

BSTET (Class 9-10)

**Previous Year Paper
(Math)**

31 Oct, 2025 Shift 1

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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

Q.3 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

Q.6 A solid has _____ 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

Q.9 Two equations in two 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

Q.12 Two circular cylinders 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

Q.15 Which of the following 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

Q.18

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

Q.21 ABCD is a quadrilateral 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

Q.24 If $x_1, x_2, x_3, \dots, x_n$ are 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

Q.27 here is a 10% discount 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

Q.30 If the median of the data 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

Q.33 Blackberry announced 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

Q.36 Which of the following 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

Q.39 The distance of the point 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

Q.42 What compound interest 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

Q.45 The polynomial equation $x(x + 1) + 8 = (x + 2)(x - 2)$ 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

Q.48 Which of the following 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

Q.51 Simran gets a discount 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

Q.54 The vertices of a triangle 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

Q.57 If the perimeter of a square is 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

Q.60 The coordinates of a point 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

Q.63 The pair of equations $x = 0$ 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

Q.66 For the equation $|x|^2 + |x| - 6 = 0$, 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

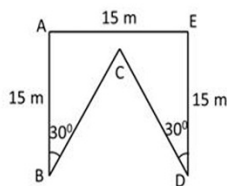
Question Type : MCQ
 Question ID : 4335765071
 Option 1 ID : 43357620281
 Option 2 ID : 43357620282
 Option 3 ID : 43357620283
 Option 4 ID : 43357620284
 Status : Answered
 Chosen Option : A

Q.69 A metallic cylinder of 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

Q.72 The abscissa of the point 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

Q.75 The father's age is six 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 cm^2 . The volume of the cylinder is

- Ans ☒ A. 3083
☒ B. 396 cm^3
☒ C. 1232 cm^3
☒ D. 1848 cm^3

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

Q.78 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

Q.81 The length of the diagonal 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 cm^3 . 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

Q.84 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

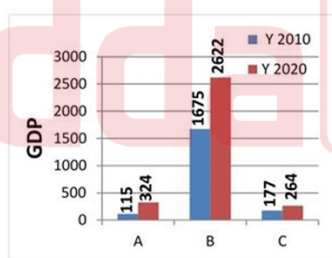
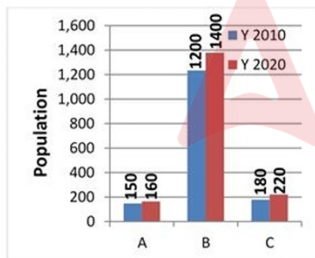
Question Type : MCQ
 Question ID : 4335765111
 Option 1 ID : 43357620441
 Option 2 ID : 43357620442
 Option 3 ID : 43357620443
 Option 4 ID : 43357620444
 Status : Answered
 Chosen Option : C

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

Q.87 A town has population 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

Q.90 Which of the following 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

Q.93 The diagonals of a rhombus 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

Q.96 On increasing the length 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

Q.99 The mean and mode of 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

Q.10 Which aspect of learning is to be considered while implementing child-centred 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"?

- 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

- 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

Q.10 Curriculum organization used for different concepts at the same class is:
5

- 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

Q.10 The knowledge of counseling skills is essential for teachers
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

Q.11 Read a piece of literature 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

Q.11 _____ cannot be adopted for effective classroom teaching.
4

- 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

Q.11 Different experiments 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

Q.12 An assessment technique that allows students to demonstrate their knowledge through 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

Q.12 Peer culture constitutes
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 been recommended in place of audio and video in Indian conditions?

- 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

Q.12 Summative evaluation 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

Q.12 What do we see in a traditional 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

Q.13 Which of the following 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

Q.13 Which among the following is the most appropriate way to teach mathematics?
5

- 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 following 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

Q.13 In addition and subtraction of two integers, sign of the answer depends upon
8

- 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

Q.14 Which nutrients give us 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

Q.14 Choose the correct option instead of the question mark in the given question.

4

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

Q.14 Seven boys A,B,C,D,E,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

Q.15 The outer ear is known 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**

