

BSTET (Class 9-10)

**Previous Year Paper
(Math)**

31 Oct, 2025 Shift 1



बिहार विद्यालय परीक्षा समिति
BIHAR SCHOOL EXAMINATION BOARD

Exam Name	STET Exam 2025
Paper	Paper I
Roll No	
Participant Name	
Test Center Name	
Test Date	31/10/2025
Test Time	9:00 AM - 11:30 AM

Section : Part I Math(110)

Q.1 The union of rational and irrational numbers is:

- Ans ☒ A. Complex Numbers
☒ B. Real Numbers
☒ C. Natural numbers
☒ D. Whole numbers

Question Type : MCQ
Question ID : 4335765013
Option 1 ID : 43357620049
Option 2 ID : 43357620050
Option 3 ID : 43357620051
Option 4 ID : 43357620052
Status : Answered
Chosen Option : B

Q.2 The maximum number of roots for a quadratic equation is equal to

- Ans ☒ A. 1
☒ B. 2
☒ C. 3
☒ D. 4

Question Type : MCQ
Question ID : 4335765093
Option 1 ID : 43357620369
Option 2 ID : 43357620370
Option 3 ID : 43357620371
Option 4 ID : 43357620372
Status : Answered
Chosen Option : B

The area of a rhombus is 480 cm^2 and the length of one of its diagonals is 20 cm. The length of each side of the rhombus is

- Ans ☒ A. 24 cm
☒ B. 30 cm
☒ C. 26 cm
☒ D. 28 cm

Question Type : MCQ
Question ID : 4335765302
Option 1 ID : 43357621205
Option 2 ID : 43357621206
Option 3 ID : 43357621207
Option 4 ID : 43357621208
Status : Answered
Chosen Option : C

Q.4 Let x be a real number such that $x + \frac{1}{x} = \sqrt{5}$. What is the value of $x^2 + \frac{1}{x^2}$?

- Ans ☒ A. 5 .
☒ B. 3
☒ C. 1
☒ D. Cannot be determined

Question Type : MCQ
Question ID : 4335765008
Option 1 ID : 43357620029
Option 2 ID : 43357620030
Option 3 ID : 43357620031
Option 4 ID : 43357620032
Status : Answered
Chosen Option : B

Q.5 A hollow cube of internal edge 22 cm is filled with spherical marbles of diameter 0.5 cm and it is assumed that $\frac{1}{8}$ space of the cube remains unfilled. Then the number of marbles that the cube can accommodate is

- Ans ☒ A. 142296
☒ B. 142396
☒ C. 142496
☒ D. 142596

Question Type : MCQ
Question ID : 4335765349
Option 1 ID : 43357621393
Option 2 ID : 43357621394
Option 3 ID : 43357621395
Option 4 ID : 43357621396
Status : Answered
Chosen Option : A

__dimensions.

- Ans ☒ A. One
☒ B. Two
☒ C. Three
☒ D. Zero

Question Type : **MCQ**
Question ID : **4335765239**
Option 1 ID : **43357620953**
Option 2 ID : **43357620954**
Option 3 ID : **43357620955**
Option 4 ID : **43357620956**
Status : **Answered**
Chosen Option : **C**

Q.7 The angles of cyclic quadrilaterals ABCD are: $A = (6x+10)^\circ$, $B=(5x)^\circ$, $C = (x+y)^\circ$ and $D=(3y-10)^\circ$. The value of x and y is:

- Ans ☒ A. $x=20^\circ$ and $y = 10^\circ$
☒ B. $x=20^\circ$ and $y = 30^\circ$
☒ C. $x=44^\circ$ and $y=15^\circ$
☒ D. $x=15^\circ$ and $y=15^\circ$

Question Type : **MCQ**
Question ID : **4335765031**
Option 1 ID : **43357620121**
Option 2 ID : **43357620122**
Option 3 ID : **43357620123**
Option 4 ID : **43357620124**
Status : **Answered**
Chosen Option : **B**

Q.8 The empirical relationship between the three measures of central tendency is

- Ans ☒ A. $3 \text{ Median} = \text{Mode} + 2 \text{ Mean}$
☒ B. $2 \text{ Median} = \text{Mode} + 2 \text{ Mean}$
☒ C. $3 \text{ Median} = \text{Mode} + \text{Mean}$
☒ D. $3 \text{ Median} = \text{Mode} - 2 \text{ Mean}$

Question Type : **MCQ**
Question ID : **4335765388**
Option 1 ID : **43357621549**
Option 2 ID : **43357621550**
Option 3 ID : **43357621551**
Option 4 ID : **43357621552**
Status : **Answered**
Chosen Option : **A**

variables taken together are called

- Ans ☒ A. linear equations
☒ B. quadratic equations
☒ C. simultaneous equations
☒ D. None of these

Question Type : MCQ
Question ID : 4335765050
Option 1 ID : 43357620197
Option 2 ID : 43357620198
Option 3 ID : 43357620199
Option 4 ID : 43357620200
Status : Answered
Chosen Option : C

Q.10 If a cone is cut parallel to the base of it by a plane in two parts, then the shape of the top of the cone will be a:

- Ans ☒ A. Sphere
☒ B. Cube
☒ C. Cone itself
☒ D. Cylinder

Question Type : MCQ
Question ID : 4335765339
Option 1 ID : 43357621353
Option 2 ID : 43357621354
Option 3 ID : 43357621355
Option 4 ID : 43357621356
Status : Answered
Chosen Option : C

Q.11 It is given that $\Delta ABC \sim \Delta PQR$, with $BC/QR = 1/4$ then, $ar(\Delta PRQ)/ar(ABC)$ is equal to

- Ans ☒ A. 16
☒ B. 4
☒ C. 1/4
☒ D. 1/16

Question Type : MCQ
Question ID : 4335765233
Option 1 ID : 43357620929
Option 2 ID : 43357620930
Option 3 ID : 43357620931
Option 4 ID : 43357620932
Status : Answered
Chosen Option : A

of equal volume have their heights in the ratio 1 : 2

. The ratio of their radii is

- Ans ☒ A. 1 : $\sqrt{2}$
☒ B. $\sqrt{2}$: 1
☒ C. 1 : 2
☒ D. 1 : 4

Question Type : MCQ
Question ID : 4335765368
Option 1 ID : 43357621469
Option 2 ID : 43357621470
Option 3 ID : 43357621471
Option 4 ID : 43357621472
Status : Answered
Chosen Option : B

Q.13 If $\cos(\alpha + \beta) = 0$, then $\sin(\alpha - \beta)$ can be reduced to

- Ans ☒ A. $\cos \beta$
☒ B. $\cos 2\beta$
☒ C. $\sin \alpha$
☒ D. $\sin 2\alpha$

Question Type : MCQ
Question ID : 4335765446
Option 1 ID : 43357621781
Option 2 ID : 43357621782
Option 3 ID : 43357621783
Option 4 ID : 43357621784
Status : Answered
Chosen Option : B

Q.14 The value of $\sec^2\theta - \tan^2\theta$ is-

- Ans ☒ A. 0
☒ B. 1
☒ C. $\cot 2\theta$
☒ D. $\sin 2\theta$

Question Type : MCQ
Question ID : 4335765466
Option 1 ID : 43357621861
Option 2 ID : 43357621862
Option 3 ID : 43357621863
Option 4 ID : 43357621864
Status : Answered
Chosen Option : B

measures of central tendency is influenced by extreme values?

- Ans ☒ A. Mean
☐ B. Median
☐ C. Mode
☐ D. None of these

Question Type : MCQ
Question ID : 4335765413
Option 1 ID : 43357621649
Option 2 ID : 43357621650
Option 3 ID : 43357621651
Option 4 ID : 43357621652
Status : Answered
Chosen Option : A

Q.16 The ratio in which the line segment joining the points P(-3, 10) and Q(6, -8) is divided by O(-1, 6) is:

- Ans ☐ A. 1:3
☐ B. 3:4
☒ C. 2:7
☐ D. 2:5

Question Type : MCQ
Question ID : 4335765178
Option 1 ID : 43357620709
Option 2 ID : 43357620710
Option 3 ID : 43357620711
Option 4 ID : 43357620712
Status : Answered
Chosen Option : C

Q.17 An amount becomes 4 times in 6 years. In how many years will it become 64 times if the rate of interest remains unchanged?

- Ans ☐ A. 24 years
☒ B. 18 years
☐ C. 16 years
☐ D. 12 years

Question Type : MCQ
Question ID : 4335765167
Option 1 ID : 43357620665
Option 2 ID : 43357620666
Option 3 ID : 43357620667
Option 4 ID : 43357620668
Status : Answered
Chosen Option : B

Which of the following is equal to $\frac{1 - \cos 2\theta}{2}$?

