

ANSWER KEY

.....¹st YEAR HIGHER SECONDARY EXAMINATION ..March. 2020

PART-I/II/III

SUBJECT: ...Electronics...Service Technology....

CODE NO:

VERSION: Q.

.....60..... SCORES

.....2..... HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
1.		$\bar{A}$	1	1
2.		G	1	1
3.		clipper	1	1
4.		glicker	1	1
5		Total internal reflection	1	1
6.		De-Morgan's Law	1x1=2	2
7.		Logic circuit of DFF	1	
		Truth table	1	2
8.		Circuit of DFF	2	2
9.		Any four characteristics	1/2x4	2
10.		AM, FM 7MHz	1x2	2
11.		Four applications of radar	1/2x4	2
12.		Line regulation & Load regulation	1x2	2
13.		2 disadvantages	1x2	2
14.		Monostable multivibrator circuit	3	3
15		Non inverting amplifier ekt	2	
		Correct values of resistor	1	3
16.		TV camera tube structure	3	3
17		Name	1/2x2=1	
		uses	1x2=2	3
18		Distortion	1x2=3	3

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
19.		Any four features comparisons	1x4	4
20.		Block diagram of electronic exchange	4	4
21.		Block of handset	2	
		Explanation	2	4
22.		a. Integrator ckt	2	
		b. Ideal & practical responses	2x1=2	4
23.		a. Block diagram of cable distribution system	2	
		b. Any two antennas	2x2=2	4
24.		Number of flipflops	1	
		Logic diagram	3	
		Counting states	1	5
25.		Ckt of astable multivibrator using IC 555	3	
		Correct component values	2	5
26.		a. Series voltage regulator ckt	1	
		b. Working explanation	4	5
27.		• Diagram of moving coil microphone	3	
		• Explanation of working	2	5

ANSWER KEY

SECOND YEAR HIGHER SECONDARY EXAMINATION MARCH 2020

PART-III/III

SUBJECT: MATHEMATICS (Science) (HI)

CODE NO:

VERSION:

80... SCORES

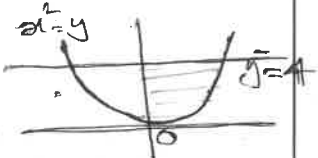
2. 1/2. HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
1	a	One - One	1	3
	b	$f(x) = 5x - 4$ $y = 5x - 4$ $5x = y + 4$ $x = \frac{y + 4}{5}$ $f^{-1} = \frac{y + 4}{5}$	1	
			1	
2	a	$\frac{\pi}{4}$	1	3
	b	$\tan^{-1}(1) + \cos^{-1}(\frac{1}{2}) + \sin^{-1}(\frac{1}{\sqrt{2}})$ $= \frac{\pi}{4} + \frac{\pi}{3} - \frac{\pi}{4}$ $= \frac{\pi}{3}$	1	
			1	
3	a	$\frac{\pi}{2}$	1	3
	b	$\tan^{-1} x + \tan^{-1} y = \tan^{-1} \left(\frac{x + y}{1 - xy} \right)$ $\tan^{-1} \frac{1}{2} + \tan^{-1} \frac{2}{11} = \tan^{-1} \left[\frac{\frac{1}{2} + \frac{2}{11}}{1 - \frac{1}{2} \times \frac{2}{11}} \right]$ $= \tan^{-1} \frac{15}{20}$ $= \tan^{-1} \frac{3}{4}$	1	
			1	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
4	a	4	1	3
	b	$a_{ij} = 2i - j$ $a_{11} = 1 \quad a_{21} = 3$ $a_{12} = 0 \quad a_{22} = 2$ $A = \begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 3 & 2 \end{bmatrix}$	1	
			1	
5	a	17	1	3
	b	$f(x) = 2x^2 - 1$ $\lim_{x \rightarrow 3} f(x) = 2 \times 3^2 - 1 = 17$ $f(3) = 17$ $\lim_{x \rightarrow 3} f(x) = f(3) = 17$ $\therefore f$ is continuous at $x=3$	1	
			1	
6	a	$f(x) = x^2 + 2x - 5$ $f'(x) = 2x + 2$	1	3
	b	$f'(x) = 0$ $2x + 2 = 0$ $2x = -2 \quad x = -1$ $(-\infty, -1), (-1, \infty)$ $f(x)$ is increasing $(-\infty, -1)$	1	
			1	
7		$y = \sqrt{x} \quad x = 25, \Delta x = 0.3$ $\Delta y = \sqrt{x + \Delta x} - \sqrt{x}$ $= \sqrt{25.3} - \sqrt{25}$ $= \sqrt{25.3} - 5$ $\sqrt{25.3} = 5 + \Delta y$ $dy = \left(\frac{dy}{dx} \right) \Delta x = \frac{1}{2\sqrt{x}} \times 0.3$	1	3

