## Sample questions for Grade XI, Science

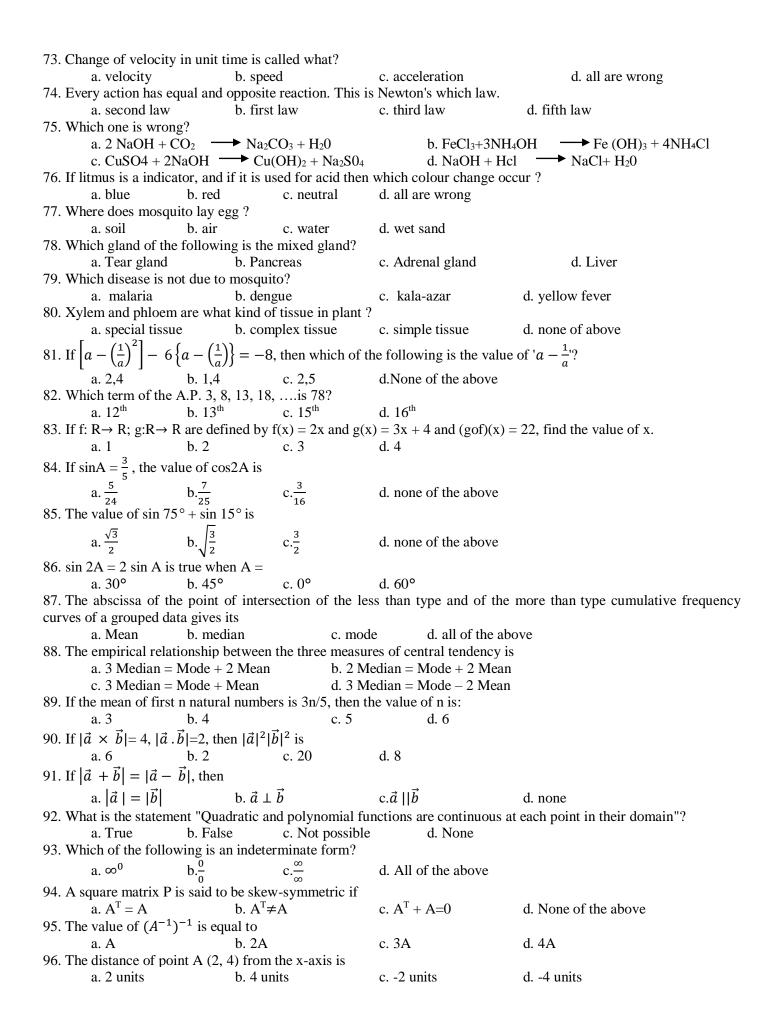
There are total 100 multiple choice questions. Out of 100 questions, 30 are from English and 20 are from C. Mathematics, 30 are from C. Science and 20 are from Additional Mathematics (Opt. Math) of Grade 10.

## Make your answer by blackening the appropriate bubble against each question in OMR sheet.

1. Synonym of the wor	d 'credible' is		
a. authentic	b. debtor	c. borrower	d. insolvent
2. The antonym of the	word 'humid is		
a. wet	b. dry	c. hot	d. damp
3. Neither of students.			
a. is	b. are	c. has	d. had been going
4. More than half the d	raindistilled		
a. has	b. has been	c. had	d. had been
5. Which of the follow:			
a. I love being			lriving my car
	reading my book.	d. I adore bei	ng looked at.
6. A mosquito is flying			
a. inside	b. through	c. over	d. on
	e with the correct use of		
	we arrived, the movie al		
	we arrived, the movie ha		
	we arrived, the movie w		
-	we arrived, the movie ha	•	
·	with you or do you w	_	
a. me coming	b. me to come	c. that I come	d. that I'll come
9. "Reeta has finished	her work, now she is	home."	
a. going	b. going to	c . going to the	d. going towards the
10. While Nepal has ea	rned record revenue this	year, well	
a. it still lag	b. it still lags	c. it lag still	d. it lags still
11. Let him watch TV,	?		
a. will you		c. shall he	d. will he
12. Which of the follow	wing is an example of a s	subordinating conjunction	n?
	b. And c. Alth	nough d. Or	
_	able in the supermarket.		
What is the word cla			
a. Noun	3	c. Verb	d. Adverb
	morning. I've got a lot	to do.	
	completes the sentence?		
a. had better	b. should	c. might	d. could
15. ISagu	ına in town a few days a		_
a. meet	b. met	c. meeting	d. meets
16. Perhaps she			
	b. going to	c. goes d. goi	ne
	ımbini. How!		
a. exciting	b. excited	c. excitable	d. excites
	_	said, 'I am reading a boo	
	he was reading a book.		s reading a book.
	I am reading a book.	d. He says that	t he is reading a book.
19. A person who hates			
a. misogamist	b. misogynist	c. masochist	d. misanthrope
	Mondays, Wednesda	•	
a. at	b. in c. on	d. from	
21. The baby slept	. ~	<b>-</b>	1 **
a. Sadly	b. Soundly	c. Bitterly	d. Helpfully

