sqrt{12(6)(4)(2)} = \sqrt{2 \times 2 \times 3 \times 2 \times 3 \times 2 \times 2 \times 2}$
$= 2 \times 2 \times 2 \times 3 = 24cm^2$
$\therefore \quad$ Area of the triangle $ABC = 3 \times AGB$
$= (3 \times 24) = 72cm^2$
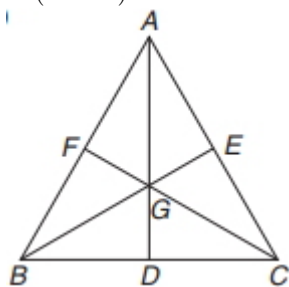
(30) There are 35 students in a hostel. If the number of students increased by 7, the expenses of the mess were increased by $Rs.\,42$ per day while the average expenditure per head decreased by $Rs.\,1$, Find out the actual expenditure of the mess. (in $Rs.$)

(A) 480   (B) 440

(C) 520   **(D) 420**

Solution:(Correct Answer:D)

Let, the original expenditure $= Rs.x$
Original average expenditure $= \frac{x}{35}$
New average expenditure $= \frac{x+42}{42}$
$\Rightarrow \frac{x}{35} - \frac{x+42}{42} = 1 \Rightarrow x = 420$
Original expenditure $= Rs.420$

(31) Find the present (In ₹) worth of ₹ 9261 due 3 years, hence at 5% per annum compounded yearly.

(A) 7000   **(B) 8000**

(C) 9000   (D) None of these

Solution:(Correct Answer:B)

(b) Here, $A = 9261, t = 3$ and $R = 5$

$\therefore \quad P\& = \dfrac{A}{\left(1 + \frac{R}{100}\right)^t} = \dfrac{9261}{\left(1 + \frac{5}{100}\right)^3}$

$\& = \dfrac{9261 \times 20 \times 20 \times 20}{21 \times 21 \times 21} = ₹8000$

(32) Anil and Nikhil started a business with investing $Rs.3300$ and $Rs.5000$ respectively. If they earned profit of 1660 then what will be Anil's share?

(A) 640   (B) 650

(C) 655   **(D) 660**

Solution:(Correct Answer:D)

Investments
Anil Rs. $\rightarrow 3300$
Nikhil Rs. $\rightarrow 5000$
Ratio of profit shares = ratio of investments = 3300 : 5000
Ratio of profit shares = 33 : 50 ↓   ↓
Anil Nikhil
Profit earned = 1660 Rs.
Anil's share $= \frac{33}{83} \times 1660 = Rs.660$

(33) A does half as much work as B in $three - fourth$ of the time. If together they take $18\,days$ to complete a work, how much time shall B take to do it alone? (in $days$)

(A) 30   (B) 35

(C) 40   (D) 45

Solution:(Correct Answer:A)

Let B take x days.
Time taken by $\frac{A}{2} = \frac{3}{4} \times x = \frac{3x}{2}$
$\frac{1}{x} + \frac{2}{3x} = \frac{1}{18} \Rightarrow \frac{3+2}{3x} = \frac{1}{18} \quad 3x = 18 \times 5 \Rightarrow x = 6 \times 5 = 30$
Required time = 30 days

(34) A right prism has a triangular base whose sides are $13\,cm, 20\,cm$ and $21\,cm$. If the altitude of the prism is $9\,cm$, then its volume is......cm^3

(A) 1413   (B) 1314

(C) 1143   **(D) 1134**

Solution:(Correct Answer:D)

$S = \frac{a+b=c}{2} \Rightarrow \frac{13+20+21}{2} = 54/2 = 27cm$
Area of base = area of triangle
$= \sqrt{S(S-a)(S-b)(S-c)}$
$= \sqrt{27(27-13)(27-20)(27-21)}$
$= \sqrt{27 \times 14 \times 7 \times 6} = 126cm^2$
Height $= 9cm$
$\therefore$ Volume of prism = Area of base $\times$ height
$= 126 \times 9 = 1134cm^3$

(35) The volume of a cylinder is $448\,\pi\,cm^3$ and height $7\,cm$. Then, its lateral surface area and total surface area are?

(A) $349\,cm^2$ and $753.286\,cm^2$ **(B)** $352\,cm^2$ and $754.286\,cm^2$

(C) $353\,cm^2$ and $755.286\,cm^2$ (D) $351\,cm^2$ and $754.682\,cm^2$

Solution:(Correct Answer:B)

Volume $= 448\pi cm^3 \Rightarrow$ Height $= 7cm$
Let radius $= rcm \Rightarrow \pi r^2 h = 448\pi$
$r^2 = \frac{448}{h} = \frac{448}{7} = 64 \Rightarrow r = 8cm$

Leteral Surface Area $= 2\pi rh$
$= 2 \times \frac{22}{7} \times 8 \times 7 = 352 cm^2$
Total surface Area $= 2\pi rh + \pi r^2 = 2\pi r(h+r)$
$= 2 \times \frac{22}{7} \times 8 \times (7+8)$
$= \frac{5280}{7} = 754.286 cm^2$

(36) What annual payment (In $Rs.$) will discharge a debt of $Rs.770$ due in 5 years, the rate of interest being 5% per annum?

