MTS EXAMINATION 2015 -16

QUESTION PAPER

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	Score : 400
Register No:	Time: 2 hrs

General Instructions

- 1. Candidates are supplied with an OMR Answer Sheet.
- 2. Answer the questions in the OMR Sheet by shading the appropriate bubble.
- 3. Shade the bubbles with black ball point pen.

Class: X

- 4. Each question carries four marks. One mark will be deducted for each wrong answer.
- 5. Use the space provided in the last page for rough work.

Read the passage and answer the questions from 1 to 4.

For many years, the continent Africa remained unexplored and unknown. The main reason was the inaccessibility to its interior region due to dense forests, wild life, savage tribals, deserts and barren solid hills. Many people who tried to explore the land could not survive the dangers.

David Livingstone is among those brave few who not only explored part of Africa but also lived among the tribals bringing them near to Social Milieu. While others explored with the idea of expanding their respective empires. Livingstone did so to explore its vast and mysterious hinterland, rivers and lakes. He was primarily a religious man and a medical practitioner who tried to help mankind with it. Livingstone was born in Scotland and was educated to become a doctor and priest. His exploration started at the beginning of the year 1852. He explored an unknown river in Western Luanda. However, he was reduced to a skeleton during four years of travelling. By this time, he had become famous and when he returned to England for convalescing, entire London along with Queen Victoria turned to welcome him. After a few days, he returned to Africa. He discovered the origin of the River Nile in 1866. He again suffered many discomforts. He became too sick and could not even walk. He lost contact with rest of the world that grew anxious to know his whereabouts. Ultimately it was Stanely, the American journalist, who found him after many efforts, but Livingstone had died in a tribal village in 1873. His body was brought to London and burried in Westminster with full houour.

- 1. Which of the following shows that Livingstone had become very famous?
 - A. Queen Victoria along with the people of London had come to meet him.
 - B. Queen Victoria arranged for the medical expenses.
 - C. The tribals were grateful to him for his medical expenses.
 - D. He was assigned the task of a priest although he was a medical professional.

2.	Why were people not aware to the existence of Africa?				
	A. It was inaccessible due to oceanic reefs				
B. Its territory was covered with dense forests					
	C. People outside the	e continent were cha	ased away		
D. Explorers were afraid of the risks Involved					
3.	. Synonym of the word "Exploration" is				
	A. Execution	B. Cultivation	C. Foundation	D. Discovery	
4.	Antonym of the work	d "Barren" is			
	A. Uncultivated	B. Fertile	C. Forest	D. Unlevelled	
5.	Change the voice.				
	I hate people staring	at me.			
	A. I hate being stared	d at.		B. I hate stared by people.	
	C. Staring at me by J	people is hated by m	ne.	D. I hate people being stared at.	
6.	In which part of the	sentence is the error	?		
	Doing his (a) / in the	e army (b) / he won	many awards (c) / fo	r exemplary service (d)	
	A. (a)	B. (b)	C. (c)	D. (d)	
7.	Passengers should be	etime fo	or the train.		
	A. by	B. on	C. about	D. in	
8.	Select the most appropriate phrasal verb to fill in the gap.				
	He from t	he competition at th	e last moment.		
	A. dropped off	B. dropped out	C. fell off	D. fell out	
9.	Choose the alternative	we which best expre	sses the meaning of	the given idiomatic expressions.	
	Cut a sorry figure:				
	A. to be defeated		B. make a poor sho)W	
	C. to give up an atter	mpt	D. keep silence		
10.	Choose the word opposite in meaning to the underlined one:				
	His dealings with the	e public are quite tra	ansparent.		
	A. witty	B. dishonest	C. opaque	D. verbose	

