**Math (18 x 2 = 36) ( Entrance Exam 2074)**

**1 olb n(A)=40, n(B)=60 / n()=80 5 eg] n() sf] dfg slt xf]nf ?**

**(A B) ?}**

1. 100 b) 20 C) 80 d) 40

**2. ;ljg / s[i0f b'a}n] s'g} sfd !) lbgdf / ;ljg PSn}n] pQm sfd !\* lbgdf g{ ;S5 eg] s[i0f PSn}n] Ps lbgdf ug{ ;'S5 eg] s[i0f PSn}n] Ps lbgdf slt srfd ug{ ;S5 <**

**(Sabin and Krishna can do a piece of work in 10 days and sabin alone can do it in 18 days. How many work can Krishnba do in one day ?)**

(a)15 Work b) 1/15 Work c) 2/45 Work d) 221/2 Work

**3. ? @\*% df Pp6f sldh a]Rbf % % gf]S;fg eP5 e3g] s|o d"No slt xf]nf <**

**(5% is lost when a shirt was sold for Rs 285 then its const price is ……….)**

1. Rs 100 Rs.300 Rs.95 d) Rs.285

**$= ? !,))),))) d'No kg{] d];lgsf] d"No ! aif{df @% k|ltzt aflif{sn] x|f; x'G5 eg] x|f; kl5sf] d"No slt xf]nf <**

**(A Machine of Rs.100,000 is depreciated in a year by 25% p.s, What is the price after depreciation ?**

1. Rs. 85,500 b) Rs 85,000 c) Rs. 75,000 d) Rs.57,000

**%= lqe'hfsf/ lk|Hdsf] prfO{ 3  cfotg eP lk|Hdsf] lqe'hfsf/ cfwf/sf] If]qkmn slt xf]nf <**

(The height and volume of the triangular prism is 12√3cm and 225 cm3 respectively What is the triangular base area of the prism?

1. 25cm2 b) 15cm2 c) 12cm2 d) 10.83cm2

**^=juf{sf/ cfwf/sf] Pp6f e'hsf] nDafO{  / 58s] prfO{ eP lk/fld8sf] 58\s] ;txsf] If]qkmn slt x'G5 <**

(A square based pyramid having one side of 12 cm and if its slant height is 13 cm them its lateral surface area is …………?

1. 156cm2 b) 132cm2 c) 231cm2 d) 312cm2

**&= - a/fa/ slt xf]nf < (Which one is equal to -**

1. b) c) d)

**\*=jLhLo leGg + sf] ;/n ?k s] x'G5 <**

(the simplest of algebraic +

1. b) c) d)

**(=obL eP x sf] dfg slt xf]nf < ( then the calue of x is ………**

1. 0 b) 2 c) -3/2 d) 1

**!)=obL / (p+3) sf] d=;= slt xf]nf < ( What is the HCF of (p+3) ?**

1. 1 b) o c) p±2 d) (p-1) (p±2) (p±3)

**!!=obL eP y sf] dfg slt xf]nf <**

**( if then the value of y is……..……?**

1. 2 b) 4 c) 12 d) 5

**!@= tLg aif{ cl3 jfj' / p;sf] 5f]/fsfr] pd]/sf] of]ukmn $\* aif{ lyof] . ltgLx?sf] clxn]sf] pd]/sf] cGt/ #) aif{ 5 eg] jfj'sf] pd]/ slt xf]nfr <**

**(Three years ago the sum of the ages of father and his son was 48 years. The difference of their ages now is 30 years then the age of father is ……………..?**

1. 30 b) 40 c) 32 d) 42

**!#= gbLsf] Ps lsgf/fdf 20m ld6/ cUnf] 6fj/ 5 / glb sf] csf{] lsgf/fjf6 6fj/sf] 6'Kkf]df x]bf{ pGgtf+; sf]0f 300 /x]5 eg] jfj'sf] pd]/ slt xf]nf <**

(A tower on the bank of a river is of 20 m. high the angle of elevation of the top of the tower from the opposite bank is 300 what is the breadth of the river?

1. 34.64m b) 30m c) 35m d) 11.55m

**!$= /fd|/L lkml6Psf] %@ kQL ePsf] tf;sf] Ps Kofs]6af6 gx]/Ls/g Pp6f kQL lgsfNbf jfbzfx kg{] ;DefJotf slt x'G5 <**

**(A card is drawn randomly from a well shuffled pack 0 52 cards what is the probability of getting a king card ? )**

1. 1 b) c) d)

**!%= juL{s[t tYofs+df obL L=20,N=25,C.F=2 , F=5 / I=10 eP klxnf] rt'yf{D; (Q1) sf] dfg slt xf]nf <**

**in a grouped data if L=20,N=25,C.F=2 , F=5 and I=10 then what is the value of first quartile Q1?**

1. 28.5 b) 25.75 c) 30.25 d) 40.5

**!^= lrqdf sf] If]qkmn !\* cm2 eP rt'e"{h ABCD sf] If]qkn slt xf]nf <**

**( in the given figure, =18 cm2 then what is the area of quadrilateral ABCD ?**

1. 9 cm2  b) 36 cm2

D

A

B

C

E

c) 18 cm2  d) 20 cm2

**!&= a[tdf 350 eP sf] dfg slt xf]nf <**

**(in a circle =350 then the measure of is ………?**

D

A

B

C

1. 500  b) 700

c) 17.50  d) 350

**!\*= df PQ=4 cm, QR=5 cm/ eP sf] If]qkmn slt xf]nf <**

(**in PQ=cm, , QR=5cm and <PQR=600 then the area of is ……?**

Q

4cm

5cm

1. 5√3 cm2
2. 30 cm2

R

P

1. 15 cm2

R

P

1. 10√3 cm2