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		$= \frac{1}{2\sqrt{25}} \times 0.3 = 0.03$ $\therefore \sqrt{25 \cdot 3} = 5 + 0.03$ $= \underline{5.03}$		
8	i)	$P(A \cap B) = P(A) + P(B) - P(A \cup B)$ $= \frac{6}{11} + \frac{5}{11} - \frac{7}{11}$ $= \underline{\underline{\frac{4}{11}}}$	1	
	ii)	$P(A B) = \frac{P(A \cap B)}{P(B)}$ $= \frac{4/11}{5/11} = \underline{\underline{\frac{4}{5}}}$	1	3
9	a)	$(f \circ g)(x) = f(g(x))$ $= f(2x)$ $= (2x)^2 + 2$ $= \underline{\underline{4x^2 + 2}}$	1	
	b)	$a * b = \frac{ab}{4}$ $(a * b) * c = a * (b * c)$ $\frac{ab}{4} * c = a * \frac{bc}{4}$ $\frac{\frac{ab}{4} \cdot c}{4} = \frac{a \cdot \frac{bc}{4}}{4}$ $\frac{abc}{16} = \frac{abc}{16}$ * is associative	1	4

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
10	a b	$3A = \begin{bmatrix} 9 & 3 \\ 12 & 18 \end{bmatrix}$ $A^2 - 3A + I$ $= \begin{bmatrix} 2 & 1 \\ 4 & 6 \end{bmatrix} \begin{bmatrix} 3 & 1 \\ 4 & 6 \end{bmatrix} - \begin{bmatrix} 9 & 3 \\ 12 & 18 \end{bmatrix} + \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ $= \begin{bmatrix} 13 & 9 \\ 36 & 40 \end{bmatrix} - \begin{bmatrix} 9 & 3 \\ 12 & 18 \end{bmatrix} + \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ $= \begin{bmatrix} 5 & 6 \\ 24 & 23 \end{bmatrix}$	1 1 1 1	4
11	a b	5 $\text{Area} = \frac{1}{2} \begin{vmatrix} x_1 & y_1 & 1 \\ x_2 & y_2 & 1 \\ x_3 & y_3 & 1 \end{vmatrix}$ $= \frac{1}{2} \begin{vmatrix} 2 & -1 & 1 \\ 4 & 1 & 1 \\ 1 & 1 & 1 \end{vmatrix}$ $= \frac{1}{2} [2(0) - 1(4-1) + 1(4-1)]$ $= \frac{1}{2} [6]$ $= 3 \text{ sq. unit}$	1 1 1 1	4
12	a b	$3 \cos 3x$ $\frac{d}{dx} (2x + 3y) = \frac{d}{dx} \sin y$ $2 \times 1 + 3 \frac{dy}{dx} = \cos y \cdot \frac{dy}{dx}$ $(3 - \cos y) \frac{dy}{dx} = -2$ $\frac{dy}{dx} = \frac{-2}{(3 - \cos y)}$	1 1 1 1	4

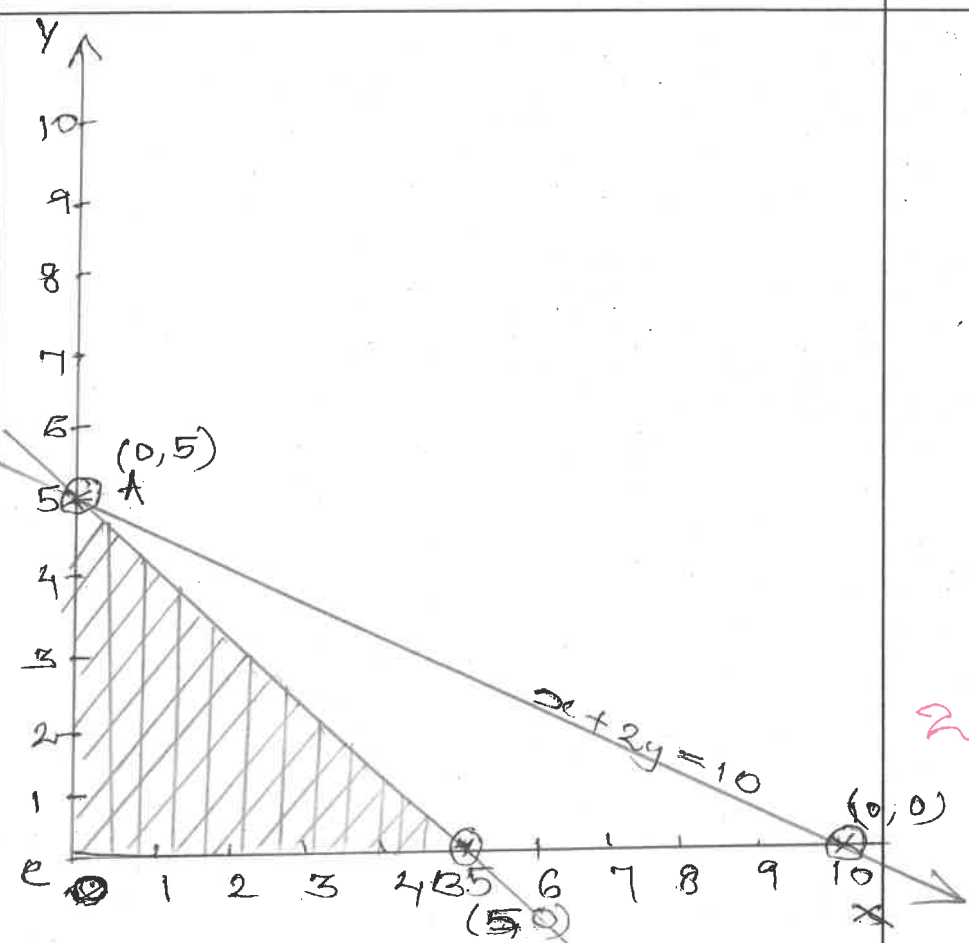
Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
13		$y = x^{\cos x}$ $\log y = \log x^{\cos x}$ $\frac{d}{dx} \log y = \cos x \cdot \frac{d}{dx} \log x$ $\frac{1}{y} \frac{dy}{dx} = \cos x \cdot \frac{1}{x} + \log x \sin x$ $\frac{dy}{dx} = x^{\cos x} \left[\frac{\cos x}{x} + \log x \sin x \right] + C$	1 1 1 1	4
14	a b c d	b. $\log x + C$ c. $\frac{1}{a} \tan^{-1} \frac{x}{a} + C$ d. $\sin^{-1} \frac{x}{a} + C$ a. $\log \sec x + C$	1 1 1 1	4
15		$y = x^2 \quad x = \sqrt{y}$ $\text{Area} = 2 \int_0^4 \sqrt{y} \, dx$  $= 2 \left[\frac{y^{3/2}}{3/2} \right]_0^4$ $= \frac{4}{3} \times 8 = \frac{32}{3}$	1 2 1	4
16	a b	$3\hat{i} + 5\hat{j} - 4\hat{k}$ $\vec{AB} = \vec{OB} - \vec{OA}$ $= 5\hat{i} - 6\hat{j} + \hat{k} - (3\hat{i} + 5\hat{j} + 4\hat{k})$ $= \cancel{2\hat{i}} - 11\hat{j} - 3\hat{k}$ $= \underline{\underline{2\hat{i} - 11\hat{j} + 5\hat{k}}}$	1 1 1 1	4