11.	If a rectangular piece of paper of dimensions $44 \text{cm} \times 20 \text{cm}$ is rolled to form a hollow cylinder of height 20 cm, then the radius of the cylinder is				
	A. 40 cm	B. 44 cm	C. 14 cm	D. 7 cm	
12.	. If the corner of a cube is cut off, write the number of corners of the remaining portion.				
	A. 3	B. 8	C. 10	D. 11	
13.	In the following figure	e, PQ BC. Then	x is equal to)	
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
	A. 8	B. 9.6	C. 5.6	D.10	
14.	Find the cube root of	0.000064			
	A. 0.08			D. 0.4	
15.	$(-1)^n + (-1)^{8n} = 0$, when 'n' is			
	A. any positive intege	r	B. any odd na	atural number	
	C. any even natural nu	ımber	D. any negative integer		
16.	On selling an article for ₹240, a trader loses 4%. In order to gain 6%, he must sell that article for				
	101				
	A. ₹275	B. ₹260			
C. ₹	A. ₹275	B. ₹260 D. ₹300			
	A. ₹275	D. ₹300	en the value of	f <i>x</i> is	
	A. ₹275 265	D. ₹300 .5° + Cos60°, th	en the value of C. 45°		
	A. ₹275 265 If tan <i>x</i> =Sin45° Cos4 A. 30°	D. ₹300 5° + Cos60°, th B. 60° ervations 26, 28	C. 45° 8, 31, 31, 33, <i>x</i>		
17.	A. ₹275 265 If $\tan x = \sin 45^{\circ} \cos 4$ A. 30° The median of the obs	D. ₹300 $5^{\circ} + \cos 60^{\circ}$, the B. 60° ervations 26, 28 of <i>X</i> is	C. 45° 8, 31, 31, 33, <i>x</i>	D. 60°	
17. 18.	A. ₹275 265 If $\tan x = \sin 45^{\circ} \cos 4$ A. 30° The median of the obsorder is 34. The value A. 33 If $4 \times x^2 + y^2 = 40$ and $x^2 = 40$	D. $₹300$ $5^{\circ} + Cos60^{\circ}$, the B. 60° ervations 26, 28 of x is	C. 45° 8, 31, 31, 33, <i>x</i>	D. 60° c, $x + 2$, 37, 39, 41 arranged in ascending D. 35	
17. 18.	A. $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	D. $₹300$ $5^{\circ} + Cos60^{\circ}$, the B. 60° ervations 26, 28 of x is	C. 45° 8, 31, 31, 33, <i>x</i>	D. 60° c, $x + 2$, 37, 39, 41 arranged in ascending D. 35	
17.18.19.	A. ₹275 265 If $\tan x = \sin 45^{\circ} \cos 4$ A. 30° The median of the obsorder is 34. The value A. 33 If $4x^2 + y^2 = 40$ and $x^2 + y^2 = 40$	D. ₹300 $5^{\circ} + \text{Cos}60^{\circ}$, the B. 60° ervations 26, 28 of <i>x</i> is	C. 45° 8, 31, 31, 33, <i>x</i> C. 34 value of $2x + \frac{1}{\sqrt{20}}$	D. 60° c, $x + 2$, 37, 39, 41 arranged in ascending D. 35	
17.18.19.	A. ₹275 265 If $\tan x = \sin 45^{\circ} \cos 4$ A. 30° The median of the obsorder is 34. The value A. 33 If $4x^2 + y^2 = 40$ and $x^2 + y^2 = 40$	D. ₹300 $5^{\circ} + \text{Cos}60^{\circ}$, the B. 60° ervations 26, 28 of <i>x</i> is	C. 45° 8, 31, 31, 33, x C. 34 value of $2x + C$ C. $\pm \sqrt{20}$ mial x^2-4x+1 ,	D. 60° C, $x + 2$, 37, 39, 41 arranged in ascending D. 35 y. D. $\pm \sqrt{2}$ then $\frac{1}{\alpha} + \frac{1}{\beta} - \alpha \beta$ is	
17.18.19.	A. ₹275 265 If $\tan x = \sin 45^{\circ} \cos 4$ A. 30° The median of the obsorder is 34. The value A. 33 If $4x^{2}+y^{2}=40$ and x^{2} A. ± 8 If α , β are the zeroes A. 3	D. ₹300 $5^{\circ} + \text{Cos}60^{\circ}$, the B. 60° derivations 26, 28 of <i>X</i> is	C. 45° 8, 31, 31, 33, x C. 34 value of $2x + \frac{1}{\sqrt{20}}$ nial x^2-4x+1 , C5	D. 60° C, $x + 2$, 37, 39, 41 arranged in ascending D. 35 y. D. $\pm \sqrt{2}$ then $\frac{1}{\alpha} + \frac{1}{\beta} - \alpha \beta$ is	

