Quiz Programme — III B.Sc. 19/12/18

Quiz Programme conducted to B.Sc. (M.P.Cs) Students on Analytical Skills.

Students are divided into two groups.

Group A	Group B
Nityapriya Reddy	Mahendra
Venkatesh	Rambabu
Praveen	Nagaraj
Arabian	Venkatramana

(1) Ravi is fourteenth from the right end in a row of forty boys what is his position from left end

(a) 24 (b) 25 (c) 26 (d) 27 (e) none

Ans. (d) 27

(2) If the Seventh day of the month, ~~day~~, ~~date~~ and time basing on the ~~sequence~~ of the sentences relating to them. is three days earlier than Friday, what day will it be the 19th day of the month

(a) Sunday (b) Monday (c) Wednesday (d) Saturday

Ans (a) Sunday

(3) How many 3's are there in the following sequence which are neither preceded by 6 nor immediately followed by 9?

9 3 6 6 3 9 5 9 3 7 8 9 1 6 3 9 6 3

A. One B. Two C. Three D. four E. None.

Ans. (B) Two.

(4) Find out the two signs to be interchanged making following equation Correct:

$5 + 3 \times 8 - 12 \div 4 = 3$

A) + and − (B) − and ÷ (C) + and ×

D) + and ÷

Ans (B) − and ÷

(5) How many times in a day the hands of a clock are straight?

A) 22 (b) 24 (C) 44 (d) 48

Ans. C (44)

(6) How many days are there from 2nd Jan. 1995 to 15 March, 1995?

Ans. 73

Exp: Jan Feb March $30 + 28 + 15 = 73$ days

(7) The first republic day of India was Celebrated on 26th January, 1950. It was

Ans. Thursday.

(8) AC, FH, KM, PR, ?

(A) UW (B) VW (C) UX (D) TV

Ans (A) UW.

(9) B, E, D, F, ?, H, J, ?, L

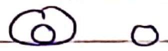
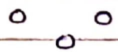
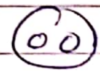
(A) I, M (B) M, I (C) I, N (D) J, M

Ans.

(10) Choose the alternative which is closely resembles the water-image of the given combination. QUARREL

Ans. (1) O∩∀ꓤꓤƎ⅃

(11) Which of the following diagrams indicates the best relation between Examinations, Questions and Practice?

(A)  (B)  (C)  (D) 

Ans. (C) 

(12) The Value of $[(10)^{150} \div (10)^{146}]$

Ans $(10)^{150} \div (10)^{146} = \frac{(10)^{150}}{(10)^{146}} = 10^{150-146}$

$= 10^4 = 10000$

(13) $\left(\frac{x^b}{x^c}\right)^{(b+c-a)} \cdot \left(\frac{x^c}{x^a}\right)^{(c+a-b)} \cdot \left(\frac{x^a}{x^b}\right)^{(a+b-c)} = ?$

(A) x^{abc} (B) 1 (C) $x^{ab+bc+ca}$ (D) x^{a+b+c}

Ans (B) (1)

(14) If a Number N is increased by P% then the number after decrease is

Ans: $N \times \left[\frac{100-P}{100}\right]$ %

(15) Find the Simple Interest on Rs 30,000/- at $16\frac{2}{3}$ % per annum for 9 months

Sol. $P = Rs.\ 30,000$, $R = \frac{50}{3}$ % p.a and

$T = \frac{9}{12}$ years $= \frac{3}{4}$ years

$\therefore S.I = (P \times R \times T)/100$

$= Rs.\ (30,000 \times (50/3) \times (3/4) \times (1/100))$

$= Rs.\ 3750.$

(16) 16 men can do a piece work in ten days. How many men are needed to complete the work in 40 days?

Sol $M_1 = 16,\ D_1 = 10,\ D_2 = 40,\ M_2 = M_2$

$M_1 D_1 = M_2 D_2$

$M_2 = 16 \times \frac{10}{40} = 4$ men.

(17) In how many ways can the letters of the word 'LEADER' be arranged?

Sol - 1L, 2E, 1A, 1D, and 1R

$= 6!/(1!)(2!)(1!)(1!)(2!)$

$= 360$

(18) A die is thrown. What is the Probability of getting a 8?

Ans: Probability $= \frac{1}{6}$.