Ans ☒ A. $\sin^2 \theta$

☐ B. $\cot^2 \theta$

☐ C. $\sec^2 \theta$

☐ D. $\cos^2 \theta$

Question Type : MCQ

Question ID : 4335765471

Option 1 ID : 43357621881

Option 2 ID : 43357621882

Option 3 ID : 43357621883

Option 4 ID : 43357621884

Status : Answered

Chosen Option : A

Q.19 The value of k, for which the system of equations $x + (k + 1)y = 5$ and $(k + 1)x + 9y = 8k - 1$ has infinitely many solutions is

Ans ☒ A. 2 .

☐ B. 3 .

☐ C. 4 .

☐ D. 5 .

Question Type : MCQ

Question ID : 4335765053

Option 1 ID : 43357620209

Option 2 ID : 43357620210

Option 3 ID : 43357620211

Option 4 ID : 43357620212

Status : Answered

Chosen Option : A

Q.20 if $\tan \theta = 7/24$, find $\sin \theta$ and $\cos \theta$.

Ans ☐ A. $7/17, 17/24$

☒ B. $7/25, 24/25$

☐ C. $17/24, 7/25$

☐ D. $7/24, 17/24$

Question Type : MCQ

Question ID : 4335765477

Option 1 ID : 43357621905

Option 2 ID : 43357621906

Option 3 ID : 43357621907

Option 4 ID : 43357621908

Status : Answered

Chosen Option : B

al in which $\angle ABC=90^\circ$, $\angle BDC=90^\circ$, $AC=17$ cm, $BC=15$, $BD=12$ cm, and $CD=19$ cm. The area of quad. ABDC is ____

- Ans ☒ A. 102 cm²
☐ B. 114 cm²
☐ C. 95 cm²
☐ D. 57 cm²

Question Type : MCQ
Question ID : 4335765304
Option 1 ID : 43357621213
Option 2 ID : 43357621214
Option 3 ID : 43357621215
Option 4 ID : 43357621216
Status : Answered
Chosen Option : A

Q.22 What is the remainder when 7^{103} is divided by 100?

- Ans ☐ A. 87
☒ B. 43
☐ C. 49
☐ D. 7

Question Type : MCQ
Question ID : 4335764987
Option 1 ID : 43357619945
Option 2 ID : 43357619946
Option 3 ID : 43357619947
Option 4 ID : 43357619948
Status : Answered
Chosen Option : B

Q.23 The perimeter of a circle having radius 5cm is equal to:

- Ans ☐ A. 30 cm
☐ B. 3.14 cm
☒ C. 31.4 cm
☐ D. 40 cm

Question Type : MCQ
Question ID : 4335765269
Option 1 ID : 43357621073
Option 2 ID : 43357621074
Option 3 ID : 43357621075
Option 4 ID : 43357621076
Status : Answered
Chosen Option : C

1 2 3 n the observations of a given data. Then the mean of the observations will be:

- Ans ☒ A. Sum of observations/Total number of observations
☒ B. Total number of observations/Sum of observations
☒ C. Sum of observations +Total number of observations
☒ D. None of these

Question Type : MCQ
Question ID : 4335765430
Option 1 ID : 43357621717
Option 2 ID : 43357621718
Option 3 ID : 43357621719
Option 4 ID : 43357621720
Status : Answered
Chosen Option : A

Q.25 The distance between the points (0, 5) and (–5, 0) is

- Ans ☒ A. 5 units
☒ B. $5\sqrt{2}$ units
☒ C. $2\sqrt{5}$ units
☒ D. 10 units

Question Type : MCQ
Question ID : 4335765182
Option 1 ID : 43357620725
Option 2 ID : 43357620726
Option 3 ID : 43357620727
Option 4 ID : 43357620728
Status : Answered
Chosen Option : B

Q.26 The height of an equilateral triangle is $3\sqrt{3}$ cm. Its area is

- Ans ☒ A. $6\sqrt{3}$ cm²
☒ B. 27 cm²
☒ C. $9\sqrt{3}$ cm²
☒ D. $27\sqrt{3}$ cm²

Question Type : MCQ
Question ID : 4335765298
Option 1 ID : 43357621189
Option 2 ID : 43357621190
Option 3 ID : 43357621191
Option 4 ID : 43357621192
Status : Answered
Chosen Option : C

t on a dozen pairs of trousers marked at Rs. 8000. How many pair of trousers can be bought with Rs. 2400?

- Ans ☒ A. 7
☒ B. 2
☒ C. 4
☒ D. 8

Question Type : MCQ
Question ID : 4335765137
Option 1 ID : 43357620545
Option 2 ID : 43357620546
Option 3 ID : 43357620547
Option 4 ID : 43357620548
Status : Answered
Chosen Option : C

Q.28 A person bought x kg of apples and y kg of oranges. If the cost of apples is 50 rupees per kg and the cost of oranges is 30 rupees per kg, and he spent a total of 210 rupees, what is the equation?

- Ans ☒ A. $30x - 50y = 210$
☒ B. $30x + 50y = 210$
☒ C. $50x - 30y = 210$
☒ D. $50x + 30y = 210$

Question Type : MCQ
Question ID : 4335765128
Option 1 ID : 43357620509
Option 2 ID : 43357620510
Option 3 ID : 43357620511
Option 4 ID : 43357620512
Status : Answered
Chosen Option : D

Q.29 If perimeter of a triangle is 100 cm and the length of two sides are 30 cm and 40 cm, the length of third side will be:

- Ans ☒ A. 30 cm
☒ B. 40 cm
☒ C. 50 cm
☒ D. 60 cm

Question Type : MCQ
Question ID : 4335765224
Option 1 ID : 43357620893
Option 2 ID : 43357620894
Option 3 ID : 43357620895
Option 4 ID : 43357620896
Status : Answered
Chosen Option : A

ta 4, 7, x - 1, x - 3, 16, 25, written in ascending order, is 13 then x

is equal to

- Ans ☒ A. 13
- ☒ B. 14
- ☒ C. 15
- ☒ D. 16

Question Type : MCQ
Question ID : 4335765426
Option 1 ID : 43357621701
Option 2 ID : 43357621702
Option 3 ID : 43357621703
Option 4 ID : 43357621704
Status : Answered
Chosen Option : C

Q.31 A fish tank has 5 male fish and 8 female fish. The probability of fish taken out is a male fish:

- Ans ☒ A. 5/8
- ☒ B. 5/13
- ☒ C. 13/5
- ☒ D. 5

Question Type : MCQ
Question ID : 4335765400
Option 1 ID : 43357621597
Option 2 ID : 43357621598
Option 3 ID : 43357621599
Option 4 ID : 43357621600
Status : Answered
Chosen Option : B

Q.32 The number 0.101001000100001... (with increasing number of zeros between ones) is:

- Ans ☒ A. Rational.
- ☒ B. Irrational.
- ☒ C. Terminating
- ☒ D. Repeating

Question Type : MCQ
Question ID : 4335764994
Option 1 ID : 43357619973
Option 2 ID : 43357619974
Option 3 ID : 43357619975
Option 4 ID : 43357619976
Status : Answered
Chosen Option : B

a discount of 25% on their trousers. Vivek went to shop. He wanted to save Rs. 400 in discount. How many trousers should he buy to do so, if each trouser costs Rs. 320?

- Ans ☒ A. 5
- ☒ B. 4
- ☒ C. 10
- ☒ D. 50

Question Type : MCQ
Question ID : 4335765135
Option 1 ID : 43357620537
Option 2 ID : 43357620538
Option 3 ID : 43357620539
Option 4 ID : 43357620540
Status : Answered
Chosen Option : A

Q.34 The perimeter of a triangle with vertices (0, 4), (0, 0) and (3, 0) is

- Ans ☒ A. 5
- ☒ B. 12
- ☒ C. 11
- ☒ D. $7 + \sqrt{5}$

Question Type : MCQ
Question ID : 4335765183
Option 1 ID : 43357620729
Option 2 ID : 43357620730
Option 3 ID : 43357620731
Option 4 ID : 43357620732
Status : Answered
Chosen Option : B

Q.35 If $\cos X = a/b$, then $\sin X$ is equal to:

- Ans ☒ A. $(b^2 - a^2)/b$
- ☒ B. $(b - a)/b$
- ☒ C. $\sqrt{(b^2 - a^2)}/b$
- ☒ D. $\sqrt{(b - a)}/b$

Question Type : MCQ
Question ID : 4335765437
Option 1 ID : 43357621745
Option 2 ID : 43357621746
Option 3 ID : 43357621747
Option 4 ID : 43357621748
Status : Answered
Chosen Option : C

is not a measure of central tendency?

- Ans ☒ A. Mean
☒ B. Mode
☒ C. Median
☒ D. Range

Question Type : MCQ
Question ID : 4335765411
Option 1 ID : 43357621641
Option 2 ID : 43357621642
Option 3 ID : 43357621643
Option 4 ID : 43357621644
Status : Answered
Chosen Option : D

Q.37 The decimal expansion of a real number is non-terminating but repeating. What type of number is it?