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
17	a b	$1, -2, -1$ $\frac{x-x_1}{x_2-x_1} = \frac{y-y_1}{y_2-y_1} = \frac{z-z_1}{z_2-z_1}$ $\frac{x-1}{3-1} = \frac{y-0}{4-0} = \frac{z-2}{6-2}$ $\frac{x+1}{4} = \frac{y}{4} = \frac{z-2}{4}$	1 1 1	4
18	i ii	$k + 3k + 4k + k + k = 1$ $10k = 1$ $k = \frac{1}{10}$ $P(1 < x < 5) = 3k + 4k + k$ $= 8k$ $= \frac{8}{10}$	1 1 1	4
19	a b	$2 + y = 5$ $y = 5 - 2 = 3$ $2x + 2 = 8$ $2x = 6$ $x = 3$ $A = \begin{bmatrix} 2 & 4 \\ 6 & 8 \end{bmatrix}$ $A' = \begin{bmatrix} 2 & 6 \\ 4 & 8 \end{bmatrix}$ $A + A' = \begin{bmatrix} 4 & 10 \\ 10 & 16 \end{bmatrix}$ $\frac{1}{2}(A + A') = \begin{bmatrix} 2 & 5 \\ 5 & 8 \end{bmatrix}$	1 1 1 1	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		$A - A' = \begin{bmatrix} 0 & -2 \\ 2 & 0 \end{bmatrix}$ $\frac{1}{2} (A - A') = \begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix}$ $A = \frac{1}{2} (A + A') + \frac{1}{2} (A - A')$ $\begin{bmatrix} 2 & 4 \\ 6 & 8 \end{bmatrix} = \begin{bmatrix} 2 & 5 \\ 5 & 8 \end{bmatrix} + \begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix}$	1 1 1	6
20	A	$A = \begin{bmatrix} 3 & 7 \\ 2 & 5 \end{bmatrix} \quad B = \begin{bmatrix} 8 & 8 \\ 7 & 9 \end{bmatrix}$ $A^{-1} = \frac{\text{adj } A}{ A } = \frac{\begin{bmatrix} 5 & -7 \\ -2 & 3 \end{bmatrix}}{1}$ $B^{-1} = \frac{\text{adj } B}{ B } = \frac{\begin{bmatrix} 9 & -8 \\ -7 & 6 \end{bmatrix}}{-2}$ $AB = \begin{bmatrix} 67 & 87 \\ 47 & 61 \end{bmatrix}$ $(AB)^{-1} = \frac{\text{adj } AB}{ AB } = \frac{\begin{bmatrix} 61 & -87 \\ -47 & 67 \end{bmatrix}}{-2}$ $B^{-1} \cdot A^{-1} = \frac{-1}{2} \begin{bmatrix} 9 & -8 \\ -7 & 6 \end{bmatrix} \begin{bmatrix} 5 & -7 \\ -2 & 3 \end{bmatrix}$ $= \frac{-1}{2} \begin{bmatrix} 61 & -87 \\ -47 & 67 \end{bmatrix}$ $\therefore (AB)^{-1} = B^{-1} \cdot A^{-1}$	1 1 1 1 1	6