(A) 100   (B) 110

(C) 120   **(D) 140**

Solution:(Correct Answer:D)

The annual payment that will discharge a debt of Rs. A due in t years at the rate of interest $r\%$ per annum is
$= \frac{100A}{100t + \frac{rt(t-1)}{2}} = \frac{100 \times 770}{5 \times 100 + \frac{5 \times 4 \times 5}{2}} = Rs \cdot 140$

(37) 15 men take $20\ days$ to complete a job working $8\ hours$ a day. The number of hours a day should 20 men take to complete the job in $12\ days$ is

(A) 5   **(B) 10**

(C) 15   (D) 18

Solution:(Correct Answer:B)

$M_1 D_1 T_1 = M_2 D_2 T_2$
$\Rightarrow 15 \times 20 \times 8 = 20 \times 12 \times T_2$
$\Rightarrow T_2 = \frac{15 \times 20 \times 8}{20 \times 12} = 10$ hours

(38) The value of $\frac{\sin 150° - 5\cos 300° + 7\tan 225°}{\tan 135° + 3\sin 210°}$ is

(A) 2   (B) 1

(C) -1 **(D) -2**

Solution:(Correct Answer:D)

$\frac{\sin 150° - 5\cos 300° + 7\tan 225°}{\tan 135° + 3\sin 210°}$
$= \frac{\sin(180° - 30°) - 5\cos(360° - 60°) + 7\tan(180° + 45°)}{\tan(180° - 45°) + 3\sin(180° + 30°)}$
$= \frac{\sin 30° - 5\cos 60° + 7\tan 45°}{-\tan 45° - 3\sin 30°} = \frac{\frac{1}{2} - \frac{5}{2} + 7}{-1 - \frac{3}{2}} = -2$

(39) At a game of billiards, A can give B 6 points in 50 and he can give C 13 in 65. In a game of 55 number of points B can give C is

(A) 3   (B) 4

(C) 5   (D) 8

Solution:(Correct Answer:C)

In a game of 50.
While A scores 50, B scores $50 - 6 = 44$ and in a game of 65.
While A scores 65, C scores $65 - 13 = 52$.
$\therefore$ While A scores $50, C$ scores $\frac{52}{65} \times 50 = 40$
$\therefore$ While B scores $44, C's$ score $= 40$
While B scores $55, C$'s score $= \frac{40}{44} \times 55 = 50$
$\therefore$ In a game of 55,
B can give C $55 - 50 = 5$ points.

(40) What is the area of a given right$-$angled triangle?
$I.$ The length of the hypotenuse is $5\ cm$.
$II.$ The perimeter of the triangle is four times that of itsbase.
$III.$ Oneof the angles of the triangle is $60°$.

(A) Only II (B) Only III

(C) Either II or III **(D) Both I and III**

Solution:(Correct Answer:D)

From $I. AC = 5cm$
From $II.$ Perimeter $= 4\times$ base

From $III.$ One of the angles of the triangle, say $\angle C$, be $60°$
From I and $III. \cos 60° = \frac{BC}{AC}$
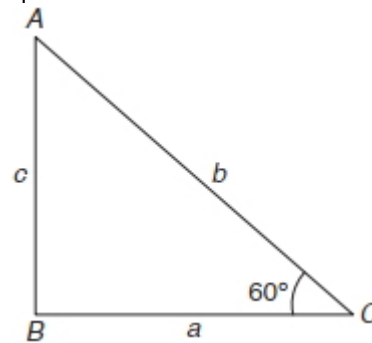or, $BC = AC \times \cos 60° = \frac{5}{2}$
$a = \frac{5}{2}, b = 5 (\because AC = b)$
Now, area of the triangle $ABC = \frac{1}{2}ab\sin\theta$
$= \frac{1}{2} \times \frac{5}{2} \times 5 \times \sin 60°$
$= \frac{5}{4} \times \frac{\sqrt{3}}{2} = \frac{25}{8}\sqrt{3}cm^2$
Hence, statement I and III are sufficient to answer the question.

(41) If $A.M.$ of the roots of a quadratic equation is $8/5$ and $A.M.$ of their reciprocals is $8/7$, then the equation is

(A) $5x^2 - 16x + 7 = 0$ (B) $7x^2 - 16x + 5 = 0$

(C) $7x^2 - 16x + 8 = 0$ (D) $3x^2 - 12x + 7 = 0$

Solution:(Correct Answer:A)

(a) Let the roots are α and β
$\Rightarrow \frac{\alpha + \beta}{2} = \frac{8}{5} \Rightarrow \alpha + \beta = \frac{16}{5} \ldots..(i)$
and $\frac{\frac{1}{\alpha} + \frac{1}{\beta}}{2} = \frac{8}{7} \Rightarrow \frac{\alpha + \beta}{2\alpha\beta} = \frac{8}{7} \Rightarrow \frac{(16/5)}{2(8/7)} = \alpha\beta$
$\Rightarrow \alpha\beta = \frac{7}{5} \ldots..(ii)$
Equation is $x^2 - \left(\frac{16}{5}\right)x + \frac{7}{5} = 0$
$\Rightarrow 5x^2 - 16x + 7 = 0.$

(42) In a laboratory, two bottles contain mixture of acid and water in the ratio $2:5$ in the first bottle and $7:3$ in the second. The ratio in which the contents of these two bottles be mixed such that the new mixture has acid and water in the ratio $2:3$ is

(A) $4:15$ (B) $9:8$

(C) $21:8$ (D) $1:2$

Solution:(Correct Answer:C)

Let the required ratio be $x:y$
Now, according to the question,
$\frac{2x}{\frac{7}{5x} + \frac{3y}{10}} = \frac{2}{3}$
$\Rightarrow \frac{20x + 49y}{50x + 21y} = \frac{2}{3}$
$\Rightarrow 60x + 147y = 100x + 42y$
$\Rightarrow 100x - 60x = 147y - 42y$
$\Rightarrow 40x = 105y$
$\Rightarrow \frac{x}{y} = \frac{105}{40} = \frac{21}{8}$

(43) In a $729\ L$ mixture of milk and water, the ratio of milk to water is $7:2$. To get a new mixture containing milk and water in the ratio $7:3$, the amount of water to be added is (in L)

(A) 81   (B) 71

(C) 56   (D) 50

Solution:(Correct Answer:A)

Quantity of milk $= \frac{7}{9} \times 729 = 567L$
Quantity of water $= (729 - 567) = 162L$
Let the amount of water be added be $x\ L.$
$\frac{567}{162 + x} = \frac{7}{3} \Rightarrow 1701 = 7x + 1134$
$7x = 1701 - 1134 \Rightarrow x = \frac{567}{7} = 81L$

(44) In how many different ways can the letters of the word '$ALLAHABAD$' be permuted?