- Ans ☒ A. Rational .
☒ B. Irrational .
☒ C. Integer.
☒ D. Natural

Question Type : MCQ
Question ID : 4335765007
Option 1 ID : 43357620025
Option 2 ID : 43357620026
Option 3 ID : 43357620027
Option 4 ID : 43357620028
Status : Answered
Chosen Option : A

Q.38 If $\sin A = 1/2$, then the value of $\cot A$ is

- Ans ☒ A. $\sqrt{3}$
☒ B. $1/\sqrt{3}$
☒ C. $\sqrt{3}/2$
☒ D. 1

Question Type : MCQ
Question ID : 4335765442
Option 1 ID : 43357621765
Option 2 ID : 43357621766
Option 3 ID : 43357621767
Option 4 ID : 43357621768
Status : Answered
Chosen Option : A

int P(−6, 8) from the origin is

- Ans ☒ A. 8 units
☒ B. $2\sqrt{7}$ units
☒ C. 10 units
☒ D. 6 units

Question Type : MCQ
Question ID : 4335765181
Option 1 ID : 43357620721
Option 2 ID : 43357620722
Option 3 ID : 43357620723
Option 4 ID : 43357620724
Status : Answered
Chosen Option : C

Q.40 The length of a rectangular field is 12 m and the length of its diagonal is 15 m. The area of the field is

- Ans ☒ A. 108 m²
☒ B. 180 m²
☒ C. $30\sqrt{3}$ m²
☒ D. $12\sqrt{15}$ m²

Question Type : MCQ
Question ID : 4335765287
Option 1 ID : 43357621145
Option 2 ID : 43357621146
Option 3 ID : 43357621147
Option 4 ID : 43357621148
Status : Answered
Chosen Option : A

Q.41 A bi-quadratic equation has degree

- Ans ☒ A. 1
☒ B. 2
☒ C. 3
☒ D. 4

Question Type : MCQ
Question ID : 4335765097
Option 1 ID : 43357620385
Option 2 ID : 43357620386
Option 3 ID : 43357620387
Option 4 ID : 43357620388
Status : Answered
Chosen Option : D

est will Rs. 5000 fetch in 3 years 10 months at 30% per annum?

- Ans ☒ A. Rs. 8725.25
☒ B. Rs. 8735.50
☒ C. Rs. 8856.55
☒ D. Rs. 8731.25

Question Type : MCQ
Question ID : 4335765170
Option 1 ID : 43357620677
Option 2 ID : 43357620678
Option 3 ID : 43357620679
Option 4 ID : 43357620680
Status : Answered
Chosen Option : D

Q.43 A circle can have _____parallel tangents at a single time.

- Ans ☒ A. One
☒ B. Two
☒ C. Three
☒ D. Four

Question Type : MCQ
Question ID : 4335765255
Option 1 ID : 43357621017
Option 2 ID : 43357621018
Option 3 ID : 43357621019
Option 4 ID : 43357621020
Status : Answered
Chosen Option : B

Q.44 Mohan and Sohan solve an equation. In solving Mohan commits a mistake in constant term and finds the roots 8 and 2. Sohan commits a mistake in the coefficient of x. The correct roots are

- Ans ☒ A. 9,1
☒ B. -9,1
☒ C. 9, -1
☒ D. -9, -1

Question Type : MCQ
Question ID : 4335765104
Option 1 ID : 43357620413
Option 2 ID : 43357620414
Option 3 ID : 43357620415
Option 4 ID : 43357620416
Status : Answered
Chosen Option : D

ion $x(x + 1) + 8 = (x + 2)(x - 2)$ is

- Ans ☒ A. linear equation
☒ B. quadratic equation
☒ C. cubic equation
☒ D. bi-quadratic equation

Question Type : MCQ
Question ID : 4335765098
Option 1 ID : 43357620389
Option 2 ID : 43357620390
Option 3 ID : 43357620391
Option 4 ID : 43357620392
Status : Answered
Chosen Option : A

Q.46 The area of a circle is 38.5 cm^2 . The circumference of the circle is

- Ans ☒ A. 6.2 cm
☒ B. 12.1 cm
☒ C. 11 cm
☒ D. 22 cm

Question Type : MCQ
Question ID : 4335765308
Option 1 ID : 43357621229
Option 2 ID : 43357621230
Option 3 ID : 43357621231
Option 4 ID : 43357621232
Status : Answered
Chosen Option : D

Q.47 Which of the following cannot be determined graphically?

- Ans ☒ A. Mean
☒ B. Median
☒ C. Mode
☒ D. None of these

Question Type : MCQ
Question ID : 4335765412
Option 1 ID : 43357621645
Option 2 ID : 43357621646
Option 3 ID : 43357621647
Option 4 ID : 43357621648
Status : Answered
Chosen Option : C

statements are true?

- Ans ☒ A. Only one line can pass through a single point.
- ☒ B. There is an infinite number of lines that pass through two distinct points.
- ☒ C. A terminated line can be produced indefinitely on both sides
- ☒ D. If two circles are equal, then their radii are unequal.

Question Type : MCQ
Question ID : 4335765244
Option 1 ID : 43357620973
Option 2 ID : 43357620974
Option 3 ID : 43357620975
Option 4 ID : 43357620976
Status : Answered
Chosen Option : C

Q.49 Gurpreet went to a shop and bought a sofa. She got a 20% discount on it. Had she gotten 25% discount she would have saved Rs. 1000 more. How much did she pay for the sofa?

- Ans ☒ A. Rs. 5000
- ☒ B. Rs. 10,000
- ☒ C. Rs. 20,000
- ☒ D. Rs. 25000

Question Type : MCQ
Question ID : 4335765132
Option 1 ID : 43357620525
Option 2 ID : 43357620526
Option 3 ID : 43357620527
Option 4 ID : 43357620528
Status : Answered
Chosen Option : C

Q.50 A fruit seller sells only apples and oranges. She has 90 fruits in total. If apples cost ₹4 each and oranges ₹3 each, and she earned ₹325 from selling all fruits, find the number of apples and oranges.

- Ans ☒ A. 40 apples, 50 oranges
- ☒ B. 45 apples, 45 oranges
- ☒ C. 50 apples, 40 oranges
- ☒ D. 55 apples, 35 oranges

Question Type : MCQ
Question ID : 4335765057
Option 1 ID : 43357620225
Option 2 ID : 43357620226
Option 3 ID : 43357620227
Option 4 ID : 43357620228
Status : Answered
Chosen Option : D

t of 25% on Rs. 3600 oven. Since she pays cash, she gets additional 2% discount too. How much does she pay?

- Ans ☒ A. Rs. 2864
☒ B. Rs. 2468
☒ C. Rs. 2548
☒ D. Rs. 2646

Question Type : MCQ
Question ID : 4335765140
Option 1 ID : 43357620557
Option 2 ID : 43357620558
Option 3 ID : 43357620559
Option 4 ID : 43357620560
Status : Answered
Chosen Option : D

Q.52 The lengths of the sides of a triangular field are 20 m, 21 m and 29 m. The cost of cultivating the field at ₹ 9 per m² is

- Ans ☒ A. 2610
☒ B. 3780
☒ C. 1890
☒ D. 1800

Question Type : MCQ
Question ID : 4335765300
Option 1 ID : 43357621197
Option 2 ID : 43357621198
Option 3 ID : 43357621199
Option 4 ID : 43357621200
Status : Answered
Chosen Option : C

Q.53 One year ago, a man was 8 times as old as his son. Now his age is equal to the square of his son's age. Their present ages are

- Ans ☒ A. 7 years, 49 years
☒ B. 5 years, 25 years
☒ C. 1 years, 50 years
☒ D. 6 years, 49 years

Question Type : MCQ
Question ID : 4335765112
Option 1 ID : 43357620445
Option 2 ID : 43357620446
Option 3 ID : 43357620447
Option 4 ID : 43357620448
Status : Answered
Chosen Option : A

gle are (0, 0), (3, 0), and (0, 4). What is the area of the triangle?

- Ans ☒ A. 3
☒ B. 4
☒ C. 6
☒ D. 12

Question Type : MCQ
Question ID : 4335765208
Option 1 ID : 43357620829
Option 2 ID : 43357620830
Option 3 ID : 43357620831
Option 4 ID : 43357620832
Status : Answered
Chosen Option : C

Q.55 The difference between the two numbers is 1365. On dividing the larger number by the smaller, we get 6 as the quotient and 15 as the remainder. What is the smaller number?