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
21	a	$\int \log x \, dx = \int \log x \cdot 1 \, dx$ $= \log x \cdot x - \int \frac{1}{x} \cdot x \, dx$ $= \log x \cdot x - x + C$	1	
	b	$I = \int_0^{\pi/2} \frac{\sin^5 x}{\sin^5 x + \cos^5 x} \, dx \quad \text{--- (1)}$ Also $I = \int_0^{\pi/2} \frac{\sin^5(\pi/2 - x)}{\sin^5(\pi/2 - x) + \cos^5(\pi/2 - x)} \, dx$ $I = \int_0^{\pi/2} \frac{\cos^5 x}{\cos^5 x + \sin^5 x} \, dx \quad \text{--- (2)}$ $(1) + (2) = 2I = \int_0^{\pi/2} \frac{\sin^5 x + \cos^5 x}{\sin^5 x + \cos^5 x} \, dx$ $2I = \int_0^{\pi/2} 1 \, dx$ $2I = [x]_0^{\pi/2}$ $2I = \pi/2$ $I = \pi/4$	1	6
22	a	3	1	
	b	$y = e^x + 1$ $y' = e^x$ $y'' = e^x$	1	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
	c.	$y'' - y' = e^n - e^n = 0$ y is a solution $\frac{dy}{e^m} = \frac{n+1}{2-y}$ $\int (2-y) dy = \int (n+1) dm$ $2y - \frac{y^2}{2} = \frac{n^2}{2} + 2n + C$	1 1 1	6
23	a) $\vec{a} \cdot \vec{b} = 1 - 1 - 1 = \underline{\underline{-1}}$ (i) $\theta = \cos^{-1} \left[\frac{\vec{a} \cdot \vec{b}}{ \vec{a} \vec{b} } \right]$ $= \cos^{-1} \left[\frac{-1}{\sqrt{3} \cdot \sqrt{3}} \right]$ $= \cos^{-1} \left[\underline{\underline{-\frac{1}{3}}} \right]$ b $Area = \vec{a} \times \vec{b} $ $\vec{a} \times \vec{b} = \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ 1 & -1 & 3 \\ 2 & -1 & 1 \end{vmatrix}$ $= \hat{i}(20) - \hat{j}(-5) + \hat{k}(-5)$ $= 20\hat{i} + 5\hat{j} - 5\hat{k}$ $ \vec{a} \times \vec{b} = \sqrt{20^2 + 5^2 + (-5)^2}$ $= \underline{\underline{\sqrt{450}}}$ $Area = \underline{\underline{\sqrt{450}}} \text{ sq. u}$	1 1 1 1 1	6	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score								
		 $x + 2y \leq 10, \quad 0 \leq 10$ $3x + 3y \leq 15 \quad 0 \leq 15$ <table data-bbox="341 1375 1099 1843"><tr><th>Corner Points</th><th>Value of z, $z = 3x + 2y$</th></tr><tr><td>A (0, 5)</td><td>10</td></tr><tr><td>B (5, 0)</td><td>15 $\rightarrow$ Maximum</td></tr><tr><td>C (0, 0)</td><td>0</td></tr></table> Maximum of z is 15 at B (5, 0)	Corner Points	Value of z , $z = 3x + 2y$	A (0, 5)	10	B (5, 0)	15 $\rightarrow$ Maximum	C (0, 0)	0	2	6
Corner Points	Value of z , $z = 3x + 2y$											
A (0, 5)	10											
B (5, 0)	15 $\rightarrow$ Maximum											
C (0, 0)	0											

ANSWER KEY

Second..... YEAR HIGHER SECONDARY EXAMINATION March. 2020

PART-III/III

SUBJECT: COMPUTER SCIENCE H.I..

CODE NO:

VERSION: R

60..... SCORES

..... HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
1		a) *		1
2		b) LIFO		1
3		d) Javascript		1
4		c) DL		1
5		b) SCRIPT		1
6		a) Tuple		1
7		b) ASC		1
8		c) -php		1
9		b) e-mail		1
10		b) Trademark		1
11.		i) static memory allocation ii) dynamic memory allocation Any one with explanation - 2 mark	1 1	2
12.		Definition Any two example 1+1 = 2 mark	2	2
13.		Definition Any example / POP or Push give 2 mark		2
14		<TR> - Table Row Creation <TD> - Table Data Any example - 2 mark	1 1	2

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score														
15		i) Number ii) String iii) Boolean Any two give 2 mark	1+1	2														
16		i) Attribute - The columns of a relation ii) Degree - Attributes in a relation any one with example give 2 mark	1 1	2														
17		i) Database Administrator ii) Application programmers iii) Sophisticated Users iv) Naive users any two give 2 2 mark	1+1	2														
18		a) <table border="1"> <tr> <th>Reg No</th> <th>Name</th> </tr> <tr> <td>300</td> <td>Mary</td> </tr> <tr> <td>301</td> <td>Murali</td> </tr> <tr> <td>302</td> <td>Praveen</td> </tr> <tr> <td>303</td> <td>Sonu</td> </tr> </table> b) <table border="1"> <tr> <th>Reg No</th> <th>Name</th> </tr> <tr> <td>301</td> <td>Murali</td> </tr> </table> Any one give 2 mark Partially correct give 1 mark	Reg No	Name	300	Mary	301	Murali	302	Praveen	303	Sonu	Reg No	Name	301	Murali	1+1	2
Reg No	Name																	
300	Mary																	
301	Murali																	
302	Praveen																	
303	Sonu																	
Reg No	Name																	
301	Murali																	
19		i) Create - Creation of table ii) Alter - change the structure iii) Drop - Drop the table	1+1	2														
20		chr(), strlen(), strpos(), strcmp() Any two give 2 mark	1+1	2														
21		Integer, Float/Double, String, Boolean Any two give 2 mark	1+1	2														
22		Orphaned memory block Forgetting to delete, Failing to execute delete, Assigning The address returned by new operator Definition / or reason Give 2 mark	1 1+1	3														