(19) If $P(A) = \frac{1}{4}$, $P(B) = \frac{1}{2}$, $P(A \cup B) = \frac{5}{8}$ then $P(A \cap B) = ?$

$P(A \cup B) = P(A) + P(B) - P(A \cap B)$

$P(A \cap B) = P(A) + P(B) - P(A \cup B)$

$= \frac{1}{4} + \frac{1}{2} - \frac{5}{8} = \frac{1}{8}$

(20) The surface area of a cube is 600 cm². The length of its diagonal is,

Ans: $10\sqrt{3}$ cm.

(21) If the length of diagonal of a cube is $4\sqrt{3}$ cm, then its surface area is

Ans: 96.

Sol: $\sqrt{3}a = 4\sqrt{3}$ so $a = 4$

Surface area $= 6a^2 = 96$ Sq-cm.

22 The volume of a cube is 2744 cu cm. its surface area is

Ans: 1176 cm².

Sol: $a^3 = 2744$, so $a = 14$

Surface area $= 6a^2 = 1176$

(23) 7, 10, 8, 11, 9, 12, ?

Ans: 10

(24) 5, 9, 17, 29, 45, ?

Ans 65

The pattern is +4, +8, +12, +16, ---

(25) The sum of first 25 natural numbers is

Ans 1035.

The winner group is A.

Signature of the Student:

K. Nitya pooja Reddy
R. Prathap
M. Venkatesh
M. Nagaraya.
S. Arabjan
Y. Rambabu
M. Venkataramana

Quiz Programme 21/12/2019

(1) Missing number in the Series ?
10, 18, 28, 40, 54, 70?
(a) 85 (b) 86 (c) 87 (d) ~~88~~

Ans. (d) $10 \xrightarrow{+8} 18 \xrightarrow{+10} 28 \xrightarrow{+12} 40 \xrightarrow{+14} 56 \xrightarrow{+16} 70 \xrightarrow{+18} 88$.

(2) Missing term in the Series is.
3F, 6G, 11I, 18L, ?
(a) 210 (b) 25 N (c) 21 P (d) 270

Sol (d) Numbers : $3 \xrightarrow{+3} 6 \xrightarrow{+5} 11 \xrightarrow{+7} 18 \xrightarrow{+9} 27$.
Letters : $F \xrightarrow{+1} G \xrightarrow{+2} I \xrightarrow{+3} L \xrightarrow{+4} (P)$

(3) Which of fractions is greater than $\frac{3}{4}$ and less than $\frac{5}{6}$?
(a) $\frac{1}{2}$ (b) $\frac{2}{3}$ (c) $\frac{4}{5}$ (d) $\frac{9}{10}$

Ans (c), $\frac{3}{4} = 0.75$, $\frac{5}{6} = 0.833$, $\frac{1}{2} = 0.5$, $\frac{2}{3} = 0.66$,
$\frac{4}{5} = 0.8$, $\frac{9}{10} = 0.9$

Clearly 0.8 lies between 0.75 and 0.833
$\therefore \frac{4}{5}$ lies between $\frac{3}{4}$ and $\frac{5}{6}$.

(4) If the sum and Product of two numbers is 12 and 35, respectively, sum of its reciprocal is
(a) $\frac{12}{35}$ (b) $\frac{1}{35}$ (c) $\frac{35}{8}$ (d) $\frac{7}{2}$

Ans (a), Let the two numbers be x and y.
Then $x + y = 12$ &
$xy = 35$

$\therefore \frac{x+y}{xy} = \frac{12}{35} \Rightarrow \left(\frac{1}{y} + \frac{1}{x}\right) = \frac{12}{35}$

$\therefore$ Sum of the reciprocals of given numbers $= \frac{12}{35}$.

(5) A girl introduced a boy as the son of the daughter of the father of her uncle. The boy is girl's

(a) Uncle (b) Nephew (c) Cousin (d) Son

Sol. None of these.
Father of uncle → Grand father
Daughter of grand father → Uncle's sister or mother
Son of mother → Brother.

(6) If the average of the numbers 57, 68.6, 57.4, 55.2 and x is 61.6 is 53. find the value of x.

(a) 34.2 (b) 26.4 (c) 51 (d) 24.2

Sol. (d)

$$\text{Average} = \frac{57 + 68.6 + 57.4 + 55.2 + x + 61.6}{6}$$

$$\Rightarrow 53 = \frac{293.8 + x}{6}$$

$$\Rightarrow 293.8 + x = 318$$

$$\Rightarrow x = 318 - 293.8 = 26.2$$

(7) If 25% of a = 35% of b, then a : b is
(a) 7 : 5 (b) 5 : 7 (c) 3 : 4 (d) 4 : 3

Sol. (a), $25\%\ a = 35\%\ b$

$$\Rightarrow \frac{25}{100} \times a = \frac{35}{100} \times b$$

$$\Rightarrow 25a = 35b \Rightarrow \frac{a}{b} = \frac{35}{25} = \frac{7}{5}$$

$\therefore a : b = 7 : 5$

(8) Which of the following is not a leap year?
(a) 2000 (b) 2100 (c) 2020 (d) 2012

Sol: '2100' is not a leap year, because it is a century year not divisible by 400.