22. Neither the teach	er nor the students			•		
a. Is	b. Are c. '					
	o that I couldn't					
	b. interest				interested	
	e used in the given sente	ence. "You a	re always work	king on your	laptop."	
<ol> <li>a. Present ind</li> </ol>	efinite tense		b. Present per	fect tense		
c. Present cor	ntinuous tense		d. Present per	fect continuo	ous tense	
25. You should not _	back with	your teacher.				
	b. talks c. l		d. tall	ced		
26. Erica likes to go	to the cinema noon	n.				
a. At			d. By			
27. What is the prepo	osition in the sentence:		•	ge."		
	b. Across		c. Bridge		Не	
	if heto me for hi	s misbehavio				
				give anolog	izes	d. commandobeys
29 None of us had	buses b. punish tickets cance	elled	<b>c.</b> 101 <sub>2</sub>	ы сарогод	1203	a. communaoocys
a. their	b. our	onea.	c. his	d. her		
	lowing is in passive voi		c. ms	d. Her		
	ng stare at.		him driving n	w car		
	er reading my book.					
			_			
	(A) = 60, n(B) = 80 and		10, the value of			
	b. 20	c. 30		d. 40		
	d by the chords are equa			1		
	b. Twice		c. Thrice	a.	none	
33. The formula for	S.P without VAT is	AT.	C D			
a. $\frac{5.P.WLRVAT}{(1.00+VAT)^{10}}$	$\frac{s.P.wth\ VA}{(100-VAT)}$	<u>41</u>	$C.\frac{S.P.}{(1.00+WAT)^{0/2}}$	d. None		
34 The compound i	0 (100– $VAI$ ) nterest on the sum of m	onev in 2 ve	100+ <i>VAI )</i> % are at the rate o	of 5% ner and	num ic	
41 <i>P</i>	41P 4	1 <i>P</i>	41 <i>P</i>	n 570 per am	iuiii is	
$a.{400}$	$b.\frac{41P}{300}$ $c.\frac{4}{3}$	00	$d.{100}$			
	a new scooter for Rs 2			ne sold it to	her friend A	njali at 10% per year
compound depreciat	ion. How much did Anj	ali pay for th	e scooter?			
a. Rs. 1,70,0	00 b. Rs. 1,70	,100	c. Rs. 1,70,20	0 d.	Rs. 1,70,300	
36. If the cost of an	article with VAT is Rs.	4,746 and w	ithout VAT is	Rs. 4,200. T	he VAT rate i	S
a. 11%		13%	d. 14%			
37. A field is in a s	hape of rhombus. The		the field are 35	50m and 240	m respectivel	y. What is the area of
field in hectare? (1 h	•	C			1	
a. 4.0 hectar		ares	c. 4.2 hectares	s d.	4.3 hectares	
	ar cone height 4cm and					
	b. 47.14 cn				. None	
	k and $\sum f = 15$ , find the		c. 20.32 cm		. 1 (0110	
a. 440	b. 460	value of K.	c. 480	h	None	
	$^{4}y - x^{2}y^{3}$ and $2x^{3}y -$	22,2 23		u.	Tione	
	• / \					
a. xy 41. The root law of i		c. (x-y)	u. an			
		n				
$a. \sqrt[n]{a^m} = a$	$b.\sqrt[n]{a^m} = a$	$a^{\overline{m}}$	$c.a^m = b^n$	d.	None	
42. The value of (3)	$\sqrt{5} - 4\sqrt{2}$ )(2 $\sqrt{5} + 3\sqrt{2}$	(a) is				
$a.6 \pm \sqrt{10}$	$b.6 - \sqrt{10}$	,	$c.7 + \sqrt{10}$	d	$9 + \sqrt{10}$	
	gle is equal to half of the				)   VIO	
a. on the san		none	c. between sa	-	d. both	<b>,</b>
			c. between sa	ine paranei	u. bon	I
	gles of a cyclic quadrila		a Car	mnlata tum	d Man	•
	entary b. Supplem		c. Co	mplete turn	d. None	U
_	circumference of a circ			. d 1 .	.1 T	.!had one!-
a. Circum ar	•	semi angle	_	-	d. Inscr	_
	l standing at a distance	of 50m from	a tree observe	es the angle of	or elevation of	the top of the tree to
be 45°. The heig				1 ~		
a. 50m	b. 50.5m	c. 51m		d. 51.5m		