(A) 7560   (B) 7840

(C) 7460   (D) 7650

Solution:(Correct Answer:A)

(a) The word ALLAHABAD has 9 letters in all. The letter A' occurs 4 times, the letter L' occurs 2 times and the remaining three letters H, B, D each occur once.

∴ The require number of permutations
$= \frac{9!}{4!2!1!1!} = \frac{9 \times 8 \times 7 \times 6 \times 5 \times 4!}{4! \times 2}$
$= 9 \times 8 \times 7 \times 3 \times 5 = 7560$

(45) A person has to cover a distance of $6\,km$ in $45\,minutes$. If he covers one-half of the distance in two-third of the total time, to cover the remaining distance in the remaining time, his speed (in km/hr) must be

(A) 6   (B) 8

(C) 122   (D) 15

Solution:(Correct Answer:C)

Required speed $= \frac{6km}{\frac{45}{60}hr} = 8km/hr$

Half of journey (speed) $= \frac{3}{\frac{30}{60}} = 6km/hr$

Let speed for next half be xkm/hr

∴   Average speed $= \frac{2 \times 6 \times x}{6+x} = 8$

i.e. $\frac{12x}{6+x} = 8$

or $12x = 8 \times 6 + 8x$

or $4x = 8 \times 6$

or $x = 12km/hr$

(46) When a polynomial $f(x)$ is divided by $x - 3$ and $x + 6$, the respective remainders are 7 and 22 What is the remainder when $f(x)$ is divided by $(x-3)(x+6)$?

(A) $\frac{-5}{3}x + 12$ (B) $\frac{-7}{3}x + 14$

(C) $\frac{-5}{3}x + 16$ (D) $\frac{-7}{3}x + 12$

Solution:(Correct Answer:A)

The function $f(x)$ is not known

Here, $a = 3, b = -6$

$A = 7, B = 22$

Required remainder
$= \frac{A-B}{a-b}x + \frac{Ba - Ab}{a-b}$
$= \frac{7-22}{3-(-6)}x + \frac{22 \times 3 - 7 \times (-6)}{3-(-6)}$
$= -\frac{5}{3}x + 12$

(47) A pipe can empty a cistern in $27\,hours$. Find the time (in $hours$) in which $\frac{2}{3}$ part of the cistern will be emptied?

(A) 9   (B) 12

(C) 15   (D) 18

Solution:(Correct Answer:D)

1 part of cistern will be empty by pipe $A = 27h$A pipe can empty a cistern in 27 hours. Find the time in which $\frac{2}{3}$ part of the cistern will be emptied?
$\frac{2}{3}$ part of cistern will be empty by pipe $A = 27 \times \frac{2}{3} = 18hr$

(48) 2 pipes A and B can fill a tank separately in $60\,min$ and $70\,min$ respectively. There is a third pipe attached to the bottom of the tank to empty it. The tank is filled in $60\,min$ when all three pipes are opened. In how much time (min) the third pipe alone take to fill the tank?

(A) 110   (B) 70

(C) 120   (D) 90

Solution:(Correct Answer:B)

Part of tank will be emptied in 1 hr by 3rd pipe
$= \frac{1}{60} + \frac{1}{70} - \frac{1}{60} = \frac{1}{70}$
Required time $= 70min$

(49) A sum of ₹ 7700 is to be divided among three brothers Vikas, Vijay and Viraj in such a way that simple interest on each part at $5\%\ p.a.$ after $1, 2$ and $3\ years$, remains equal. The share (In ₹) of Vikas is more than that of Viraj by

(A) 2800   (B) 2500

(C) 3000   (D) None of these

Solution:(Correct Answer:A)

(a) Here, $T_1 = 1, T_2 = 2, T_3 = 3$

$R_1 = R_2 = R_3 = 5\%$

The shares of Vikas, Vijay and Viraj will be in the ratio
$\frac{1}{R_1 T_1} : \frac{1}{R_2 T_2} : \frac{1}{R_3 T_3} = \frac{1}{1 \times 5} : \frac{1}{2 \times 5} : \frac{1}{3 \times 5}$
$= \frac{1}{1} : \frac{1}{2} : \frac{1}{3} = 6 : 3 : 2$

Sum of proportionals $= 6 + 3 + 2 = 11$

∴ Share of Vikas $= \frac{6}{11} \times 7700 = ₹4200$

Share of Vijay $= \frac{3}{11} \times 7700 = ₹2100$

Share of Viraj $= \frac{2}{11} \times 7700 = ₹1400$

Therefore, Vikas's share is $4200 - 1400 = ₹2800$ more than that of Viraj.

(50) The sum of two numbers is 24 and their product is 143. The sum of their squares is

(A) 296   (B) 295

(C) 290   (D) 228

Solution:(Correct Answer:C)

Let the numbers be x and y

Given, $x + y = 24$

So, $x^2 + y^2 = (x+y)^2 - 2xy$
$= (24)^2 - 2 \times 143$
$= 576 - 286 = 290$

·········· **Reasoning - Section A** (MCQ) ··········

(51) Choose the correct alternative for the given relation.

Water : Convection : : Space : ?

(A) Conduction   (B) Transference

(C) Vacuum   (D) Radiation

Solution:(Correct Answer:D)

Second is the mode of transference of heat by the first.

(52) B is twice as old as A but twice younger than F.

C is half the age of A but twice the age of D.

Which two persons form the pair of oldest and youngest?

(A) F and A (B) F and D

(C) F and C (D) None of these

Solution:(Correct Answer:B)

Let $A's$ age be x. Then, $B's$ age is $2x$. B c is twice younger than F i.e. F is twice older than B. So, Ps age is $4r.C$ is half the age of A i.e. $C's$ age is I C is twice the age of D i.e. D is half the age of C i.e. $D's$ age is j so, the descending order of ages is F, B, A, C, D

Clearly, F is the of dest and D is the youngest.

(53) There are six persons A, B, C, D, E and $F.C$ is the sister of $F.B$ is the brother of $E's$ husband. D is the father of A and

grandfather of F. There are two fathers, three brothers and a mother in the group.

Who is the mother?