(9) What is the angle between the time hands at 2120 am?

(a) 100° (b) 50° (c) 10° (d) 70°

Sol: Angle between the time hands.

$$\theta = |30h - \frac{11}{2}m|$$

$$= |30(2) - \frac{11}{2}(20)| = |60 - 110| = |-50| = 50°$$

(10) How many times do the hands of a clock coincide in a day?

(a) 20 (b) 21 (c) 22 (d) 24

Sol: (c)

The hands of a clock coincides 11 times in every 12 hours. They coincide only once, i.e. at 12 o' clock. The hands coincide 22 times in a day.

(11) 50% of (75% of Rs. 300) is _____

(a) 112.5 (b) 122 (c) 123 (d) 113

Sol: (a) 50% of (75% of Rs. 300) = 50% of $\left(\frac{75}{100} \times 300\right)$

$= 50\%$ of $225 = \frac{50}{100} \times 225$

$= \frac{225}{2} = 112.5$

(12) The average age of a man and his son is 28 years. The ratio of their ages is 3:1 resp. What is the man's age?

(a) 30 years (b) 32 years. (c) 42 years (d) 52 y

Sol: Total age of man's and his son's age =

$= 28 \times 2 = 56$ years.

Sol: '2100' is not a leap year, because it is a century year not divisible by 400.

(9) What is the angle between the time hands at 2:20 am?
(a) 100° (b) 50° (c) 10° (d) 70°

Sol: Angle between the time hands

$$\theta = |30h - \frac{11}{2}m|$$

$$= |30(2) - \frac{11}{2}(20)| = |60 - 110| = |-50| = 50^\circ$$

(10) How many times do the hands of a clock coincide in a day?
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$= 50\% \text{ of } 225 = \frac{50}{100} \times 225$

$= \frac{225}{2} = 112.5$

(12) The average age of a man and his son is 28 years. The ratio of their ages is 3:1 resp. What is the man's age?
(a) 30 years (b) 32 years (c) 42 years (d) 52 y

Sol: Total age of man's and his son's age = $28 \times 2 = 56$ years.

The Ratio of their ages = 3:1

∴ Manly age = $\left(\frac{3}{4}\right) \times 56 = 3 \times 14 = 42$ years.

(13) Find the ratio of the Profit of Ram : Shyam : Sita invested their capital in the ratio 3:5:9, resp. for 2:3:1 time.

(a) 2:5:3 (b) 3:2:5 (c) 5:2:3 (d) 7:5:3

Sol: (a) Let the capital of Ram, Shyam and Sita be $3x$, $5x$, $9x$ resp. by Ram, Shyam and Sita invest capital $2y$, $3y$, and y for months.

Then Profit of Ram, Shyam and Sita
$= 3x \times 2y : 5x \times 3y : 9x \times y$
$= 6 : 15 : 9$
$= 2 : 5 : 3$

(14) T, R, P, N, L, ?, ?

(a) Q, Q (b) T, H (c) K, H (d) K, T

Ans (b) T → R → P → N → L → J → H

(15) Tea : Cup : tobacco : ?

(a) Leaves (b) Hookah (c) Toxin (d) Cheroot

Ans (d) The first one is to be in the second one.

(16) Find the odd man out, 3, 5, 11, 14, 17, 21

(a) 21 (b) 17, (c) 14 (d) 3

Ans C, Each of the numbers except 14, is an odd number.

(17) To day is Monday, after 61 days it will be
(a) Sunday (b) Saturday (c) Friday
(d) Wednesday

Ans (b),
Each day of the week is repeated after 7 days.
So, after 63 days, it will be Monday.
∴ After 61 days, it will be Saturday.

(18) Which of the following is equal to 3.14×10^6 ?
(a) 314 (b) 3140 (c) 3140000 (d) none.

Ans (c) $3.14 \times 10^6 = 3.14 \times 1000000$
$= \frac{314}{100} \times 1000000 = 3140000.$

(19) $666 \div 6 \div 3 =$
(a) 37 (b) 33 (c) 30 (d) 35

Ans (a)
$666 = \frac{1}{6} \times \frac{1}{3} = \frac{666}{18} = 37$

(20) The total of A and B is 12 years more than the total age B and C, C is how many years younger than A?
(a) 4 years (b) 6 years (c) 8 years.
(d) 12 years.