- Ans ☒ A. 360
☒ B. 295
☒ C. 270
☒ D. 240

Question Type : MCQ
Question ID : 4335765023
Option 1 ID : 43357620089
Option 2 ID : 43357620090
Option 3 ID : 43357620091
Option 4 ID : 43357620092
Status : Answered
Chosen Option : C

Q.56 The area of a triangle with vertices (a, b + c), (b, c + a) and (c, a + b) is

- Ans ☒ A. $(a + b + c)^2$
☒ B. 0
☒ C. $a + b + c$
☒ D. ab

Question Type : MCQ
Question ID : 4335765184
Option 1 ID : 43357620733
Option 2 ID : 43357620734
Option 3 ID : 43357620735
Option 4 ID : 43357620736
Status : Answered
Chosen Option : B

are equal to the circumference of a circle then the ratio of

their areas is

- Ans ☒ A. $4 : \pi$
☒ B. $\pi : 4$
☒ C. $\pi : 7$
☒ D. $7 : \pi$

Question Type : MCQ
Question ID : 4335765317
Option 1 ID : 43357621265
Option 2 ID : 43357621266
Option 3 ID : 43357621267
Option 4 ID : 43357621268
Status : Answered
Chosen Option : B

Q.58 If we join two hemispheres of same radius along their bases, then we get a;

- Ans ☒ A. Cone
☒ B. Cylinder
☒ C. Sphere
☒ D. Cuboid

Question Type : MCQ
Question ID : 4335765346
Option 1 ID : 43357621381
Option 2 ID : 43357621382
Option 3 ID : 43357621383
Option 4 ID : 43357621384
Status : Answered
Chosen Option : C

Q.59 If α and β are the roots of the quadratic equation $x^2 + px + q = 0$, and $\alpha^3\beta + \alpha\beta^3 = 30$ and $\alpha\beta = 3$, what is the value of p ?

- Ans ☒ A. ± 6
☒ B. ± 8
☒ C. ± 4
☒ D. ± 10

Question Type : MCQ
Question ID : 4335765119
Option 1 ID : 43357620473
Option 2 ID : 43357620474
Option 3 ID : 43357620475
Option 4 ID : 43357620476
Status : Answered
Chosen Option : C

oint P, where PQ is the diameter of a circle whose centre is (2, –

3) and Q is (1, 4) is:

- Ans ☒ A. (3, -10)
☒ B. (2, -10)
☒ C. (-3, 10)
☒ D. (-2, 10)

Question Type : MCQ
Question ID : 4335765179
Option 1 ID : 43357620713
Option 2 ID : 43357620714
Option 3 ID : 43357620715
Option 4 ID : 43357620716
Status : Answered
Chosen Option : A

Q.61 If α and β are the roots of the quadratic equation $x^2 - 5x + 3 = 0$, what is the value of $(\alpha/\beta + \beta/\alpha)$?

- Ans ☒ A. 7/3
☒ B. 13/3
☒ C. 19/3
☒ D. 25/3

Question Type : MCQ
Question ID : 4335765116
Option 1 ID : 43357620461
Option 2 ID : 43357620462
Option 3 ID : 43357620463
Option 4 ID : 43357620464
Status : Answered
Chosen Option : C

Q.62 The ratio of the total surface area to the lateral surface area of a cylinder with base radius 80 cm and height 20 cm is

- Ans ☒ A. 2 : 1
☒ B. 3 : 1
☒ C. 4 : 1
☒ D. 5 : 1

Question Type : MCQ
Question ID : 4335765364
Option 1 ID : 43357621453
Option 2 ID : 43357621454
Option 3 ID : 43357621455
Option 4 ID : 43357621456
Status : Answered
Chosen Option : D

$x = 0$ and $x = 5$ has

- Ans ☒ A. no solution
- ☒ B. unique/one solution
- ☒ C. two solutions
- ☒ D. infinitely many solutions

Question Type : MCQ
Question ID : 4335765043
Option 1 ID : 43357620169
Option 2 ID : 43357620170
Option 3 ID : 43357620171
Option 4 ID : 43357620172
Status : Answered
Chosen Option : B

Q.64 The steps from solids to points are:

- Ans ☒ A. Lines – points – surfaces – solids
- ☒ B. Lines – surfaces – points – solids
- ☒ C. Solids – lines – surfaces – points
- ☒ D. Solids – surfaces – linepoint

Question Type : MCQ
Question ID : 4335765248
Option 1 ID : 43357620989
Option 2 ID : 43357620990
Option 3 ID : 43357620991
Option 4 ID : 43357620992
Status : Answered
Chosen Option : D

Q.65 If the perimeter and the area of a circle are numerically equal, then the radius of the circle is

- Ans ☒ A. 2 units
- ☒ B. π units
- ☒ C. 4 units
- ☒ D. 7 units

Question Type : MCQ
Question ID : 4335765282
Option 1 ID : 43357621125
Option 2 ID : 43357621126
Option 3 ID : 43357621127
Option 4 ID : 43357621128
Status : Answered
Chosen Option : A

For the equation $|x| + |x| - 6 = 0$, what is the product of the roots?

- Ans ☒ A. 4
☒ B. -4
☒ C. 6
☒ D. -6

Question Type : **MCQ**
Question ID : **4335765077**
Option 1 ID : **43357620305**
Option 2 ID : **43357620306**
Option 3 ID : **43357620307**
Option 4 ID : **43357620308**
Status : **Answered**
Chosen Option : **D**

Q.67 If successive discounts are 15% and 10% then, what is its single equivalent discount?

- Ans ☒ A. 12.5%
☒ B. 24.5%
☒ C. 23.5%
☒ D. 20%

Question Type : **MCQ**
Question ID : **4335765156**
Option 1 ID : **43357620621**
Option 2 ID : **43357620622**
Option 3 ID : **43357620623**
Option 4 ID : **43357620624**
Status : **Answered**
Chosen Option : **C**

Q.68 A two-digit number has a digit sum of 9. If the digits are reversed, the new number is 27 more than the original number. What is the number?

- Ans ☒ A. 36
☒ B. 45
☒ C. 63
☒ D. 72

Question Type : **MCQ**
Question ID : **4335765071**
Option 1 ID : **43357620281**
Option 2 ID : **43357620282**
Option 3 ID : **43357620283**
Option 4 ID : **43357620284**
Status : **Answered**
Chosen Option : **A**

radius 8 cm and height 2 cm is melted and converted into a right circular cone of height 6 cm. The radius of the base of this cone is

- Ans ☒ A. 4 cm
☒ B. 5 cm
☒ C. 6 cm
☒ D. 8 cm

Question Type : MCQ

Question ID : 4335765374

Option 1 ID : 43357621493

Option 2 ID : 43357621494

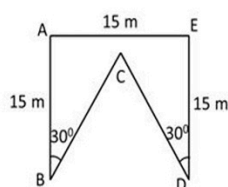
Option 3 ID : 43357621495

Option 4 ID : 43357621496

Status : Answered

Chosen Option : D

Q.70 The figure shows map of a field bounded by ABCDE. If AB and DE are perpendicular to AE, then the perimeter of the field is



- Ans ☒ A. 70 m
☒ B. 75 m
☒ C. 80 m
☒ D. 85 m

Question Type : MCQ

Question ID : 4335764982

Option 1 ID : 43357619925

Option 2 ID : 43357619926

Option 3 ID : 43357619927

Option 4 ID : 43357619928

Status : Answered

Chosen Option : A

Q.71 The intersection of real and imaginary numbers is:

- Ans ☒ A. Complex numbers.
☒ B. Whole numbers
☒ C. Empty Set

☒ D. $\{0\}$

Question Type : MCQ

Question ID : 4335765018

Option 1 ID : 43357620069

Option 2 ID : 43357620070

Option 3 ID : 43357620071

Option 4 ID : 43357620072

Status : Answered

Chosen Option : C

int of intersection of the Less Than Type and of the More Than
Type cumulative frequency curves of a grouped data gives its

- Ans ☒ A. mean
☒ B. Median
☒ C. Mode
☒ D. None of these

Question Type : MCQ
Question ID : 4335765417
Option 1 ID : 43357621665
Option 2 ID : 43357621666
Option 3 ID : 43357621667
Option 4 ID : 43357621668
Status : Answered
Chosen Option : B

Q.73 A line intersecting a circle in two points is called a _____.

- Ans ☒ A. Secant
☒ B. Chord
☒ C. Diameter
☒ D. Tangent

Question Type : MCQ
Question ID : 4335765264
Option 1 ID : 43357621053
Option 2 ID : 43357621054
Option 3 ID : 43357621055
Option 4 ID : 43357621056
Status : Answered
Chosen Option : A

Q.74 If α and β are the roots of a quadratic equation, and $(\alpha + \beta)^2 = 3\alpha\beta$ and $\alpha\beta = 4$, what is the equation?