22. An electric bulb is connected to a 220 V generator. The current is 0.62 A. What is the power $\boxed{X \mid 3/8}$

	of the bulb?				
	A. 136.4 w	B. 220.62 w	C. 13.64 w	D. 354.83 w	
23.	Magnetic lines of force	e			
	A. cannot intersect at	all		B. intersect within the magnet	
	C. intersect only at no	orth and south p	oles	D. None of these	
24.	In washing machine,				
	A. Chemical energy is	s converted to	mechanical ene	ergy.	
	B. Electrical energy is	s converted to n	nechanical ener	rgy.	
	C. Chemical energy is	s converted to e	electrical energy	7.	
	D. Light energy is cor	nverted to mech	nanical energy.		
25.	$ZnO+C \longrightarrow Zn+CO$	O. In this reacti	on which is the	reducing agent ?	
	A. Zn	B. C	C. ZnO	D. CO	
26.	K				
	Na Ca				
	Mg In this activity se	eries which meta	ls are used for ge	etting high voltage ?	
	Al Zn				
	A. K, Na	B. Na, Mg	C K Zn	D. K, Al	
27.	Cinnabar (HgS) is hea	_		D. 15, 111	
	A. Hg	B. HgO	C. HgS ₂	D. HgO ₂	
28.	Which component is a	not seen in glor	nerular filtrate (?	
	A. Water	B. Glucose	C. Blood	D. Aminoacids	
29.		The doctor diag		Manu's fingers and face muscles have an acromegalic patient. Which hormone	
	A. Increase of Somatotropin		B. Decrease of Somatotropin		
	D. Increase of Thyrox	aine	D. Decrease o	of Thyroxine	
30.	The urine formed in e	ach kidney ente	ers into a long t	ube called	
	A. Ureter		B. Urinary bladder		
	C. Collecting duct		D. Bowman's	Capsule	
31.	Who was the leader o	f Vienna Congi	ress?		
	A. Napolean			D. Metternich	
32.		_		r the unification of Italy.	
22	A. Joseph Mazzini		C. Victor Em		
33.	of the German states j		•	der the initiative of Prussia in which most	
	A. Zollverein			D. Young Poland	

34.	The unification of Italy was completed in				
	A. 1870 B. 1873 C. 1875 D. 1890				
35.	Which of the following statement (s) is / are correct?				
	i) Unlike gender and religion, caste division is special to India.				
	ii) Caste system is based on the division of labour.				
	iii) Hereditary occupational division was sanctioned by rituals.				
	iv) Caste system was based on exclusion and discrimination against the 'out caste' groups.				
	A. (i) only B. (i) and (ii) only				
	C. (i) and (iii) only D. All the above				
36.	Assertion (A): Casteism paves the way for clash between people.				
	Reason (R): Political parties make use of castes for temporary gains.				
	Choose correct option:				
	A. Both 'A' and 'R' are correct. 'R' is the explanation for 'A'.				
	B. 'A' is false and 'R' is true.				
	C. Both 'A' and 'B' are wrong.				
	D. 'A' is true and 'R' is false.				
37.					
	A. Mahatma Gandhi B. Jawaharlal Nehru				
	C. Vinoba Bhave D. Dr. B.R. Ambedkar				
38.	Which rabi crop requires a cool growing season and bright sunshine at the time of ripening				
	A. Rice B. Maize C. Millets D. Wheat				
39.	Which one of the following National Waterways pass through Kerala?				
	A. N W - 1 B. N W - 2 C. N W - 3 D. N W - 4				
40.	C O R E stands for				
	A. Centralized Online Real-time Electronic.				
	B. Centre of Rural Employment.				
	C. Central Organisation of Real Employment.				
	D. Central Organisation for Regeneration of Electricity.				
41.	Telangana became the 29th state of India on:				
	A. 1 Jan 2014 B. 2 June 2014 C. 7 Dec 2013 D. 4 July 2014				
42.	India was declared "Polio free" on				
	A. 26 April 2014 B. 21 March 2014				
12	C. 29 November 2014 D. 11 February 2014 Which country was assented from C. 8 membership				
43.	Which country was saspended from G-8 membership A. Ghana B. Germany C. France D. Russia				
44.	Who among the lenders joined Ghandhiji in the champaran satyagraha held on April 10				
	1917?				
	A. Bal Gangadhar Tikk B. Subhash Chandra Bose				
	C. Rajendra Prasad D. None of these				