Ans (d), $(A+B) - (B+C) = 12$
$\Rightarrow A - C = 12$.

(21) 525, 813, 714 - - -
(a) 353 (b) 329 (c) 606 (d) 520

Ans (c), Sum of the digits of the number is 12.
$606 = 6+0+6 = 12$

(22) Find out the odd one
(a) 75 (b) 45 (c) 25 (d) 15
Sol (c), It is a Perfect square

(23) Petrol : car :: Lead : ?
(a) Pen (b) Pencil (c) Metal (d) Ink
Sol (b), Petrol used in car, lly lead used in Pencil.

(24) Circle : Arc :: line : ?
(a) Dot (b) Angle (c) line (d) Ray
Sol (d) Arc is a part of circle.
lly Ray is a part of line.

(25) The sum of first 30 odd numbers is ?
(a) 300 (b) 900 (c) 930 (d) 225
Sol (b), sum of first n' odd numbers $= n^2$
sum of first 30 odd numbers $= (30)^2$
$= 900$.

Quiz Programme is conducted among all B-Sc. MPC Students. All Students are divided into three Groups.

Group A	Group B	Group C
S. Alam	Lalitha	S. Shameem
S. Md. Ghouse	Haripriya	Suresh
Reddy Sekhar	Nagma	D. Chennakesava
S. Salem	G. Supriya	A. Raja Kumar
Akhil	T. Dhruthi	Prasad
Bavadam	Rajesh	Anwar
Score (08)	Score (05)	Score (12)

Winning Team is ~~Team C~~
Group-C

Signature of the Students

M. LaLitha	I st mpcs	M. LaLitha
G. Haripriya	2nd MPCS	G. Haripriya
S. Najma	2nd MPCS	S. Najma
G. Supriya	I mpcs	G. Supriya
T. Druthi	I MPCS	T. Druthi
G. VenkataRaiesh	I. M.P.C.S	G. VenkataRaiesh
R.V.S. Saikalyan	I (M.P.C.S)	R. Vas Sai kalyan.
K. Prasad naidu	I (M.P.C)	K. Prasad naidu
M. Raj Kumar Reddy	2nd (M.P.C)	M. Raj
K. Venkata Prasad	1st (M.P.C.S)	K. V Prasad.
S. Muhammad Huzaifa	2nd (M.P.Cs)	S. Muhammad Huzaifa
D. Chenna Kesava	2nd (MPCS)	D. Chenna
K. Suresh kumar	2nd (MPCS)	K. Suresh
S. Shameem Ahamed	2nd (MPCS)	S. Shameem Ahamed
S. Bavaddin	I st [MPCS]	S. Bavaddin
S. Akhil Ahammad	1st [MPCS]	S. Akhil Ahammad
M. saleem	III rd B.Sc (M.P.C)	M. saleem
S.M. Alam	III rd B.S.C (MPC)	S.M Alam
S. Mahammad Ghouse	III rd B.Sc [M.P.C]	S. Ghouse
D. Reddisekhar	III rd B.Sc (M.P.C.S)	D. Reddisekhar

P. Gayathri
LECTURER
Dept. of Mathematics
Govt. Degree College
RAYACHOTY.

Quiz Programme 21/12/2020

Quiz competitions is conducted among all B.Sc. Students the eve of Birth anniversary of Sri. Srinivasa Ramanujan "Mathematics Day" to be celebrated on 22/12/2020.

All Students are divided into two Groups.

Group A

1. G. Haripriya
2. D. Venkata Sivamma
3. M. Raj Kumar Reddy
4. M. Suresh Kumar
5. S. Huzaifa
6. D. Chenna Kesava
7. R. Sri Hari

Group B

1. T. Druthi
2. G. Supriya
3. M. Lalitha
4. ARSA
5. Akhil Ahamed
6. Bavaddin
7. Prasad Reddy

1. 128, 61e, 32, ... ?
(a). 33 (b). 35 (c). 45 (d) 16.

A. 16 (d).

2. The next term in the series 2, 5, 10, 17, 26, 37, ?
(a). 50 (b). 57 (c). 62 (d). 72.

A. A (50).

3. The next term in the series : BDE, D5FH, F1GK, H27N, ... ? is
(a). J56D (b). D62Q (c). Q62J (d). J58Q.

Ans. J58Q (d).