- Ans ☒ A. $x^2 \pm 2x + 4 = 0$
☒ B. $x^2 \pm 4x + 4 = 0$
☒ C. $x^2 \pm 2\sqrt{3}x + 4 = 0$
☒ D. $x^2 \pm 4\sqrt{3}x + 4 = 0$

Question Type : MCQ
Question ID : 4335765120
Option 1 ID : 43357620477
Option 2 ID : 43357620478
Option 3 ID : 43357620479
Option 4 ID : 43357620480
Status : Answered
Chosen Option : D

times his son's age. Four years hence, the age of the father will be four times his son's age. The present ages, in years, of the son and the father are, respectively

- Ans ☒ A. 4 and 24
☒ B. 5 and 30
☒ C. 6 and 36
☒ D. 3 and 24

Question Type : MCQ
Question ID : 4335765037
Option 1 ID : 43357620145
Option 2 ID : 43357620146
Option 3 ID : 43357620147
Option 4 ID : 43357620148
Status : Answered
Chosen Option : C

Q.76 The point which lies on the perpendicular bisector of the line segment joining the points A(-2, -5) and B(2, 5) is

- Ans ☒ A. (0, 0)
☒ B. (0, 2)
☒ C. (2, 0)
☒ D. (-2, 0)

Question Type : MCQ
Question ID : 4335765185
Option 1 ID : 43357620737
Option 2 ID : 43357620738
Option 3 ID : 43357620739
Option 4 ID : 43357620740
Status : Answered
Chosen Option : A

Q.77 The height of a cylinder is 14 cm and its curved surface area is 264 cm². The volume of the cylinder is

- Ans ☒ A. 3083
☒ B. 396 cm³
☒ C. 1232 cm³
☒ D. 1848 cm³

Question Type : MCQ
Question ID : 4335765362
Option 1 ID : 43357621445
Option 2 ID : 43357621446
Option 3 ID : 43357621447
Option 4 ID : 43357621448
Status : Answered
Chosen Option : B

If $y \sin 45^\circ \cos 45^\circ = \tan^2 45^\circ - \cos^2 30^\circ$, then $y = \dots$

Ans ☒ A. $-1/2$

☒ B. $1/2$

☒ C. -2

☒ D. 2

Question Type : **MCQ**

Question ID : **4335765452**

Option 1 ID : **43357621805**

Option 2 ID : **43357621806**

Option 3 ID : **43357621807**

Option 4 ID : **43357621808**

Status : **Answered**

Chosen Option : **B**

Q.79 The area of the triangle formed by the points A(-1.5, 3), B(6, -2) and C(-3, 4) is

Ans ☒ A. 0

☒ B. 1

☒ C. 2

☒ D. $3/2$

Question Type : **MCQ**

Question ID : **4335765203**

Option 1 ID : **43357620809**

Option 2 ID : **43357620810**

Option 3 ID : **43357620811**

Option 4 ID : **43357620812**

Status : **Answered**

Chosen Option : **A**

Q.80 A toy seller has 100 toys, only dolls and cars. Each doll costs ₹15 and each car ₹10. If the total value is ₹1250, find the number of dolls and cars.

Ans ☒ A. 40 dolls, 60 cars

☒ B. 50 dolls, 50 cars

☒ C. 60 dolls, 40 cars

☒ D. 70 dolls, 30 cars

Question Type : **MCQ**

Question ID : **4335765059**

Option 1 ID : **43357620233**

Option 2 ID : **43357620234**

Option 3 ID : **43357620235**

Option 4 ID : **43357620236**

Status : **Answered**

Chosen Option : **B**

onal of a square is $10\sqrt{2}$ cm. Its area is

- Ans ☒ A. 200 cm²
☒ B. 100 cm²
☒ C. 150 cm²
☒ D. $100\sqrt{2}$ cm²

Question Type : MCQ
Question ID : 4335765292
Option 1 ID : 43357621165
Option 2 ID : 43357621166
Option 3 ID : 43357621167
Option 4 ID : 43357621168
Status : Answered
Chosen Option : B

Q.82 The volume of a hemisphere is 19404 cm³. The total surface area of the hemisphere is

- Ans ☒ A. 4158 cm²
☒ B. 16632 cm²
☒ C. 8316 cm²
☒ D. 3696 cm

Question Type : MCQ
Question ID : 4335765379
Option 1 ID : 43357621513
Option 2 ID : 43357621514
Option 3 ID : 43357621515
Option 4 ID : 43357621516
Status : Answered
Chosen Option : A

Q.83 The probability that cannot exist among the following:

- Ans ☒ A. $\frac{2}{3}$
☒ B. -1.5
☒ C. 0.15
☒ D. 0.7

Question Type : MCQ
Question ID : 4335765392
Option 1 ID : 43357621565
Option 2 ID : 43357621566
Option 3 ID : 43357621567
Option 4 ID : 43357621568
Status : Answered
Chosen Option : B

A chess board contains 64 equal squares and the area of each square is 6.25 cm^2 . A border round the board is 2 cm wide. The length of the side of the chess board is

- Ans ☒ A. 8 cm
☒ B. 12 cm
☒ C. 24 cm
☒ D. 36 cm

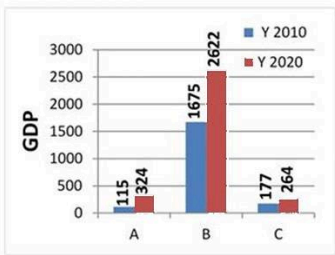
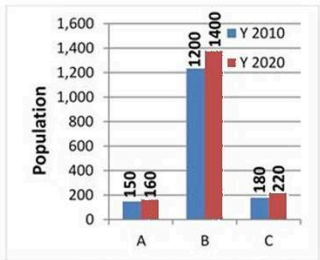
Question Type : MCQ
Question ID : 4335765111
Option 1 ID : 43357620441
Option 2 ID : 43357620442
Option 3 ID : 43357620443
Option 4 ID : 43357620444
Status : Answered
Chosen Option : C

Q.85 The area of the triangle whose vertices are A(1, 2), B(-2, 3) and C(-3, -4) is

- Ans ☒ A. 11
☒ B. 22
☒ C. 33
☒ D. 21

Question Type : MCQ
Question ID : 4335765195
Option 1 ID : 43357620777
Option 2 ID : 43357620778
Option 3 ID : 43357620779
Option 4 ID : 43357620780
Status : Answered
Chosen Option : B

Q.86 The populations and gross domestic products (GDP) in billion USD of three countries A, B and C in the years 2010 and 2020 are shown in the two figures below.



In terms of increase in per capita GDP from 2010-2020, their ranking from high to low is

- Ans ☒ A. A, B, C
☒ B. B, A, C
☒ C. B, C, A
☒ D. C, A, B

Question Type : MCQ
Question ID : 4335764984
Option 1 ID : 43357619933
Option 2 ID : 43357619934
Option 3 ID : 43357619935
Option 4 ID : 43357619936
Status : Answered
Chosen Option : B

of 50,000 in 1988. In one year i.e. by 1989 it increased by 25%.
Next year i.e. in 1990, it decreased by 30%. The next year in 1991 there was an increase
of 40%. What is the population at end of 1991?

- Ans ☒ A. 60250
☒ B. 62250
☒ C. 66550
☒ D. 61250

Question Type : MCQ
Question ID : 4335765169
Option 1 ID : 43357620673
Option 2 ID : 43357620674
Option 3 ID : 43357620675
Option 4 ID : 43357620676
Status : Answered
Chosen Option : D

Q.88 On decreasing the radius of a circle by 30%, its area is decreased by

- Ans ☒ A. 30%
☒ B. 60%
☒ C. 45%
☒ D. none of these

Question Type : MCQ
Question ID : 4335765313
Option 1 ID : 43357621249
Option 2 ID : 43357621250
Option 3 ID : 43357621251
Option 4 ID : 43357621252
Status : Answered
Chosen Option : D

Q.89 If $\sin \theta = 1/2$, what is the value of $\cos 2\theta$?

- Ans ☒ A. 1/4
☒ B. 1/2
☒ C. 3/4
☒ D. 1

Question Type : MCQ
Question ID : 4335765473
Option 1 ID : 43357621889
Option 2 ID : 43357621890
Option 3 ID : 43357621891
Option 4 ID : 43357621892
Status : Answered
Chosen Option : B

is not a property of real numbers?

- Ans ☒ A. Closure under addition
- ☒ B. Existence of multiplicative inverse for every non-zero number
- ☒ C. Commutativity of multiplication
- ☒ D. Every real number has a square root in real numbers

Question Type : MCQ
Question ID : 4335765000
Option 1 ID : 43357619997
Option 2 ID : 43357619998
Option 3 ID : 43357619999
Option 4 ID : 43357620000
Status : Answered
Chosen Option : B

Q.91 If triangles ABC and DEF are similar and AB=4 cm, DE=6 cm, EF=9 cm and FD=12 cm, the perimeter of triangle ABC is:

- Ans ☒ A. 22 cm
- ☒ B. 20 cm
- ☒ C. 21 cm
- ☒ D. 18 cm

Question Type : MCQ
Question ID : 4335765225
Option 1 ID : 43357620897
Option 2 ID : 43357620898
Option 3 ID : 43357620899
Option 4 ID : 43357620900
Status : Answered
Chosen Option : D

Q.92 If the pair of linear equations has a unique solution, then the lines representing these equations will

- Ans ☒ A. coincide
- ☒ B. intersect at one point
- ☒ C. parallel to each other
- ☒ D. parallel to x-axis

