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Class X
Mathematics –Standard (041)
Sample Question Paper 2019-20

Max. Marks: 80   Duration : 3 hrs

General Instructions:

i) All the questions are compulsory.

ii) The question paper consists of 40 questions divided into 4 sections A, B, C, and D.

iii) Section A comprises of 20 questions of 1 mark each, Section B comprises of 6 questions of 2 marks each, Section C comprises of 8 questions of 3 marks each, Section D comprised of 6 questions of 4 marks each.

iv) There is no overall choice, however an internal choice has been provided in two questions of 1 mark each, two questions of 2 marks each, three question of 3 marks each, and three questions of 4 marks each. You have to attempt only one of the alternatives in all such questions.

v) Use of calculators is not permitted.

SECTION A

Q1 - Q10 are multiple choice questions. Select the most appropriate answer from the given options.

1	The decimal representation of $\frac{3}{2^2 \times 5}$ will	1
	a) terminate after 1 decimal place	
	b) terminate after 2 decimal places	
	c) terminate after 3 decimal places	
	d) not terminate	

1

SECTION - A

1. Study the table and answer the question given below.   1

Some comparative data on Haryana, Kerala and Bihar

State	Infant Mortality Rate per 1,000 live births (2016)	Literacy Rate % 2011	Net Attendance Ratio (per 100 persons) secondary stage (age 14 and 15 years) 2013-14
Haryana	33	82	61
Kerala	10	94	83
Bihar	38	62	43

Sources : Economic Survey, 2017-18 Vol. 2, Government of India;
National Sample Survey Organisation (Report No. 575)

Question : In comparison to Kerala which state has the highest infant mortality rate.

2. Why did Indians oppose the 'Simon Commission'?   1

3. Why was the Vernacular Press Act passed in 1878?   1

Or

Why was 'Gulamgiri' book written by Jyotiba Phule in 1871?   1

4. Which of the following revolutions is called as the first expression of 'Nationalism'?   1

A. French Revolution

B. Russian Revolution

C. Glorious Revolution

D. The Revolution of the liberals

5. How is GDP calculated?   1

Or

How is Public sector different from Private sector?   1

Central Board of Secondary Education

Table B (Blood Report of Patient X and Y)

Time of check	Blood Glucose ranges (mg/dL)	
	Patient X	Patient Y
Before breakfast (Fasting)	< 100	70 – 130
Before lunch, supper and snack	< 110	70 – 130
Two hours after meals	< 140	< 180
Bedtime	< 120	90- 15

4(a) Refer to Table B showing the blood report of the levels of glucose of patients X and Y. Infer the disease which can be diagnosed from the given data.　1

4(b) Identify the hormone whose level in the blood is responsible for the above disease.　1

4(c) Which one of the following diets would you recommended to the affected patient?　1

　　i) High sugar and low fat diet.

　　ii) Low sugar and high protein diet.

　　iii) High Fat and low fiber diet.

　　iv) Low sugar and high fiber diet.

4(d) Refer to the Table A and suggest the value of the mean blood glucose level beyond which doctor's advice is necessary:　1

　　i) 180 mg/dL

　　ii) 115 mg/dL

　　iii) 50 mg/dL

　　iv) 80 mg/dL

5　When we enter a dark room coming from outside, immediately the things inside the room do not appear clear to our eyes. This is because　1

　　i) pupils do not open at all in the dark.

　　ii) pupils take time to adjust.

　　iii) light travels slower in a dark room.

　　iv) pupils open very quickly in the dark.

OR

The phenomena of light responsible for the working of the human eye is

　i) reflection

　ii) refraction

　iii) power of accommodation

　iv) persistence of vision

　　　　1

3

CLASS: 10TH　　MATHEMATICS STANDARD SOLVED
SET 1 (CODE: 30/5/1)　SERIES: JBB/5

ALL CENTRE

The present age of a father is three years more than three times the age of his son. Three years hence the father's age will be 10 years more than twice the age of the son. Determine their present ages.

28. Use Euclid Division Lemma to show that the square of any positive integer is either of the form 3q or 3q + 1 for some integer q.

29. Find the ratio in which the y-axis divides the line segment joining the points (6, -4) and (-2, -7). Also find the point of intersection.

(OR)

Show that the points (7, 10), (-2, 5) and (3, -4) are vertices of an isosceles right triangle.

30. Prove that $\sqrt{\dfrac{1+\sin A}{1-\sin A}} = \sec A + \tan A$

31. For an A.P., it is given that the first term (a) = 5, common difference (d) = 3 and the nth term (a_n) = 50. Find n and sum of first n terms (S_n) of the A.P.

32. Construct a ΔABC with sides BC = 6 cm, AB = 5 cm and ∠ABC = 60°. Then construct a triangle whose sides are $\dfrac{3}{4}$ of the corresponding sides of ΔABC.

(OR)

Draw a circle of radius 3.5 cm. Take a point P outside the circle at a distance of 7 cm from the centre of the circle and construct a pair of tangents to the circle from that point.

33. Read the following passage and answer the questions given at the end :

Diwali Fair

A game in a booth at a Diwali Fair involves using a spinner first. Then, if the spinner stops on an even number, the player is allowed to pick a marble from a bag. The spinner and the marbles in the bage are represented in Figure - 8.

Prizes are given, when a black marbles is picked. Shweta plays the same once.

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