4. A party was held in which a grandmother, father, mother, four sons, their wives and one sone and two daughters to each of the sons were present. The number of females present in the party is
(A). 18 (b). 14 (c). 18 (d). 24.

Ans :- 14 (B).

5. P and Q are brothers. R and S are sisters. The Son of P is brother of S. Q is related to R as
(A). Son (b). Brother (c). uncle (d). father.

Ans :-
(C) Uncle

6. In certain code, SELECTION is coded as QCJCARGMH. The code of AMERICANS will
A). YKCPGAYHQ (b). BNFSJDBMR (c). QHYAGPCKY
(d). YQKHCYPAG.

Ans :- A (YKCPGAYHQ).

7. A is sister of B. F is daughter of Q. C is mother of B. D is father of C. E is mother of D. A is related to D as
(A). Grand daughter (B). Daughter.
(C). Daughter-in-law (d). Sister.

Ans :- (A). Grand daughter.

8. In the series AB, EDC, FGHI, . . . ?, OPQRST, the missing term is
(A). JKLMN (B). JMKNL (C). NMLKJ (d). NMKLJ.

Ans :- C.(NMLKJ)

9. Who is the first mathematician to be elected as the fellow of the Royal society ?
(A). Bhaskaracharya (B). Aryabhatt
(C). Shripati (d). Srinivasa Ramanujan.

Ans :-
D. (Srinivasa Ramanujan).

10. Who is the father of mathematics ?
(A). Srinivasa Ramanujan (B). Dr. sophic carr
(C). Aryabhatt (d). Archimedes.

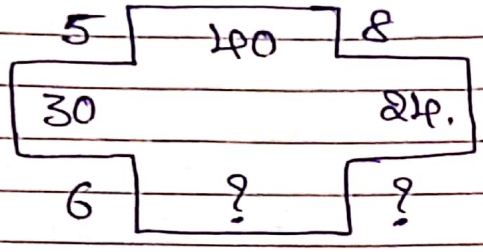
Ans :-
D(Archimedes).

11. $2 \times 2 = 8$
$3 \times 3 = 18$
$5 \times 5 = 50$
$6 \times 6 = 72$
$10 \times 10 = ?$

Ans :- B = 200
(A) 100 (B) 200 (C) 300 (D) 400

12.

12.



(A). 3, 15 (B). 4, 24. (C). 3, 18. (D). 2, 12.

Ans :- (C) 3, 18.

13. Today is monday, after 61 days, it will be
(A). Tuesday (B). wednesday
(C). Thursday (D). saturday.

Ans :- (D). Saturday.
⇒ Each day of the week is repeated after 7 days. so, after 63 days it will be on monday
so, 61 days.

14. If 3rd december, 1990 is sunday, what day is 3rd january 1991?

(A). Sunday (B). Monday (C). Tuesday (d). Wednesday

Ans :- d(Wednesday).
Clearly 3rd, 10th 17, 24, 31 december 1990 Sunday. so, 1st january 1991 is monday and 3rd January 1991 wednesday.

15. What is the number of odd days in a leap year?
(A). 1 (b). 2 (C). 3 (d). 4.

Ans :- A leap year has 366 days. during 366/7 it gives 2 as reminder.
:- odd days in 366 days is '2'.

16. When did the first printed book on mathematic appear?

(A). 14?8 (B). 1478 (C). 1778 (d). 1578.

Ans :- B(1478)

17. Which of the following instrument used by aryabhatt?
(A). chakra yantra (B). Bhangra yantra.
(c). Dhany yantra (d). Ghati yantra.

Ans :- A (Chakra yantra).

18. Zero was invented 1st by what country?
(A). Arab (B). Japan (C). India (D). China.

Ans :-
(C). china.

19. Value of 'pie' is described in which book?
(A). Leelavathi (B). Sidhant siromani
(C). Ganitadhyay (D). Goladhyay

Ans :- (A). Leelavathi.

20. Where did the magic square originated?
(A). India (B). china (C). USA (d). German.

Ans :- (B). China. //.

Group A is got 11 marks.
B : got 8 marks.

The winner Group is Group A

Signature of the Students.

K. Suresh Kumar
R. Srihari
Shaheem.
M. Raj
Mujafa.
D.
D. Sivamma
Venu Gopal
G. Hari Priya
G. Supriya
S. Bavaddin
T. Druthi
G. APSa
S. Akhil Ahammad
M. Lalitha
Sai Kalyan
K. V. Prasad
V. V. Prasad.
Ashok
Ganesh
K. Mounika Reddy