(A) A (B) B

(C) D **(D) E**

Solution:(Correct Answer:D)

D is father of A and grandfather of P. So, A is father of F. Thus, D and A are the two fathers. C is the sister of F. So, C is the daughter of A. Since there is only ane mother, it is evident that E is the wife of A and hence the mother of C and F. So, B is brother of A. There are three brothers. So, F is the brother of C.

Clearly, E is the mother.

(54) Choose the correct alternative for the given relation.
Pain : Ache

(A) Fever : Illness   (B) Suffering : Trouble

(C) Lazy : lethargic   (D) Damp : Arid

Solution:(Correct Answer:C)

Second is a more intensive form of the first.

(55) How many three - letter meaningful words can be formed from the word $TEAR$ beginning with $'A'$ without repeating any letter within that word?

(A) One   **(B) Three**

(C) Five   (D) Two

Solution:(Correct Answer:B)

Meaningful words are: ARE, ART, ATE

(56) Sachin is sitting to the immediate left of Meena but not next to Bharti. Parveen is sitting to the right of Bharti. If the four friends are sitting in a circle, who is sitting to the immediate right of Meena?

(A) Parveen   **(B) Bharti**

(C) Sachin   (D) Meena

Solution:(Correct Answer:B)

null

(57) Below, the word $EXPAND$ has been written in four different codes by applying four different rules which are given as four alternatives against it. A word has been written in one of these codes. Find the alternative applicable to each word and mark your answer.

$EXPAND$ (a)$FYQBOE$ (b)$EPDTCR$ (c) $GYRBPE$ (d) $CWNZLC$

$MUSHROOM\ MUSHROOM$

(A) $FYQBOE$ (B) $EPDTCR$

(C) $GYRBPE$ **(D) $CWNZLC$**

Solution:(Correct Answer:D)

Clearly in (a), each letter of the word is moved one step forward to obtain the code.

In (b), first the letters of the word are written in a reverse order and then the first, second, third. . . .. letters of the word so obtained are respectively moved one. two. three . . .... steps forward to obtain the corresponding letters of the code

In (c), the letters at odd positions in the word are moved two steps forward, while those at even positions are moved

one step forvard to obtain the corresponding letters of the code.

In (d), the letters at odd positions in the word are moved two steps backward while those at even positions are moved one step backward to obtain the corresponding letters of the code.

(58) Arrage the given words in proper sequence and choose the most approprriate sequence.

. Police

2. Punishment

3. Crime

4. Justice

5. Judgement

(A) $1, 2, 3, 4, 5$ (B) $3, 1, 2, 4, 5$

(C) $3, 1, 4, 5, 2$ (D) $5, 3, 2, 1, 4$

Solution:(Correct Answer:C)

In this words are arranged according to the order of occurrence. Here crime was done first. Interference of Police occurs as second. After the criminal was caught by the police he will be brought to the count before the Justice. After the hearing is over, judgement will be issued. Based on that punishment will be given to the criminal. Therefore crime, police, justice, judgement and punishment is the required order.

(59) Choose the correct alternative for the given relation.
Lawn : Grass

(A) Wool : Sheep   (B) Skin : Goat

(C) Fur : Pelt   (D) Rice : Farm

Solution:(Correct Answer:C)

The second grows on the first.

(60) Choose the correct alternative for the given relation.
Glucose : Carbohydrate : : Soyabean : ?

(A) Proteins   (B) Vitamins

(C) Minerals   (D) Legumes

Solution:(Correct Answer:A)

Glucose is rich in carbohydrates and soyabean is rich in proteins.

(61) In a certain language, 36492 is written as $SMILE$ and 058 is written as RUN. How is 3425 coded in that lanquage?

(A) $SEIU$ (B) $SIUE$

(C) $SRUI$ **(D) $SIEU$**

Solution:(Correct Answer:D)

Clearly, the numbers in the given figures are coded as follows:

$3\ \ \ 6\ \ \ 4\ \ \ 9\ \ \ 2\ \ \ 0\ \ \ 5\ \ \ 8$
$S\ \ \ M\ \ \ I\ \ \ L\ \ \ E\ \ \ R\ \ \ U\ \ \ N$

3 is codcd as $S, 4$ as $I, 2$ as E and 5 as U. So. 3425 is coded as $SIEU$

(62) Choose the group of letters which is different from other groups.

(A) $CFIL$ **(B) $PSVX$**

(C) $JMPS$ (D) $ORUX$

Solution:(Correct Answer:B)

In all other groups, each letter moves 3 steps forward to obtain the next letter.

(63) Choose the correct description for the given relation.
Hiss : Hoot : Trumpet

(A) They are sounds made by certain creatures

(B) They are joyous cries of children.

(C) They are sounds made by war-instruments.

(D) The terms are used in connection with under-world activities.

Solution:(Correct Answer:A)

(64) Choose the correct alternative for the given relation.
Platform : Train
(A) Aeroplane : Aerodrome   (B) Hotel : Tourist

(C) Quay : Ship   (D) Footpath : Traveller

Solution:(Correct Answer:C)

Second is the place designed for the stoppage of the first.

(65) In a certain code, $GOODNESS$ is coded as $HNPCODTR$.
How is $GREATNESS$ coded in that code?
(A) $HQFZUODTR$ **(B)** $HQFZUMFRT$

(C) $HQFZSMFRT$ (D) $FSDBSODTR$

Solution:(Correct Answer:B)

In the code the letters at odd places are one alphabet ahead and those at even places are one alphabet before the corresponding letter in the word.

(66) Find out the wrong term from given series.

$445, 221, 109, 46, 25, 11, 4$

(A) 25 **(B)** 46

(C) 109 (D) 221

Solution:(Correct Answer:B)

3 is subtracted from each number and the result divided by 2 to obtain the next number of the series.
So, 46 is wrong and must be replaced by $(109 - 3)/2$ i.e., 53.

