MODEL QUESTION PAPER

WITH ANSWERS OF MULTIPLE-CHOICE QUESTIONS

For

B.Sc. (Hons.) Semester-6

Paper: Mathematics

Paper: DSEMATH603B

By

Dr. Md. Moiz Ashraf

Head, P.G. Department of Mathematics,

Karim City College, Jamshedpur

Group-A
(Compulsory)
Each part of question carries 2 marks.

1.   Choose the correct answer   .

    (i)   Aryabhata called him a native of…

        (a) Gaya.

        (b) Pataliputra.

        (c) Takshashila.

        (d) none of these.

    (ii)   "Eureka" is the word associated with which Mathematician?

        (a) Leonhard Euler.

        (b) Archimedes.

        (c) Cauchy.

        (d) none of these.

    (iii)   Ramanujam died in the age of …

        (a) 62 years.

        (b) 22 years.

        (c) 52 years.

        (d) 36 years.

    (iv)   Traité de mécanique céleste is a five-volume treatise on celestial mechanics written by…

        (a) Pierre-Simon Laplace.

        (b) Leonhard Euler.

        (c) Joseph Fourier.

        (d) none of these.

    (v)   Which of the following is birthplace of Augustin-Louis Cauchy?

        (a) London, England.

        (b) Almeria, Spain

        (c) Rome, Italy.

        (d) Paris, France.

    (vi)   The first paper in graph theory is known to be published by …

        (a) Leonhard Euler.

        (b) Sir William Rowan Hamilton.

(c) Pierre-Simon Laplace.

(d) Archimedes.

(vii) Which mathematician is credited with the discovery of Green House Effect?

(a) Leonhard Euler.

(b) Pierre-Simon Laplace.

(c) Joseph Fourier.

(d) none of these.

(viii) Johann Carl Friedrich Gauss was …

(a) Greek mathematician.

(b) French mathematician.

(c) British mathematician.

(d) German mathematician.

(ix) "Philosophiæ Naturalis Principia Mathematica" was written by …

(a) Leonhard Euler.

(b) Pierre-Simon Laplace.

(c) Sir Isaac Newton.

(d) Joseph Fourier.

(x) Nationality of Pierre-Simon Laplace was…

(a) Italian.

(b) German.

(c) British.

(d) French.

Group-B
Answer any four questions.
Each question carries 5 marks.

2. Write short note on the contribution of C. P. Ramanujam in number theory.

3. Write short note on "Aryabhatiya" i.e. work of Aryabhatta.

4. Write short note on contribution of Euclid in geometry.

5. Write a short note on the solution by Leonhard Euler to problem of Seven Bridges of Königsberg.

6. Write short note on contribution of G W Liebnitz in calculus.

7.   Write in brief about the famous story associated with Archimedes.

8.   Write the contribution of G H Hardy in number theory.

9.   Write the contributions of Bernhard Riemann in different branches of mathematics.

Group-C
Answer any two questions
Each question carries 15 marks.

10.   Write in detail, about the contributions of Sir Isaac Newton in the field of Mathematics.

11.   Write in detail, about the contributions of G. W. Leibnitz in the field of Mathematics

12.   Write in detail, about the contributions of Pierre-Simon Laplace in the field of Mathematics

13.   Write in detail, about the contributions of Baron Augustin-Louis Cauchy in the field of Mathematics

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ANSWER TO OBJECTIVE TYPE QUESTION:

(i)   b

(ii)   b

(iii)   d

(iv)   a

(v)   d

(vi)   a

(vii)   c

(viii) d

(ix)   c

(x)   d