47. What percent of observations are there above $Q_3$ of a. 25% b. 50% c. 60%	a data? d. 75%
48. Two parallelograms have equal area if they are a. On the same base b None	c. Between same parallel d. Both
49. If two arcs of a circle subtend equal angles at the co	•
a. Unequal b. Equal	c. Doesn't have a relation d. None
c.124	
50. The probability scale of any event E is a. $0 < P(E) < 1$ b. $1 < P(E) < 0$ c. $0 \le$	$P(E) \le 1$ $d.1 \le P(E) \le 0$
51. The acceleration due to gravity is zero at:	- (-)
a. centre of the earth b. poles	c. sea level d. the equator
52. A hydraulic garage lift is based on:	
a. Pascal's law b. Law of floatation	· · ·
53. Which of the following is a non-renewable source	<del></del>
a. Coal b. Wood c. Biogas	d. Wind energy
54. Which of the following is the specific heat capacity	
	. 2100 J/kg/°C d. 2200 J/kg/°C
55. The image formed by a convex lens is always:	
$\mathcal{E}$	and diminished
	ual and magnified
56. On what principle a transformer is based?	
a. Electro-magnetic induction	b. Motor effect
c. Mutual induction	d. Magnetic effect
57. The d-block elements are also called	
<b>C</b>	nsition elements d. alkaline earth metals
· · · · · · · · · · · · · · · · · · ·	s. Out of the given necessary conditions, which one is not
required?	
	Iron catalyst d. high temperature
59. Plaster of paris is a salt of	
a. calcium b. copper c. sodium	d. potassium
60. What In an exothermic reaction:	
a. heat is evolved b. heat is absorbed	c. addition d. neutralization
61. What is the valency of gold?	1.4.0
a. 1 b. 2 c. 2 and 3	d. 1, 3
62. What is the functional group of alcohol?	4
a. –OH b0- c. CH <sub>2</sub>	d. – CHO
63is a biodegradable substance.	
a. detergent b. soap c. plasti	d. chemical fertilizer
64. In how many times does a silkworm larva moult?	
a. 2 times b. 3 times	c. 4 times d. 5 times
65. Which gland is also called the master gland?	
• • • • • • • • • • • • • • • • • • • •	nd c. Parathyroid gland d. Adrenal gland
66. Which chamber of heart is largest?	
a. Right atrium b. Left atrium	c. Right ventricle d. Left ventricle
67. The two chromatids of a chromosome are held together.	
a. telomere b. secondary constriction	c. centromere d. primary constriction
	celled organism that forms in multiple fissions called?
a. Shell b. Cell c. Cyst	d. Nematocyst
69. In F <sub>2</sub> generation, the genotypic ratio of pure tall, hy	
a. 3:1 b. 2:1:2	c. 1:2:1 d. 1:3
70. The fastest spinning planet is:	
a. Jupiter b. Saturn c. Uranus	d. Nepture
71. What is the melting point of nichrome?	
a. 900°C b. 1400° c. 1800°C	d. 1000°C
72. The power of lens is -2D, its focal length is:	
a2 m b. 0.5 m c0.55 cm	d0.50 m



97. If  $O(\frac{p}{3}, 4)$  is the midpoint of the line segment joining the points P(-6, 5) and Q(-2, 3), the value of p is:

a. 
$$\frac{7}{2}$$
 b. -12 c. 4 d. -4

98. The ratio in which the line segment joining the points P(-3, 10) and Q(6, -8) is divided by O(-1, 6) is:
a. 1:3
b. 3:4
c. 2:7
d. 2:5

99. If  $E_1 = [(0,0), k_1]$  and  $E_2 = [(0,0), k_2]$  are two enlargements, the combined enlargement is given by

a. 
$$E = [(0,0), k_1 k_2]$$
 b.  $E = [(0,0), k_1 k_1]$ 

c.B.  $E = [(0,0), k_2 k_2]$  d. None of the above

100. The transformation matrix for reflection x- axis is

a. 
$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$
 b.  $\begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix}$  c.  $\begin{bmatrix} -1 & 0 \\ 0 & 1 \end{bmatrix}$  d.  $\begin{bmatrix} -1 & 0 \\ 0 & -1 \end{bmatrix}$ 

	ANSWER KEY - SCIENCE								
1. a	2. b	3. a	4. b	5. d	6. c	7. b	8. b	9. a	10.b
11.a	12.c	13. b	14.a	15.b	16.a	17.a	18.a	19.b	20.c
21.b	22.b	23.a	24.c	25.a	26.a	27.b	28.c	29.b	30.d
31.c	32.a	33.a	34.a	35.b	36.c	37.c	38.b	39.c	40.b
41.a	42.a	43.d	44.b	45.d	46.d	47.a	48.d	49.b	50.c
51.a	52.a	53.a	54.a	55.d	56.a	57.c	58.a	59.a	60.a
61.d	62.a	63.b	64.c	65.a	66.d	67.c	68.c	69.c	70.a
71.b	72.d	73.c	74.c	75.b	76.b	77.c	78.b	79.c	80.b
81.a	82.d	83.c	84.b	85.b	86.c	87.b	88.a	89.b	90.c
91.b	92.a	93.d	94.c	95.a	96.b	97.b	98.c	99.a	100.b