(67) Lokesh's school bus is facing North when it reaches his school. After starting from Lokesh's house, it turns right twice and then left before reaching the school. What direction was the bus facing when it left the bus stop in front of Lokesh's house ?
(A) North   (B) South

(C) East   **(D)** West

Solution:(Correct Answer:D)

In Fig. 1, the route of the bus from Lokesh's house to the school. It is given that the bus faces North on reaching the school. Now, turning Fig. 1 90° anticlockwise, we obtain Fig. 2 which satisfies the specified conditions. It is evident from Fig. 2 that the bus faces west in front of Lokesh's house
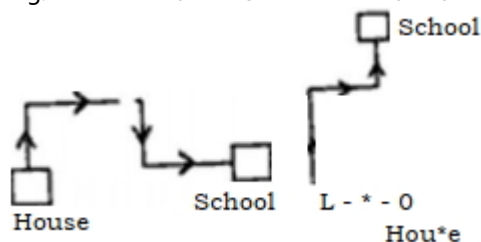
(68) Choose the correct alternative for the given relation.
Entrepreneur : Profit : : Scholar : ?
(A) Income   **(B)** Knowledge

(C) Service   (D) Business

Solution:(Correct Answer:B)

First strives to acquire the second.

(69) Showing the man receiving the prize, Saroj said, He is the brother of my uncle's daughter.' Who is the man to Saroj?
(A) Son   (B) Brother-in-law

(C) Nephew   **(D)** Cousin

Solution:(Correct Answer:D)

Brother of uncle's daughter - Uncle's son - Cousin.
So, the man is Seema's cousin.

(70) choose the correct alternative for missing term.

$AB, DEF, HIJK, ?, STUVWX$

(A) $MNOPQ$ (B) $LMNOP$

(C) $LMNO$ (D) $QRSTU$

Solution:(Correct Answer:A)

The mumber of letters in the terms goes on increasing by 1 at each step. Each term consists of letters in alphabetical order. The hist letter of each term and the first letter of the next term are alternate.

(71) Choose the odd one out from the given Words.
(A) Lima   (B) Algiers

(C) New York   (D) Tokyo

Solution:(Correct Answer:C)

All except New York are capital cities.

(72) Sudheesh walked $10\, metres$ towards south. He turned left and walked $20\, metres$ and then moved to his right. Then he turned right and walked $20\, metres$. Finally he turned right and moved a distance of $10\, metres$. How far and in which direction is he from the starting point ?
(A) $10\, m$ north   **(B)** $20\, m$ south
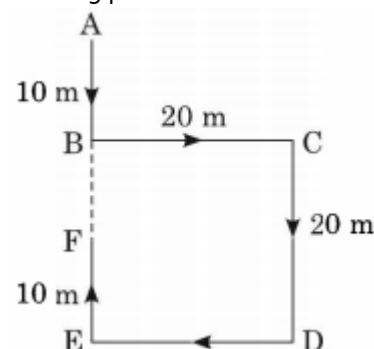
(C) $20\, m$ north   (D) $10\, m$ south

Solution:(Correct Answer:B)

The movement of Sudheesh are shown in the adjoining figure.
Distance from initial position of Sudheesh to final position
$AF = AB + BF$
$= AB + (BE - FE)$
$= 10 + (20 - 10)$
$= 20m$
F lies in the south of A.
$\therefore 20\, m$ south is the final position of Sudheesh from the starting point.

(73) Choose the odd one out from the given Words.

(A) Tarapur   (B) Kota

(C) Kalpakkam   (D) Paradeep

Solution:(Correct Answer:D)

All except Paradeep are atomic power stations, whereas Paradeep is a port.

(74) Choose the correct alternative for the given relation.
Yen : Currency

(A) Brass : Metal   (B) Flower : Fragrance

(C) Paper : Book   (D) Karnataka : State

Solution:(Correct Answer:D)

Yen is a currency. Similarly, Karnataka is a state

(75) Choose the odd one out from the given Words.

(A) Tall   (B) Huge

(C) Thin   (D) Sharp

Solution:(Correct Answer:D)

null

(76) Choose the numeral pair or group which is different from other given pairs.

(A) $56 - 8$ (B) $121 - 17$

(C) $147 - 21$ (D) $168 - 24$

Solution:(Correct Answer:B)

In all other pairs, the first number is seven times the second number.

(77) Number of letters skipped in between adjacent letters in the series are multiples of 3. Which of the following series observes this rule?

(A) $AELPZ$ (B) $GKOTZ$

(C) $LORUX$ (D) $DHLPU$

Solution:(Correct Answer:A)

null

(78) Choose the odd one out from the given Words.

(A) Tiger   (B) Cow

(C) Cheetah   (D) Leopard

Solution:(Correct Answer:B)

All except Cow belong to the cat family.

(79) A is the father of C. But C is not his son.

E is the daughter of C. F is the spouse of A.

B is the brother of C. D is the son of B.

G is the spouse of B. H is the father of G.

Who is the son of F ?

(A) B (B) C

(C) D (D) E

Solution:(Correct Answer:A)

As explained above. B is the son of A and F is the spouse of A. So, B is the son of F.

(80) Choose the correct alternative for the given relation.
Vaseline : Petrol

(A) Tea : Leaves   (B) Plant : Tree

(C) Butter : Ghee   (D) Cream : Milk

Solution:(Correct Answer:D)

First is extracted from the sccond

(81) Choose the correct alternative for the given relation.
Acoustic : Sound

(A) Mathematics : Geometry   (B) Radio : Song

(C) Pathology : Disease   (D) Communication : Phone

Solution:(Correct Answer:C)

Acoustic is the science of sounds.
Similarly pathology is the study of diseases

(82) Choose the odd one out from the given Words.

(A) Mercury   (B) Acetone

(C) Petrol   (D) Kerosene

Solution:(Correct Answer:A)

Mercury is the only metal in the group.

(83) Choose the correct alternative for the given relation.
Jama Masjid : Delhi : : Red Square : ?

(A) Hyderabad   (B) Moscow

(C) New York   (D) Lahore

Solution:(Correct Answer:B)

Jama Masjid is situated in Delhi.
Similarly, Red Square is situated in Moscow.

(84) Chef is related to restaurant in the same way druggist is related to.......