Question Type : MCQ
Question ID : 4335765038
Option 1 ID : 43357620149
Option 2 ID : 43357620150
Option 3 ID : 43357620151
Option 4 ID : 43357620152
Status : Answered
Chosen Option : B

mbus are 16 cm and 12 cm, in length. The side of the rhombus in

length is:

- Ans ☒ A. 20 cm
☒ B. 8 cm
☒ C. 10 cm
☒ D. 9 cm

Question Type : MCQ
Question ID : 4335765222
Option 1 ID : 43357620885
Option 2 ID : 43357620886
Option 3 ID : 43357620887
Option 4 ID : 43357620888
Status : Answered
Chosen Option : C

Q.94 One side of a rhombus is 20 cm long and one of its diagonals measures 24 cm. The area of the rhombus is

- Ans ☒ A. 192 cm²
☒ B. 480 cm²
☒ C. 240 cm²
☒ D. 384 cm²

Question Type : MCQ
Question ID : 4335765303
Option 1 ID : 43357621209
Option 2 ID : 43357621210
Option 3 ID : 43357621211
Option 4 ID : 43357621212
Status : Answered
Chosen Option : A

Q.95 If $\sin \theta + \sin^2 \theta = 1$, then $\cos^2 \theta + \cos^4 \theta = ..$

- Ans ☒ A. -1
☒ B. 0
☒ C. 1
☒ D. 2

Question Type : MCQ
Question ID : 4335765453
Option 1 ID : 43357621809
Option 2 ID : 43357621810
Option 3 ID : 43357621811
Option 4 ID : 43357621812
Status : Answered
Chosen Option : C

h of a rectangle by 20% and decreasing its breadth by 20%, what is the change in its area?

- Ans ☒ A. 20% increase
☒ B. 20% decrease
☒ C. No change
☒ D. 4% decrease

Question Type : MCQ
Question ID : 4335765290
Option 1 ID : 43357621157
Option 2 ID : 43357621158
Option 3 ID : 43357621159
Option 4 ID : 43357621160
Status : Answered
Chosen Option : D

Q.97 A chord of a circle of radius 10 cm subtends a right angle at the centre. The area of the minor segments (given, $\pi = 3.14$) is

- Ans ☒ A. 32.5 cm²
☒ B. 34.5 cm²
☒ C. 28.5 cm²
☒ D. 30.5 cm²

Question Type : MCQ
Question ID : 4335765329
Option 1 ID : 43357621313
Option 2 ID : 43357621314
Option 3 ID : 43357621315
Option 4 ID : 43357621316
Status : Answered
Chosen Option : B

Q.98 If $x = a \cos \theta$ and $y = b \sin \theta$, then $b^2x^2 + a^2y^2 =$

- Ans ☒ A. ab
☒ B. $b^2 + a^2$
☒ C. a^2b^2
☒ D. a^4b^4

Question Type : MCQ
Question ID : 4335765455
Option 1 ID : 43357621817
Option 2 ID : 43357621818
Option 3 ID : 43357621819
Option 4 ID : 43357621820
Status : Answered
Chosen Option : B

f a frequency distribution are 28 and 16 respectively. The median

is

- Ans ☒ A. 22
- ☒ B. 23.5
- ☒ C. 24
- ☒ D. 24.5

Question Type : MCQ
Question ID : 4335765421
Option 1 ID : 43357621681
Option 2 ID : 43357621682
Option 3 ID : 43357621683
Option 4 ID : 43357621684
Status : Answered
Chosen Option : C

Q.10 If we change the shape of an object from a sphere to a cylinder, then the volume of
0 cylinder will

- Ans ☒ A. Increase
- ☒ B. Decrease
- ☒ C. Remains unchanged
- ☒ D. Doubles

Question Type : MCQ
Question ID : 4335765342
Option 1 ID : 43357621365
Option 2 ID : 43357621366
Option 3 ID : 43357621367
Option 4 ID : 43357621368
Status : Answered
Chosen Option : A

Section : Part II

Q.10 Knowledge is compartmentalized in:
1

- Ans ☒ A. Learner centred curriculum
- ☒ B. Activity centred curriculum
- ☒ C. Subject centred curriculum
- ☒ D. None of these

Question Type : MCQ
Question ID : 4335764217
Option 1 ID : 43357616865
Option 2 ID : 43357616866
Option 3 ID : 43357616867
Option 4 ID : 43357616868
Status : Answered
Chosen Option : A

ing is to be considered while implementing child-centred

2 learning?

- Ans ☒ A. area of learning
- ☒ B. teaching strategies accommodate intellectual and emotional needs
- ☒ C. student's social needs
- ☒ D. all of the above

Question Type : **MCQ**
Question ID : **4335763486**
Option 1 ID : **43357613941**
Option 2 ID : **43357613942**
Option 3 ID : **43357613943**
Option 4 ID : **43357613944**
Status : **Answered**
Chosen Option : **C**

Q.10 Which among the following is a "Law of Learning"?

3

- Ans ☒ A. Law of motivation
- ☒ B. The Law of individual difference
- ☒ C. Law of exercise
- ☒ D. None

Question Type : **MCQ**
Question ID : **4335764249**
Option 1 ID : **43357616993**
Option 2 ID : **43357616994**
Option 3 ID : **43357616995**
Option 4 ID : **43357616996**
Status : **Answered**
Chosen Option : **C**

Q.10 Bringing together different values into a consistent value system is

4

- Ans ☒ A. Attending/ Receiving
- ☒ B. Responding
- ☒ C. Valuing
- ☒ D. Organization

Question Type : **MCQ**
Question ID : **4335763551**
Option 1 ID : **43357614201**
Option 2 ID : **43357614202**
Option 3 ID : **43357614203**
Option 4 ID : **43357614204**
Status : **Answered**
Chosen Option : **C**

5

on used for different concepts at the same class is:

- Ans ☒ A. Horizontal
- ☐ B. Vertical
- ☐ C. Logical
- ☐ D. None of these

Question Type : MCQ
Question ID : 4335764175
Option 1 ID : 43357616697
Option 2 ID : 43357616698
Option 3 ID : 43357616699
Option 4 ID : 43357616700
Status : Answered
Chosen Option : A

Q.10 Which type of lesson plan is comprehensive and complex, requiring extensive
6 planning?

- Ans ☐ A. Daily lesson plan
- ☐ B. Weekly lesson plan
- ☒ C. Monthly lesson plan
- ☐ D. Sequential lesson plans

Question Type : MCQ
Question ID : 4335763700
Option 1 ID : 43357614797
Option 2 ID : 43357614798
Option 3 ID : 43357614799
Option 4 ID : 43357614800
Status : Answered
Chosen Option : C

Q.10 Which one of the following is not related to Continuous and Comprehensive
7 Evaluation?

- Ans ☐ A. It has been mandated by the Right to Education Act of India.
- ☐ B. It is an integral part of teaching-learning process.
- ☐ C. It focuses on child's achievement in different learning areas.
- ☒ D. It is useful to label children as slow, poor or intelligent.

Question Type : MCQ
Question ID : 4335763923
Option 1 ID : 43357615689
Option 2 ID : 43357615690
Option 3 ID : 43357615691
Option 4 ID : 43357615692
Status : Answered
Chosen Option : D

8

- Ans ☒ A. to promote student learning and well-being
- ☐ B. to prepare weekly lesson plans
- ☐ C. to collect data
- ☐ D. to guide the student in possessing technical competence

Question Type : **MCQ**
Question ID : **4335763970**
Option 1 ID : **43357615877**
Option 2 ID : **43357615878**
Option 3 ID : **43357615879**
Option 4 ID : **43357615880**
Status : **Answered**
Chosen Option : **A**

Q.10 Which one of the following describes professional ethics of a teacher?
9

- Ans ☐ A. Members of the profession are free to do what they want
- ☐ B. The authority enforces discipline on the members of the profession
- ☐ C. It is the same thing as the code of conduct
- ☒ D. It has to be self regulating and self imposed

Question Type : **MCQ**
Question ID : **4335764051**
Option 1 ID : **43357616201**
Option 2 ID : **43357616202**
Option 3 ID : **43357616203**
Option 4 ID : **43357616204**
Status : **Answered**
Chosen Option : **C**

Q.11 Which of the following is the advantage of Deductive method?
0

- Ans ☐ A. It can be used for all subjects
- ☐ B. It is appropriate for higher level classes
- ☐ C. Teacher can teach all students at a time
- ☒ D. All of the above

Question Type : **MCQ**
Question ID : **4335763611**
Option 1 ID : **43357614441**
Option 2 ID : **43357614442**
Option 3 ID : **43357614443**
Option 4 ID : **43357614444**
Status : **Answered**
Chosen Option : **B**

ure and answer guiding questions about it is an example of

1

- Ans ☒ A. Engage
- ☒ B. Elaborate
- ☒ C. Explore
- ☒ D. Explain

Question Type : **MCQ**
Question ID : **4335763727**
Option 1 ID : **43357614905**
Option 2 ID : **43357614906**
Option 3 ID : **43357614907**
Option 4 ID : **43357614908**
Status : **Answered**
Chosen Option : **D**

Q.11 Effective teaching, by and large, is a function of
2

- Ans ☒ A. Maintaining discipline in the class.
- ☒ B. Teachers' honesty
- ☒ C. Teachers making students learn and understand.
- ☒ D. Teachers' liking for the job of teaching.