3/4

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
23		Definition of polymorphism Compile time polymorphism and run time polymorphism	1 1+1	3
24		Structure of algorithm logic correct	2 1	3
25		Use of Body tag Any two attributes Any example give 3 mark	1 1+1	3
26		Structure of HTML Use of list Correctness	1 1 1	3
27		alert(), isNaN(), toUpperCase(), toLowerCase(), charAt(),	1+1+1	3
28		for, while any example	1+1=2 1	3
29		Definition - any example	2 1	3
30		i) Indexed Arrays ii) Associative arrays iii) Multidimensional Array	1+1 1+1+1	3
31		dhse.kerala.gov.in - edistrict.kerala.gov.in keralamvd.gov.in any three web site name give 3 mark	1+1+1	3
32		Definition of AI	3	3

1/8 SY-67

ANSWER KEY

SECOND YEAR HIGHER SECONDARY EXAMINATION MARCH 2020

PART-IV/III

SUBJECT: HISTORY... [SPECIAL SCHOOL] [H-I]

CODE NO:

VERSION: Q.

S.O. SCORES

2.5 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
1	a	Dholavira	1	4
	b	S.N. Roy	1	
	c	Giotami - puta - Siri Satavani	1	
	d	Grantama Buddha	1	
2	1	(b) Rihla	1	4
	2	(b) Nayanars	1	
	3	(b) Abul Fasal	1	
	4	(b) Panchayat head	1	
3	*	Vascode Gama reaches Kerala coast - 1498	1	4
	*	Attingal Revolt [1721]	1	
	*	Marthanda Varma became the ruler of Travancore [1729]	1	
	*	Battle of Colachel [1741] [Ascending and descending Order]	1	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
4	a	paharias and santals — Rajmahal Hills	1	4
	b	Permanent Revenue settlement. — Cornwallis	1	
	c	Rani Lakshmi Bai — Jhansi	1	
	d	Guru Nanak — Sikh Guru	1	
5	a	Lothal	1	4
	b	Harappa [Locating on the map, each carry one mark]	1	
	c	Magadha	1	
	d	Sanchi	1	
6		climate change, — Excessive flood, — Deforestation, — Drying of river, — Aryans invasion. [Any two points]	1 1	2
7		Akbar Name and Badshah Nama	2	2
8		1798 Lord Wellesly introduced — Participants accept certain terms and conditions — state disbanded the military force — allow the British troops in the state.	2	2
9		Rani Lakshmi Bai, — Nana Sahib — Kunwar Singh Shah Mah — Tantia Toppe — Ran Sahib — Begum Hazrat Mahal, Ahmada [Any four]	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	2

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
10		The leader of Virashaiva Movement in Karnataka — Minister of a Chalukya king Virashnavas — Lingayats — worship of Shiva.	2	2
11		The literal meaning 'Perfect Crops of Mughal Period' — peasants were encouraged to cultivate it — eg: cotton and sugar cane.	2	2
12		Fifth report about the rural Bengal — Comprehensive economic report on Bengal — Includes petitions by Zamindars and ryots — Report of District Collectors' Views against English East India Company. [any two points]	2	2
13		It is small — pictographic — write from right to left — each alphabet represent a sound or a concept.	2	2
14		Sutta Pitaka — World is transient and constantly changing — It is soulless and is nothing permanent Dukkha is intrinsic — follow the path of moderation between severe penance and self indulgence — rise from worldly troubles. [any three points]	1 1 1	3

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
15		Examine its language — find out the authors and their perspective — its date — place of composition — kinds of Texts whether Manthras or Stories — understanding the historical importance.	1 1 1	3
16		Role of Rumours — Captain's Wright — Conspiracy to destroy the caste and religion of Hindus and Muslims — Chappathi distribution — Greased Catridge mixing of bone dust of cows and pigs in the flour —	1 1 1	3
17		Emerged in Tamil Nadu — devotees of Vishnu and Shiva — Travels — Pilgrimage centres — constructed Temples for devotees ^{devotees} — Protest caste system — Malayalam Divya Prabandham by Alvars —	1 1 1	3
18		Vijayanagara Empire — ^{its ruler} — period of Expansion and Consolidation — annexed Reichur doab — Strong military force estd — unparalleled peace and prosperity — construction of great Archi- tectures in the Empire.	1 1 1	3
19		Temple architecture — Royal gateways — dwarfed towers — central Shrine — reminder of the power of king — resources Mandapas — Pavilions — long Parallel Corridors —	1 1 1 1	4