(A) medicine   (B) pharmacy

(C) store   (D) chemist

Solution:(Correct Answer:B)

The second is the working place for the first.

(85) Select the combination of numbers so that letters arranged accordingly will form a meaningful word.

$V \ A R S T E$

$1 \ 2 \ 3 \ 4 \ 5 \ 6$

(A) $2, 3, 1, 6, 4, 5$ (B) $4, 5, 2, 3, 1, 6$

(C) $6, 3, 4, 5, 2, 1$ (D) $3, 2, 4, 5, 6, 1$

Solution:(Correct Answer:B)

Clearly, the given letters, when arranged in the order $4, 5, 2, 3, 1, 6$ form the word $'STARVE'$.

(86) A is the father of C. But C is not his son.

E is the daughter of C. F is the spouse of A.

B is the brother of C. D is the son of B.

G is the spouse of B. H is the father of G.

Who is the grandmother of D ?

(A) A (B) C

(C) F (D) H

Solution:(Correct Answer:C)

D is the son of B, B is the brother of C and A is the father of C. This means that B is the father of D and A is the father of B. So, A is the grandfather of D. Now, F is the spouse of A. So, F is the grandmother of D.

(87) In a certain code $DUPLICATE$ is written as $MRVFJFVBE$. How is $CARTOUCHE$ written in that code?

(A) $UTBEPWDJF$ (B) $UTBFQFJDW$

(C) $UTBEQFJDW$ **(D) $UTBEPFJDW$**

Solution:(Correct Answer:D)

null

(88) Choose the correct alternative for the given relation.
Car : Petrol : : Television : ?

(A) Electricity   (B) Transmission

(C) Entertainment   (D) Antenna

Solution:(Correct Answer:A)

A car runs on petrol and a television works by electricity.

(89) Fill in the black space for given series with correct alternative.

$2, 3, 5, 7, 11, (\ldots), 17$

(A) 12 **(B)** 13

(C) 14 (D) 15

Solution:(Correct Answer:B)

The given series consists of prime numbers starting from 2. The prime number after 11 is 13.

So , 13 is the missing number.

(90) 1. There are five friends-Sonal, Ratheesh, Manoj, Ashok and Gireesh.

2. Sonal is shorter than Ratheesh but taller than Gireesh.

3. Manoj is the tallest.

4. Ashok is a little shorter than Ratheesh and little taller than Sonal.

Who is taller than Ashok but shorter than Manoj ?

(A) Manoj   **(B)** Ratheesh

(C) Gireesh   (D) Ashok

Solution:(Correct Answer:B)

Let the friends be denoted by the first letter of each name, namely S, R, M, A and G.

Then

$G < S < R$

$S < A < R$

Manoj is the tallest.

$G < S < A < R < M$

Ratheesh is taller than Ashok but shorter than Manoj.

(91) If the digits of the number 5726489 are arranged in ascending order, how many digits will remain at the same position

(A) None   (B) One

(C) Two   **(D)** Three

Solution:(Correct Answer:D)

5 7 2 6 4 8 9

2 4 5 6 7 8 9

(92) Choose the correct alternative for the given relation.
Ribs : Lungs

(A) Heart : Artery   (B) Fingers : Hands

(C) Tongue : Mouth   **(D)** Shell : Nut

Solution:(Correct Answer:D)

Ribs are the bones, which protect the lungs Similarly, shell protects the nut.

(93) If $PALE$ is coded as 2134, $EARTH$ is coded as 41590, how is $PEARL$ coded in that code?

(A) 29530 **(B)** 24153

(C) 25413 (D) 25430

Solution:(Correct Answer:B)

The alphabets are coded as shown :

P A L E R T H

2 1 3 4 5 9 0

So. P is code as 2. E as 4. A as 1. R as 5 and L as 3.

Thus, the code for PEARL ia 24153 .

(94) C is $A's$ fathers nephew. D is $A's$ cousin but not the brother of C. How is D related to C ?

(A) Father   **(B)** Sister

(C) Mother   (D) Aunt

Solution:(Correct Answer:B)

C is $A's$ fathers nephew means C is the son of $A's$ fathers brother i.e., C is the cousin of A. D is also $A's$ cousin. So, D must be real brother or sister of C. But D is not brother of C. So, D must be sister of C.

(95) Choose the correct alternative for the given relation.
Rain : Patter

(A) Door : Bang   (B) Birds : Flight

(C) Animal : Graze   (D) Men : Walk

Solution:(Correct Answer:A)

Patter is the sound made by falling rain.
Similarly, bang is the sound made by a closing door.

(96) In a certain code language.
(A) 'pit na som' means 'bring me water'
(B) 'najo tod' means 'water is life'
(C) 'tub od pit' means 'give me toy'
(D) 'jo lin hot' means 'life and death'
To find out the answer to the above question, which of the following statements can be dispensed with ?

(A) (A) only   **(B)** (C) only

(C) (B) or (C) only   (D) (D) only

Solution:(Correct Answer:B)

Clearly, statement C is not necessary and hence can be dispensed with.

(97) Arrage the given words in proper sequence and choose the most approprriate sequence.

1. Andhra Pradesh

2. Universe

3. Tirupathi

4. World

5. India

(A) $1, 5, 3, 2, 4$ (B) $2, 1, 3, 5, 4$

(C) $2, 1, 3, 5, 4$ (D) $5, 4, 2, 1.3$

Solution:(Correct Answer:C)

(98) Which of the following will come in place of the question mark $(?)$ in the order given below?

$AC, EH, IM, MR, ?$

(A) MI (B) IL

(C) IM **(D)** QW

Solution:(Correct Answer:D)

First letter of each term is $+4$ letters ahead of the previous term. Similarly second letter is $+5$ letters ahead of the previous term.

(99) Choose the correct alternative for the given relation. Applique : Ornament : : Impound : ?

(A) Confiscate   (B) Powder

(C) Grab   (D) Snatch

Solution:(Correct Answer:A)

The given words are synonyms of each other.

(100) How many numbers from $11\, to\, 50$ are there which are exactly divisible by 7 but not by 3 ?