Question Type : **MCQ**
Question ID : **4335763469**
Option 1 ID : **43357613873**
Option 2 ID : **43357613874**
Option 3 ID : **43357613875**
Option 4 ID : **43357613876**
Status : **Answered**
Chosen Option : **C**

Q.11 The demonstration aids in bringing about a relationship between the theory and
3

- Ans ☒ A. practice
- ☒ B. hypothesis
- ☒ C. concept
- ☒ D. observation

Question Type : **MCQ**
Question ID : **4335763569**
Option 1 ID : **43357614273**
Option 2 ID : **43357614274**
Option 3 ID : **43357614275**
Option 4 ID : **43357614276**
Status : **Answered**
Chosen Option : **A**

4

opted for effective classroom teaching.

- Ans ☒ A. Improving classroom climate
- ☒ B. Manipulating teaching methods
- ☒ C. Teaching latest trends and advances
- ☒ D. Use of technological aids

Question Type : **MCQ**
Question ID : **4335764320**
Option 1 ID : **43357617277**
Option 2 ID : **43357617278**
Option 3 ID : **43357617279**
Option 4 ID : **43357617280**
Status : **Answered**
Chosen Option : **A**

Q.11 What is the benefit of changing seats of students in classroom?
5

- Ans ☒ A. It promotes social interaction and emotional bonding
- ☒ B. Child do not feel inferior in class
- ☒ C. Makes child free and more confident
- ☒ D. New comers are welcomed and involved in school and classroom activities

Question Type : **MCQ**
Question ID : **4335763854**
Option 1 ID : **43357615413**
Option 2 ID : **43357615414**
Option 3 ID : **43357615415**
Option 4 ID : **43357615416**
Status : **Answered**
Chosen Option : **C**

Q.11 How should a teacher be related to his peers?
6

- Ans ☒ A. Should copy other teacher's style
- ☒ B. Follow independent views
- ☒ C. Should not intervene in other's work
- ☒ D. Suggest each other the effective ways to teach

Question Type : **MCQ**
Question ID : **4335764292**
Option 1 ID : **43357617165**
Option 2 ID : **43357617166**
Option 3 ID : **43357617167**
Option 4 ID : **43357617168**
Status : **Answered**
Chosen Option : **D**

are done in teaching because

7

- Ans ☒ A. teaching becomes easy
- ☒ B. students pay attention in the class
- ☒ C. teaching becomes interesting
- ☒ D. All of these

Question Type : MCQ
Question ID : 4335764027
Option 1 ID : 43357616105
Option 2 ID : 43357616106
Option 3 ID : 43357616107
Option 4 ID : 43357616108
Status : Answered
Chosen Option : D

Q.11 Is internet based teaching suitable for India?
8

- Ans ☒ A. Yes
- ☒ B. No
- ☒ C. Yes, but must measure the effectiveness and guide time to time
- ☒ D. Not at the present scenario

Question Type : MCQ
Question ID : 4335764017
Option 1 ID : 43357616065
Option 2 ID : 43357616066
Option 3 ID : 43357616067
Option 4 ID : 43357616068
Status : Answered
Chosen Option : A

Q.11 The classification of cognitive domain was presented by
9

- Ans ☒ A. Benjamin S. Bloom
- ☒ B. Skinner
- ☒ C. Krathwhol
- ☒ D. Simpson

Question Type : MCQ
Question ID : 4335763529
Option 1 ID : 43357614113
Option 2 ID : 43357614114
Option 3 ID : 43357614115
Option 4 ID : 43357614116
Status : Answered
Chosen Option : A

ique that allows students to demonstrate their knowledge through

0 oral presentations or performances is called:

- Ans ☒ A. Formative assessment
☒ B. Summative assessment
☒ C. Authentic assessment
☒ D. Individual assessment

Question Type : **MCQ**
Question ID : **4335764134**
Option 1 ID : **43357616533**
Option 2 ID : **43357616534**
Option 3 ID : **43357616535**
Option 4 ID : **43357616536**
Status : **Answered**
Chosen Option : **A**

Q.12 Who first adopted Micro teaching techniques?
1

- Ans ☒ A. Dwight . W. Allen
☒ B. Dwight Waldo
☒ C. Michael Brown
☒ D. Stanley John

Question Type : **MCQ**
Question ID : **4335763785**
Option 1 ID : **43357615137**
Option 2 ID : **43357615138**
Option 3 ID : **43357615139**
Option 4 ID : **43357615140**
Status : **Answered**
Chosen Option : **A**

Q.12 Students those do not need visual needs are
2

- Ans ☒ A. General level
☒ B. Lower level
☒ C. High level
☒ D. None of these

Question Type : **MCQ**
Question ID : **4335764021**
Option 1 ID : **43357616081**
Option 2 ID : **43357616082**
Option 3 ID : **43357616083**
Option 4 ID : **43357616084**
Status : **Answered**
Chosen Option : **A**

3

- Ans ☒ A. Socialization
- ☐ B. Individualization
- ☐ C. Both a & b
- ☐ D. None of these

Question Type : **MCQ**
Question ID : **4335763447**
Option 1 ID : **43357613785**
Option 2 ID : **43357613786**
Option 3 ID : **43357613787**
Option 4 ID : **43357613788**
Status : **Answered**
Chosen Option : **A**

Q.12 How far a teacher has been successful in his /her mission, may reflect upon his/her

4

- Ans ☐ A. love for students
- ☒ B. teacher effectiveness
- ☐ C. regularity
- ☐ D. attitude towards other teachers

Question Type : **MCQ**
Question ID : **4335763956**
Option 1 ID : **43357615821**
Option 2 ID : **43357615822**
Option 3 ID : **43357615823**
Option 4 ID : **43357615824**
Status : **Answered**
Chosen Option : **B**

Q.12 In micro teaching, feedback is given through audio cassette and video film. What has

5

- Ans ☐ A. Gramophone
- ☒ B. Human observer
- ☐ C. Filmstrip
- ☐ D. mobile

Question Type : **MCQ**
Question ID : **4335763772**
Option 1 ID : **43357615085**
Option 2 ID : **43357615086**
Option 3 ID : **43357615087**
Option 4 ID : **43357615088**
Status : **Answered**
Chosen Option : **D**

takes place:

6

- Ans ☒ A. In the beginning
- ☒ B. In the middle
- ☒ C. After regular interval
- ☒ D. At the end

Question Type : MCQ
Question ID : 4335764196
Option 1 ID : 43357616781
Option 2 ID : 43357616782
Option 3 ID : 43357616783
Option 4 ID : 43357616784
Status : Answered
Chosen Option : D

Q.12 Which one of the following questions invites children to think critically?
7

- Ans ☒ A. Do you know the answer to this?
- ☒ B. What is the right answer?
- ☒ C. Can you think of a similar situation?
- ☒ D. What are the different ways in which we can solve this?

Question Type : MCQ
Question ID : 4335763915
Option 1 ID : 43357615657
Option 2 ID : 43357615658
Option 3 ID : 43357615659
Option 4 ID : 43357615660
Status : Answered
Chosen Option : C

Q.12 How many types of lesson plan on the basis of Taxonomies?
8

- Ans ☒ A. 3
- ☒ B. 4
- ☒ C. 2
- ☒ D. 5

Question Type : MCQ
Question ID : 4335763691
Option 1 ID : 43357614761
Option 2 ID : 43357614762
Option 3 ID : 43357614763
Option 4 ID : 43357614764
Status : Answered
Chosen Option : A

additional teacher-guided classroom?

9

- Ans ☒ A. Children's expressions are not heard.
- ☒ B. Passive education is being given.
- ☒ C. Children speak only to answer the questions of the teacher.
- ☒ D. More than one option is correct

Question Type : MCQ
Question ID : 4335763845
Option 1 ID : 43357615377
Option 2 ID : 43357615378
Option 3 ID : 43357615379
Option 4 ID : 43357615380
Status : Answered
Chosen Option : D

Q.13 The main objective of reflective level teaching is

0

- Ans ☒ A. acquisition of the body of facts with full understanding
- ☒ B. to provide knowledge to the learners
- ☒ C. to equip the learners with the ability of reflective thinking
- ☒ D. acquisition of facts and information

Question Type : MCQ
Question ID : 4335763406
Option 1 ID : 43357613621
Option 2 ID : 43357613622
Option 3 ID : 43357613623
Option 4 ID : 43357613624
Status : Answered
Chosen Option : C

Section : Part III

Q.13 If in a certain code, 'ABCD' is written as 24 and 'EFGH' is written as 1680, then how is

1 'IJKL' written in that code?