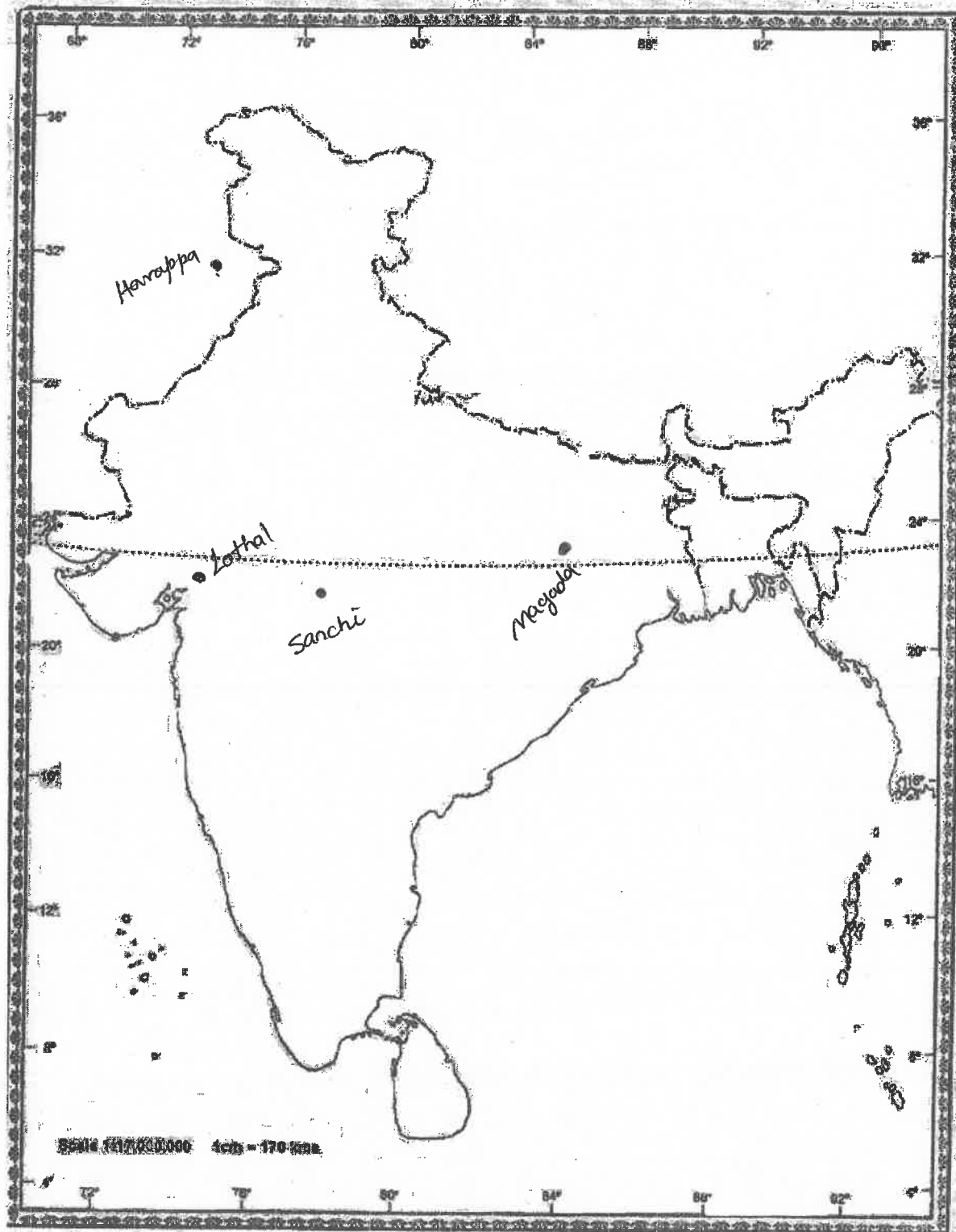
Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
20		women were raped, abducted, sold often many times over, forced to settle down to a new life with strange and unknown circumstances — Deeply traumatised — began to develop new family bond — Indian and Pakistan govt's were insensitive to the human relationship.	2 2	4
21		faintly engraved letters — may be damaged or letter missing — It is not easy to understand the exact meaning of the words — Specific to a particular Place or time mentioning ^{only} the political and economic importance — not the problems of commoners.	2 2	4
22		stood for abolition of superstition and caste distinction — persuaded people to take western education — Commercial and Industrial Pursuits — famous saying 'One caste, One religion and One God for man' — In 1888 consecrated a Siva idol at Aruvippuram — SNDP — Atmopadesa Satakam — Daiva-desakam —	2 2	4
23		Five Tinnais — geographical features — Kuningi (Forest area) — Mullai (Agricultural land) — Palai (dry area) — Marutham (wet land) — Naital (Coastal area)	2 2	4

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
24		Born in 973 in Uzbekistan — well versed in several languages — He reached with Sultan Muhammad to Ghazni — reached India — contact with the Sanskrit scholars of India — Kitab-ul-Hind — socio-economic — cultural status of India described — detailed picture of Medieval India — Written in Arabic — Other features of Kitab-ul-Hind.	2½ 2½	5
25		24 th Tirthankara of Jainism — Principles entire world is animated — Non-injury to living things — especially to humans animals — plants — insects — Principle of Ahimsa — The cycle of birth and re-birth is shaped through Karma — Asceticism & penance — Monastic existence — Salvation.	2 2 1	5
26		Details about Imperial officials — Maghal Nobility — Information and Empire — Provincial Administration.	2 2 2	8
27		Details about Gandhian Ideals — Early struggles — Non-co-operation Movement — Aims of Non Co-operation Movement — Chauri-Chaura incident —	2 2 2 2	8

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
28		Details about Citadel — Lower Town — Great bath — Drainage system — Domestic architecture etc.	2 2 2 2	8



Q. No. 5



SME 67 History

ANSWER KEY

SECOND YEAR HIGHER SECONDARY EXAMINATION MARCH 2020

PART-I/II/III

SUBJECT: ..POLITICAL SCIENCE.....