(A) Two   **(B)** Four

(C) Five   (D) Six

Solution:(Correct Answer:B)

No. of numbers which are divisible by 7 from 11 to $50 = \frac{49-14}{7} + 1 = 6$. But out of these which are divisible by $3 = 21$ and 42 .

$\therefore$ Required numbers $= 14, 28, 35, 49$ $\therefore$ Required no, of numbers $= 4$

················ **Verbal - Section A** (MCQ) ··············

(101) Choose the word which best expresses the meaning of the given word. Minion

(A) Monster   **(B)** Dependent

(C) Minor   (D) Miser

Solution:(Correct Answer:B)

Minion means follower, supporter, dependent, etc.

(102) choose the appropriate word which can be substituted for the given sentence.Tending to move away from the centre or axis

(A) Centrifugal   (B) Centripetal

(C) Axiomatic   (D) Awry

Solution:(Correct Answer:A)

null

(103) Pick up the one which is most nearly the same in meaning as the word highlighted.

The leader nodded his $approbation$.

(A) understanding   (B) admiration

(C) approval   (D) appreciation

Solution:(Correct Answer:C)

Approbation means Approval or Praise.

(104) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) He is not coming tomorrow

(B) as he is having a pain in the chest

(C) and has to see a doctor.

(D) No error.

Solution:(Correct Answer:C)

'and he has to see a doctor'

(105) Find the correctly spelt word from given Words.

(A) Affectionate   (B) Afectionate

(C) Affectionaite   (D) Afectionaite

Solution:(Correct Answer:A)

Affectionate

(106) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) The mission provides

(B) able service to all

(C) the needy people in this area

(D) during last few years.

Solution:(Correct Answer:A)

The mission has provided

(107) choose the appropriate word which can be substituted for the given sentence.Having superior or intellectual interests and tastes

(A) Elite   **(B)** Highbrow

(C) Sophisticated   (D) Fastidious

Solution:(Correct Answer:B)

null

(108) Choose one of the following options that means the opposite of the given word

Major

(A) Big   (B) Strong

(C) Minor   (D) Heavy

Solution:(Correct Answer:C)

Major means main, chief, key, so its antonym is minor which means small, negligible, and unimportant.

(109) choose the appropriate word which can be substituted for the given sentence.A place where monks live as a secluded community

(A) Cathedral   (B) Diocese

(C) Convent   **(D)** Monastery

Solution:(Correct Answer:D)

null

(110) .... orbit around the Earth.$P.$ a stationary$Q.$ satellites have$R.$ communication$S.$ Some of the

(A) $SQPR$ (B) $QRPS$

(C) $PQSR$ **(D)** $SRQP$

Solution:(Correct Answer:D)

Some of the communication satellites have a stationary orbit around the Earth.

(111) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) On the busy Ring Road

(B) we witnessed a collusion

(C) between a truck and an auto.

(D) No error.

Solution:(Correct Answer:B)

we witnessed a collision

(112) Choose the alternative which best expresses the meaning of Highlighted idiom/phrase.
He never liked the idea of keeping his wife $under\ his\ thumb$ and so he let her do what she liked.

(A) Pressed down **(B)** Unduly under control

(C) Below his thumb (D) Under tyrannical conditions.

Solution:(Correct Answer:B)

(113) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) If I were him, (B) I would have taught

(C) those cheats a lesson. (D) No error.

Solution:(Correct Answer:A)

If I were he, I would have taught those cheats a lesson.

(114) Which of phrases given below each sentence should replace the phrase printed in bold type to make the grammatically correct?
Tom found the silver coin $as\ he\ cleaning$ the floor.

(A) as he cleans (B) as he cleaned

(C) as he is cleaning **(D)** while cleaning

Solution:(Correct Answer:D)

Tom found the silver coin while cleaning the floor.

(115) In the following questions choose the word which is the exact OPPOSITE of the given words.

NIGGARDLY

(A) Frugal (B) Thrifty

(C) Generous (D) Stingy

Solution:(Correct Answer:C)

null

(116) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) Such (B) rules do not

(C) apply to **(D)** you and I

Solution:(Correct Answer:D)

you and me

(117) Choose the alternative which best expresses the meaning of Highlighted idiom/phrase.
We were in hurry. The road being zigzag we had to $cut\ off\ a\ corner$ to reach in time.

(A) To cut a portion of the road **(B)** To take a short cut

(C) To go fast (D) To take an alternative route

Solution:(Correct Answer:B)

(118) choose the appropriate word which can be substituted for the given sentence.The part of government which is concerned with making of rules

(A) Court (B) Tribunal

(C) Bar **(D)** Legislature

Solution:(Correct Answer:D)

null

(119) Choose the word which best expresses the meaning of the given word. Abandon

(A) Ditch (B) Forsake

(C) Renounce **(D)** All of the above

Solution:(Correct Answer:D)

All have the same or related meaning.

(120) choose the appropriate word which can be substituted for the given sentence.A person who remains confident or hopeful about the success of something

(A) Pessimist **(B)** Optimist

(C) Creator (D) None of the above

Solution:(Correct Answer:B)

null

(121) Choose the word which best expresses the meaning of the given word. Luxuriant

(A) ample (B) abundant

(C) lavish **(D)** all of the above

Solution:(Correct Answer:D)

Luxuriant means abundant, ample, plentiful, lavish, etc.

(122) Pick up the one which is most nearly the same in meaning as the word highlighted.

Instead of putting up a united front against on common enemy, the medieval states frittered away their energy in $internecine$ warfare.

(A) baneful **(B)** mutually destructive

(C) pernicious (D) detrimental

Solution:(Correct Answer:B)

null

(123) Today with advancement$P.$ for computer science graduates$Q.$ in the field of computer science$R.$ there a are plethora of opportunities$S.$ and belief of one world

(A) $RSPQ$ (B) $RQSP$

(C) $QSRP$ (D) $SQRP$

Solution:(Correct Answer:C)

Today with advancement in the field of computer science and belief of one world there are a plethora of opportunities for computer science graduates.