45.		ent the historic Lahore session of 1929 of Indian National
	Congress ? A. Pandit Jawaharlal Nehru	D. Dajandra Dragad
	C. Lala Lajapath Rai	B. Rajendra Prasad D. Pandit Mothilal Nehru
46.	What is the full form of UGC	D. I andit Woumar Nemu
7 0.	A. University grants commission	B. Universal grands commission
	C. University grants commettee	D. Universal grant committee
47.		D. Omversur grant committee
17.	A. Wide trade organisation	B. World Trade Organisation
	C. World trade Orientation	D. None of above
48.	Who was the last Governar Genera	
	A. Rajagopal Achari	B. Lord wavell
	C. Lord mount Batten	D. Lord Linlithgo
49.	Who was the founder of the pakistl	
	A. Iqbal B. Jinnab C. Ag	
50.	-	
	A. Edwin T. Holmes B. James Rit	
51.	Who called Gandhiji as law breake	s during salt sathyagraha.
	A. Lala Lajapath Rai B. Su	bhash Chandra Bose
	C. Sarojini Naidu D. No	one of these
52.	Who is the 1st Foriegn Recipient of	Bharath Rathna
	A. Gan Abdul Gafer Khan	B. Balagangathara Thilak
	C. CR Das	D. Gopala Krishna Gokhala
53.	Vienna is the capital of	
	A. Australia B. America	
54.	\mathcal{E}	
	A. Akbhar B. Jah	
	C. Krishna Dev Rayer D. As	
55.	Iquaza talls is located between whi	
	A. Argentina - Brazil B. Ch	1
<i>5.6</i>		land - Germany
56.		med leading men's cricketer of the world 2015 by wisden
	cricketers Almanac ? A. Kumar Sankakara B. Ma	shala Jayayardhan
		ahela Jayavardhan
57.	C. Muthayya Muralidharan D. No ICC T-20 World cup winner of 201	
37.	A. West Indies B. India	C. Australia D. South Africa
58.		f business - documents is done through
50.	A. EDI B. ERP	C. CAM D. CAD
59.	Primary source of cyber law in Ind	
٠,٠	A. IT Act 2000 B. IT Act 200	
60.	Which is the most driest place in Ir	
	A. Missoram B. Jaisalmar	
61.	Which is the norther most state cap	

	A. Channai	B. Srinagar	C. Imphal	D. Gandhi N	agar	
62.	In which year	, shivaji was entitled	ntitled as chatrapati shivaji?			
	A. 1656	B. 1672	C. 1674	D. 1679		
63.	How long ago did the Indus Civilisation begin?					
A. About 5,000 years ago B. About 2,000 years ago						
C. About 3,000 years ago D. About 4,000 years ago						
64.	Who was the 1	1st chairman of the c	onstituent Ass	embly of Indi	a ?	
	A. Dr. B.R An	nbedkar	B. Dr. Rajen	draprasad		
	C. Dr. B.N Ra	0	D. Jawahar 1	al Nehru		
65.	Whose butobio	ography is " ormayu	de Arakal''			
	A. Basheer	B. G. Snkara Kurup	C. Ch	erukad	D. Thakazhi	
66.	Who wrote the	e book "Pravasi"?				
	A. Kovilan	B. Thakazhi	C. Uroob	D. O.V. Vija	yan	
67.	The head quar	ters of the Internation	nal red cross i	s situated in		
	A. Vicnna	B. Hague	C. Paris	D. Ge	eneva	
68.	Who is known	as Desbandhu?				
	A. Raja Gopal	achari B. Ra	na Prathap	C. Gokale	D. C.R Das	
69.	9. Which of the following author is known as cherukachu?					
A. P. Sachidanandan B. Govinda Pisaradi						
	C. Sethumadh	avan D. P.V	/ Ayyappan			
70.	. Which city is known as windy city?					
	A. Chickago	B. Belgrade	C. Lo	ndon D. Be	ljium	
	Space for rough works					