- Ans ☒ A. 11880
- ☒ B. 11240
- ☒ C. 7920
- ☒ D. 5940

Question Type : MCQ
Question ID : 4335764820
Option 1 ID : 43357619277
Option 2 ID : 43357619278
Option 3 ID : 43357619279
Option 4 ID : 43357619280
Status : Answered
Chosen Option : A

ing is NOT a function of central banks?

2

- Ans ☒ A. Issuing currency
- ☒ B. Setting interest rates
- ☒ C. Regulating commercial banks
- ☒ D. Managing fiscal policy

Question Type : MCQ
Question ID : 4335764424
Option 1 ID : 43357617693
Option 2 ID : 43357617694
Option 3 ID : 43357617695
Option 4 ID : 43357617696
Status : Answered
Chosen Option : D

Q.13 Six animals are standing in a circle facing the centre. Cat is between dog and rabbit.
3 Hen is in between the parrot and monkey. Dog is to the left of parrot. Then who is to the left of the rabbit ?

- Ans ☒ A. Cat
- ☒ B. Dog
- ☒ C. Monkey
- ☒ D. Hen

Question Type : MCQ
Question ID : 4335764926
Option 1 ID : 43357619701
Option 2 ID : 43357619702
Option 3 ID : 43357619703
Option 4 ID : 43357619704
Status : Answered
Chosen Option : C

Q.13 In the given letter series what letter will come in place of the question Symbol.
4 CAT, ECV, HFY, ?

- Ans ☒ A. LIC
- ☒ B. KLP
- ☒ C. LCI
- ☒ D. LJC

Question Type : MCQ
Question ID : 4335764870
Option 1 ID : 43357619477
Option 2 ID : 43357619478
Option 3 ID : 43357619479
Option 4 ID : 43357619480
Status : Answered
Chosen Option : D

5

wing is the most appropriate way to teach mathematics?

- Ans ☒ A. Find the gaps in learning and address them only
- ☒ B. Find the low performers and make them sit in the front row of the class
- ☒ C. Teach every student with the same approach
- ☒ D. Motivate the learners to develop their existing capabilities.

Question Type : MCQ
Question ID : 4335764782
Option 1 ID : 43357619125
Option 2 ID : 43357619126
Option 3 ID : 43357619127
Option 4 ID : 43357619128
Status : Answered
Chosen Option : B

Q.13 A pile of 10 books is 10 cm high. What is the thickness of each book?
6

- Ans ☒ A. 1 mm
- ☒ B. 100 mm
- ☒ C. 10 mm
- ☒ D. 25 mm

Question Type : MCQ
Question ID : 4335764711
Option 1 ID : 43357618841
Option 2 ID : 43357618842
Option 3 ID : 43357618843
Option 4 ID : 43357618844
Status : Answered
Chosen Option : B

Q.13 Who among the follwointg had not been involved in floating the idea of permanent
7 settlement for Bengal?

- Ans ☒ A. Alexander Dow
- ☒ B. Thomas Law
- ☒ C. Montgomery Martin
- ☒ D. Philip Francis

Question Type : MCQ
Question ID : 4335764360
Option 1 ID : 43357617437
Option 2 ID : 43357617438
Option 3 ID : 43357617439
Option 4 ID : 43357617440
Status : Answered
Chosen Option : A

8

ction of two integers, sign of the answer depends upon

- Ans ☒ A. Smaller number
- ☒ B. Their difference
- ☒ C. Their sum
- ☒ D. Greater numerical value

Question Type : MCQ
Question ID : 4335764689
Option 1 ID : 43357618753
Option 2 ID : 43357618754
Option 3 ID : 43357618755
Option 4 ID : 43357618756
Status : Answered
Chosen Option : D

Q.13 Choose the correct option to fill in the blank.
9 The Vernacular Press Act was passed in.....on the lines of the Irish Press Act.

- Ans ☒ A. 1878
- ☒ B. 1968
- ☒ C. 1887
- ☒ D. 1778

Question Type : MCQ
Question ID : 4335764458
Option 1 ID : 43357617829
Option 2 ID : 43357617830
Option 3 ID : 43357617831
Option 4 ID : 43357617832
Status : Answered
Chosen Option : A

Q.14 Which of the following is/are cold ocean current/currents?
0 (1) Alaska Current
(2) North Atlantic Drift
(3) West Wind Drift
Select the answer using the code given below:

- Ans ☒ A. 1 only
- ☒ B. 1 and 2 only
- ☒ C. 2 and 3 only
- ☒ D. 3 only

Question Type : MCQ
Question ID : 4335764395
Option 1 ID : 43357617577
Option 2 ID : 43357617578
Option 3 ID : 43357617579
Option 4 ID : 43357617580
Status : Answered
Chosen Option : B

s energy to do work?

1

Ans ☒ A. Fats and carbohydrates.

☒ B. Vitamin and minerals.

☒ C. Protein.

☒ D. All of these

Question Type : **MCQ**
Question ID : **4335764554**
Option 1 ID : **43357618213**
Option 2 ID : **43357618214**
Option 3 ID : **43357618215**
Option 4 ID : **43357618216**
Status : **Answered**
Chosen Option : **D**

Q.14 Where is Mumbai High located ?

2

Ans ☒ A. In Continental Shelf of Arabian sea

☒ B. In Western Coastal Plain

☒ C. In Western Ghat

☒ D. In Internal Plains of South

Question Type : **MCQ**
Question ID : **4335764623**
Option 1 ID : **43357618489**
Option 2 ID : **43357618490**
Option 3 ID : **43357618491**
Option 4 ID : **43357618492**
Status : **Answered**
Chosen Option : **A**

Q.14 We get the square of _____ number if we add first 11 odd numbers

3

Ans ☒ A. 11

☒ B. 12

☒ C. 5

☒ D. 13

Question Type : **MCQ**
Question ID : **4335764753**
Option 1 ID : **43357619009**
Option 2 ID : **43357619010**
Option 3 ID : **43357619011**
Option 4 ID : **43357619012**
Status : **Answered**
Chosen Option : **A**

4

tion instead of the question mark in the given question.

56 : 72 :: 132 : ?

- Ans ☒ A. 144
- ☒ B. 148
- ☒ C. 152
- ☒ D. 156

Question Type : MCQ
Question ID : 4335764837
Option 1 ID : 43357619345
Option 2 ID : 43357619346
Option 3 ID : 43357619347
Option 4 ID : 43357619348
Status : Answered
Chosen Option : B

Q.14 Rajeev is the Brother of Atul. Soniya is the sister of Sunil. Atul is the son of Saniya. Tell
5 how is Rajeev related to soniya?

- Ans ☒ A. Niece
- ☒ B. Son
- ☒ C. Brother
- ☒ D. Father

Question Type : MCQ
Question ID : 4335764901
Option 1 ID : 43357619601
Option 2 ID : 43357619602
Option 3 ID : 43357619603
Option 4 ID : 43357619604
Status : Answered
Chosen Option : B

Q.14 Dyslexia is associated mainly with difficulties in-----.
6

- Ans ☒ A. speaking and hearing
- ☒ B. reading
- ☒ C. hearing
- ☒ D. speaking

Question Type : MCQ
Question ID : 4335764573
Option 1 ID : 43357618289
Option 2 ID : 43357618290
Option 3 ID : 43357618291
Option 4 ID : 43357618292
Status : Answered
Chosen Option : A

,F and G are standing in a line.

- 7 (i) G is between A and E
(ii) F and A have one boy between them
(iii) E and C have two boys between them
(iv) D is immediate right of F
(v) C and B have three boys between them
Who is second from left?

Ans ☒ A. C
☒ B. G
☒ C. E
☒ D. A

Question Type : MCQ
Question ID : 4335764962
Option 1 ID : 43357619845
Option 2 ID : 43357619846
Option 3 ID : 43357619847
Option 4 ID : 43357619848
Status : Answered
Chosen Option : C

Q.14 The plants released water in the air through the process of _____.
8

Ans ☒ A. Transpiration
☒ B. Transportation
☒ C. Teleportation
☒ D. Photosynthesis

Question Type : MCQ
Question ID : 4335764640
Option 1 ID : 43357618557
Option 2 ID : 43357618558
Option 3 ID : 43357618559
Option 4 ID : 43357618560
Status : Answered
Chosen Option : A

Q.14 Name the fish that lives only in freshwater?
9

Ans ☒ A. Frogs
☒ B. Dolphin
☒ C. Whales
☒ D. Trout

Question Type : MCQ
Question ID : 4335764516
Option 1 ID : 43357618061
Option 2 ID : 43357618062
Option 3 ID : 43357618063
Option 4 ID : 43357618064
Status : Answered
Chosen Option : B

n as

0

Ans

✔ A. Pinna

✘ B. Cochlea

✘ C. Eardrum

✘ D. Hammer

Question Type : **MCQ**

Question ID : **4335764480**

Option 1 ID : **43357617917**

Option 2 ID : **43357617918**

Option 3 ID : **43357617919**

Option 4 ID : **43357617920**

Status : **Answered**

Chosen Option : **B**