(124) choose the appropriate word which can be substituted for the given sentence.A person who knows many foreign languages

(A) Linguist (B) Grammarian

(C) Polyglot (D) Bilingual

Solution:(Correct Answer:A)

(125) Some cups ...., whereas others are hot. P. touch Q. cold R. are S. to the

(A) $SPRQ$

(B) $RQSP$

(C) $QSPR$

(D) $PQRS$

Solution:(Correct Answer:B)

Some cups are cold to the touch, whereas others are hot.

(126) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) All of you will agree with me

(B) that no problem faced by our society

(C) is as grave and intractable

(D) as this problem is

Solution:(Correct Answer:B)

that no other problem faced by our country

(127) Choose the word which best expresses the meaning of the given word. Distort

(A) Dutiful

(B) Deform

(C) Harm

(D) Disturb

Solution:(Correct Answer:B)

Distort means deform, disfigure, etc.

(128) Complete the sentence by selecting the most appropriate word/phrase from the given options. The boy was cured .... typhoid.

(A) from

(B) of

(C) for

(D) through

Solution:(Correct Answer:B)

null

(129) In the following questions choose the word which is the exact OPPOSITE of the given words.

VANITY

(A) Pride

(B) Conceit

(C) Humility

(D) Ostentatious

Solution:(Correct Answer:C)

null

(130) In the following questions choose the word which is the exact OPPOSITE of the given words.

FRESH

(A) Stale

(B) Disgraceful

(C) Sluggish

(D) Faulty

Solution:(Correct Answer:A)

null

(131) choose the appropriate word which can be substituted for the given sentence. A group of worshipers assembled for the religious ceremony

(A) aggregation

(B) priests

(C) crowd

(D) congregation

Solution:(Correct Answer:D)

null

(132) Find the correctly spelt word from given Words.

(A) Proucurement

(B) Procuremant

(C) Procurement

(D) Proucuremant

Solution:(Correct Answer:C)

Procurement

(133) In the following questions choose the word which is the exact OPPOSITE of the given words.

ACQUITTED

(A) Freed

(B) Convicted

(C) Burdened

(D) Entrusted

Solution:(Correct Answer:B)

null

(134) Find the wrongly spelt word from given Words.

(A) Filled

(B) Fulfiled

(C) Expelled

(D) Skilled

Solution:(Correct Answer:B)

Fulfilled

(135) Improve the Highlighted part of the sentence given below. But in all these cases conversion from scale $have\ well-formulated.$

(A) can be well-formulated

(B) are well-formulated

(C) well-formulated

(D) No improvement

Solution:(Correct Answer:B)

(136) Which of phrases given below each sentence should replace the phrase printed in bold type to make the grammatically correct?

My hair $stood\ off\ ends$ when I saw the horrible sight.

(A) stood at ends

(B) stood on ends

(C) stood to ends

(D) stands on ends

Solution:(Correct Answer:B)

(137) Choose the alternative which best expresses the meaning of Highlighted idiom/phrase.

Companies producing goods $play\ to\ the\ gallery$ to boost their sales.

(A) advertise

(B) cater to the public taste

(C) attempt to appeal to popular taste

(D) depend upon the public for approval

Solution:(Correct Answer:C)

(138) Choose the word which best expresses the meaning of the given word.

CANTANKEROUS

(A) Rash

(B) Quarrelsome

(C) Disrespectful

(D) Noisy

Solution:(Correct Answer:B)

null

(139) Find the correctly spelt word from given Words.

(A) Hierarchy

(B) Hiererchy

(C) Hiararchy

(D) Hiererrchy

Solution:(Correct Answer:A)

Hierarchy

(140) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) You will get

(B) all the information

(C) if you read this booklet carefully.

(D) No error.

Solution:(Correct Answer:A)

you can get

(141) Which of phrases given below each sentence should replace the phrase printed in bold type to make the grammatically correct?
It *was until many years* later that yoga became popular throughout the world.

(A) was many years   (B) was till many years

(C) was not until many years   (D) was not many years later

Solution:(Correct Answer:C)

It was not until many years later that yoga became popular throughout the world.

(142) Complete the sentence by selecting the most appropriate word/phrase from the given options. Indeed, all over the world, more and more people are .... coffee.

(A) wanting   **(B)** drinking

(C) liking   (D) partaking

Solution:(Correct Answer:B)

null

(143) Choose the word which best expresses the meaning of the given word.

LAMENT
(A) Comment   **(B)** Complain

(C) Condone   (D) Console

Solution:(Correct Answer:B)

null

(144) Find the wrongly spelt word from given Words.

(A) Seperation   (B) Desertion

(C) Rejoice   (D) Serenity

Solution:(Correct Answer:A)

Separation

(145) Choose the alternative which best expresses the meaning of Highlighted idiom/phrase.
I cannot get along with a man who *plays fast and loose*.

(A) behaves in an unreliable and insincere way

(B) has a loose tongue

(C) lives a life of ease and luxury

(D) does not know how to behave himself

Solution:(Correct Answer:A)

(146) Complete the sentence by selecting the most appropriate word/phrase from the given options. If I take a state roadways bus, I'll get late, ... ?

(A) isn't it   **(B)** won't I

(C) will I   (D) is it

Solution:(Correct Answer:B)

null

(147) Find the correctly spelt word from given Words.
(A) Swelte   (B) Filpant

(C) Licentious   (D) Puessile

Solution:(Correct Answer:C)

null

(148) Find the correctly spelt word from given Words.
(A) Decompposition   (B) Decumposition

(C) Decomposetion   **(D)** Decomposition

Solution:(Correct Answer:D)

Decomposition

(149) Read each sentence to find out whether there is any grammatical error in it and select correct answer for that.

(A) The results of the recognition

(B) of this fact are seen

(C) in the gradual improvement

(D) of the diet of the poor.

Solution:(Correct Answer:D)

in the diet of the poor

(150) Find the correctly spelt word from given Words.
(A) Accomplish   (B) Acomplush

(C) Ackmplesh   (D) Accompalish

Solution:(Correct Answer:A)