CODE NO:

VERSION:

80 SCORES

2:30 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
1	4	Jawaharlal nehru	1	1
2		manipur	1	1
3		Dr Sukumar sen	1	1
4		Agriculture	1	1
5		Belgrade	1	1
6		medha patkar	1	1
7		Warsaw pact	1	1
8		SAFTA	1	1
9		V.V Giri	1	1
10		Riode Janeiro in Brazil	1	1
11		First Five year plan	1	4
		Dr K.N Raj	1	
		slow progress	1	
		Second five year plan	1	
		P.C mahalanobis	1	
		Rapid progress	1	2
12		European economic Community	1	
		ASSOCIATION of South East Asian nations	1	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
13		socialist party Communist party Swatantra party Bharatiya Jana Sangh	1 1 1 1	4
14		Definition of Cold War	2	2
15		Explanation of Soviet system	2	2
16		Traditional notions non-Traditional notions	1 1	2
17		Write about India's nuclear policy	3	3
18		Hegemony as Hard power Hegemony as structural power Hegemony as soft power	1 1 1	3
19		Political consequences Economic consequences Cultural consequences	1 1 1	3
20		Indira Vs the Syndicate presidential election	1 3	4
21		Define shock Therapy state controlled industrial complex almost collapsed The value of the rouble the Russian currency declined - The old system of social welfare was	1 1 1 1 1	4

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		<u>systematically Collapsed</u>		
22		European union France, Germany ASEAN Singapore, Indonesia	1 1 1	4
23		India Pakistan war Internal crisis of Eastern Pakistan	1 3	4
24		India is the second most Populous Country in the world. • India is also the worlds largest democracy. • India has participated in virtually all of the initiatives of the uni • India has role in the uni's peace keeping efforts.	1 1 1 1	4
25		Environmental issues in India		4
26		Introduction • To shape a nation • To established democracy • To ensure the development and well being of the entire Society	1/2 1 1/2 1 1/2 1 1/2	5

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
27		Explain Green Revolution merits • Ensure food sufficiency • Govt. offered variety seeds, fertilizers, better irrigation, highly subsidised prices. Demerits The Rich peasants and the large land holders were the major beneficiaries of the process moderate agricultural growth	1 2 2	5
28		Explain Kashmir issue Article 370, Internal dispute External disputes, Recent developments	1 1 1 2	5
29		Cold War Cuban missile crisis	3	5
30	1 2 3 4 5	1972 Activities of Dalits panthers, mostly entered around fighting increasing atrocities on Dalits in various parts of the state 1960, 1970 Maharashtra Dr BR Ambedkar	1 1 1 1 1	5
31		Introduction Economic Context Gujarat and Bihar movements Railway strike of 1975 Conflicts with Judiciary	1 1 1/2 1 1/2 1 1/2 1 1/2	7
32		Introduction - Decline of Congress and alliance politics	1 1 1/2	

- Political Rise of other backward classes.
- Communalism, Secularism
- Democracy
- New Economic policy

1½

1½

1½

$\frac{5}{5}$

7

33

Introduction

- Terrorism
- Human rights violation
- Global poverty
- migration
- Health Epidemics

2

1

1

1

1

1

7

1/5 87-71

ANSWER KEY

Second... YEAR HIGHER SECONDARY EXAMINATION March 2020

PART-I/II/III

SUBJECT: Business studies with functional management

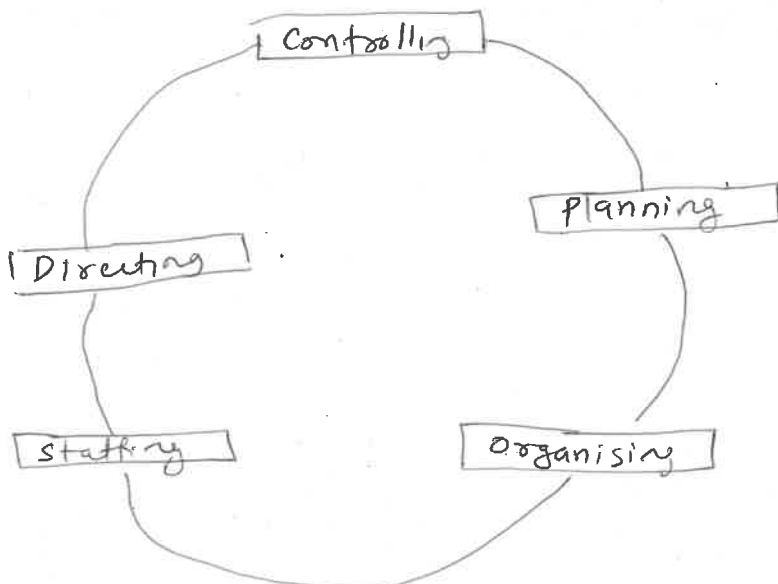
CODE NO:

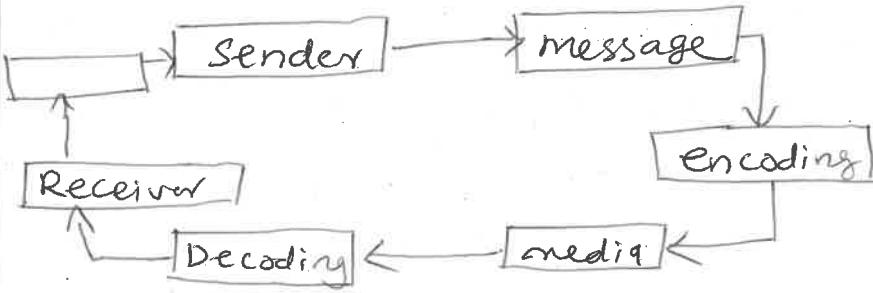
VERSION: R

80 SCORES

2:45 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
1		b) Values	1	1
2		b) Specialisation	1	1
3		b) Informal organisation	1	1
4		c) Co-operating	1	1
5		c) Rule	1	1
6		b) fixed Capital	1	1
7		c) delegation	1	1
8		a) Transfer	1	1
9		b) Debenture	1	1
10		a) Interview	1	1
11		1986	1	1
12		b) Trade Mark.	1	1
13		1) Division of work 2) Departmentation 3) Assignment of duties 4) Establishing authority relationship	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	2
14		Top level management Lower Level management	1 1	2

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
15		1) Planning focuses on achieving objectives 2) Planning is pervasive	1 1	2
16		a) Transfer c) Promotion	1 1	2
17		Product, Price, Place, Promotion	$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2}$	2
18			1 1 1	3
19		any 3 principles Division of work, Discipline, Unity of Command.	1 1 1	3
20		Any 3 examples for Current Assets. Stock, Cash in hand, Cash at bank Bills receivables	1 1 1	3

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
21		a) case study c) vestibule training d) Conferences	1 1 1	3
22		3 features of Informal organisation. ① personal interaction ② group norms ③ no specific direction	1 1 1	3
23		any 4 types of Plan. Objective, Policy, Rule, method	1 1 1 1	4
24		<u>Planning in Charge</u> a) route clerk b) Time and cost clerk <u>Production in Charge</u> b) Crang boss d) Speed boss	1 1 1 1	4
25		 Correct order give full score		4

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
26		Political environment Social environment Legal environment Economic environment	1 1 1 1	4
27		1) Consumer protection Act 1986 2) The contract Act 1982 3) The Sale of Goods Act 1955 4) The Trade Marks Act 1999 5) The Competition Act 2002 any 5 Act	1 1 1 1 1	5
28		Write any 5 Importance of the Controlling		5
29		a) Market regulator b) Small industry c) electronic scrip d) Commercial paper e) Speculator	1 1 1 1 1	5
30		any 5 differences between entrepreneurship and management	1x5	5
31		① Intelligence Tests ② Aptitude Tests ③ Personality Tests ④ Trade Tests ⑤ Interest Tests	1 1 1 1 1	5

Qn No.	Sub Qns	Answer key / value points	Score	Total Score
32		Various Communication Network ① chain ② wheel ③ circular ④ free flow ⑤ Inverted v. any four (4 marks)	2x2=4	8
33		any 4 factors with explanation.	4x2	8
34		Any four functions of marketing.	4x2	8

(For Hearing Impaired)

Answer Key and Scoring Scheme

Qn. No.	Value Points	Split Score	Total Score
1	(c) %	1	1
2	(b) short	1	1
3	(b) 5	1	1
4		1	1
5	(b) Radio	1	1
6	+	1	1
7	Uniform Resource Locator	1	1
8	(a) row	1	1
9	(a) WHERE	1	1
10	Aranmula Kannadi or Palakkadan Matta Rice	1	1
11	Integer, Floating point, Character, String	4 x ½	2
12	Definition; Example	1 + 1	2
13	int fun(int, int);	4 x ½	2
14	Use or example or explanation	1 + 1	2
15	To specify font characteristics of text. Face, Color, Size	1 + ½ + ½	2
16	To declare variable. Example	1 + 1	2
17	Correct placing of initialisation, test, update, body	4 x ½	2
18	Candidate, Primary, Alternate, Foreign	4 x ½	2
19	Fixed number of bytes. As per the size of data	1 + 1	2
20	Any two services	1 + 1	2
21	Definition or Explanation	2	2
22	Correct syntax, Explanation	2 + 1	3
23	Array declaration, Input, Output, Program Structure	½ + 1 + 1 + ½	3
24	Any two valid points of each	1½ + 1½	3
25	Ordered, Unordered, Definition. , , <DL>	1½ + 1½	3
26	Any three valid distinguishing points	1 + 1 + 1	3
27	(a) Bold (b) Italics (c) Underline	1 + 1 + 1	3
28	Number, String, Boolean; 123, "Hello", True	1½ + 1½	3
29	Explanation in two value points	1½ + 1½	3
30	DBA, Appln. Programmers, Sophisticated, Naïve (any 3) Role of each	1½ + 1½	3
31	Explanation or Illustration of each	1½ + 1½	3
32	DDL, DML, DCL. Explanation of each	1½ + 1½	3
33	(a) <TR>, <TH>, <TD>. Purpose of each or example (b) Merging of cells in a row / column	1½ + 1½ = 3 1 + 1 = 2	5
34	(a) CREATE TABLE, Use of proper data types and col defs. (b) (i) INSERT INTO Book VALUES (.....); (ii) SELECT * FROM Book; (iii) SELECT * FROM Book WHERE Pub="SCERT";	1 + 1 = 2 ½ = ½ = 1 ½ + ½ = 1 ½ + ½ = 1	5
35	(a) Names of any 3 functional units; Explanation of each (b) Names of any 2 ERP packages; Explanation of each	1½ + 1½ = 3 1 + 1 = 2	5
Total			60 (20)