

ATOMIC ENERGY EDUCATION SOCIETY, MUMBAI

AEES EXCELLENCE EXAMINATION - 2019

CLASS: VIII MARKS : 75
DURATION: 2 HOURS

Read the following instructions carefully before you answer the questions.

- 1. Answers are to be given on the OMR sheet provided to you.
- 2. There are 75 questions in this test.

Question number 1 to 10 are from English.

Question number 11 to 20 are from Mathematics.

Question number 21 to 35 are from Science.

Question number 36 to 50 are from Social Science.

Question numbers 51 to 55 are from Current affairs and

Question number 56 to 75 are from Mental Ability.

- 3. All the questions are compulsory.
- 4. Please read the instructions given on the OMR before marking the answers.
- 5. Rough work can be done anywhere in the booklet but not on the OMR or loose paper.

Rough pages are also provided at the end of the question paper.

- 6. Every correct answer will be awarded one mark. No negative mark for wrong answer.
- 7. Return only the OMR sheet to the invigilator at the end of the test. The test-booklet can be carried by the candidates after the exam.

Name:	
Class/Sec:	
Roll No.:	
UID Number:	
Student Sign:	
Invigilator's Sign:	

4	Choose the correct options to complete the sentence	•	
1	"The prize was given to the girl they said A who	ı stooa fi B	rst". whom
	C whose	D	that
	C Wildse	D	tilat
2	The choice is between glorious deathsh	ameful li	fe.
	A or	В	inspite of
	C rather	D	and
3	The train the platform an hour ago.		
	A could leave	В	has left
	C left	D	had left
4	Three of the words given below are wrongly spe	lt. Pick	the word with the correct spelling.
	A amature	В	amateur
	C amatuer	D	ameteur
_		c	
5	Pick the correct option that gives the meaning o	•	
	A Prevent	В	Doubt
	C Censure	D	Clarify
6	Pick the correct option that gives the antonym o	f the wo	ord 'Vigilant.'
	A Refined	В	Fixed
	C Exalt	D	careless
7	Choose the correct option that completes the se everything from the smallest of clues."	ntence	"Sherlock Holmes
	A deduced	В	deducted
	C inducted	D	dedicated
	- maactea	D	dedicated
8	Bigotry is deep-rooted in the psyche of India. Ch meaning of the word 'Bigotry.'	oose the	e word that gives the
	A Corruption	В	social injustice
	C deep materialism	D	religious intolerance
9	Pick the meaning of the expression 'Ad Interim'	from the	e options given below.
	A constantly	В	continually
	C from the beginning	D	in the meantime
10	Channel the manning of the world Dispusion life	ندم مطد	ana aiyaa halayy
10	Choose the meaning of the word 'Biennial'from	tne opti B	_
	A once every two months C twice a month		once every two years
	C twice a month	D	twice a year
11	Which of the following is true?		
	A 5/7 < 7/9 < 9/11 < 11/13	В	11/13 < 9/11 < 7/9 < 5/7
	C 5/7 < 11/13 < 7/9 < 9/11	D	5/7 < 9/11 < 11/13 < 7/9

possible if at least are given Q) Construction of quadrilateral must satisfy 2) Five independent elements are given	12					election. One got 6 mber of votes wer		votes and was elected by 600
Column 1 P) Construction of a quadrilateral is possible if at least Q) Construction of quadrilateral must satisfy R) A kite can be drawn if its R) A kite can be drawn if its R) A kite can be drawn if its R) A quadrilateral has PQRRSSAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		С	700				D	800
of a triangle P Q R S A 3 2 4 1 B 3 4 2 1 C 2 4 1 3 D 4 3 1 2 14 State T for true and F for false i) The square root of 0.9 is 0.3 ii) The square root of perfect square of n digits will have (n+1)/2 digits if n is odd iii) All numbers of a Pythagorean triplet is odd. iv) There are 200 natural numbers between 100² and 101². (i) (ii) (iii) (iv) A T F T F F B F T F T F C T T F F D F T T F D F T T F 15 Difference of two perfect cubes is 189. If the cube root of the smaller of the two numbers is 3, find the cube root of the larger number. A 4 B 6 C 8 D 20 16 Consider the following statements: I. Every rhombus is a kite. II. Every rhombus is a parallelogram. IV. Every rhombus is a parallelogram. IV. Every rhombus is a square. A I and III are correct. C All are correct. D III and IV are correct. T If a number x is 10% less than the another number y and y is 10% more than 125, then x is equal to?	13	Column 1 P) Construction of a quadrilateral is possible if at least Q) Construction of quadrilateral must satisfy					 Two unequal sides and included diagonals are given Five independent elements are given Four sides, four angles and two diagonals are given 	
A 3 2 4 1 B 3 4 2 1 C 2 4 1 3 D 4 3 1 2 14 State T for true and F for false i) The square root of 0.9 is 0.3 ii) The square root of perfect square of n digits will have (n+1)/2 digits if n is odd iii) All numbers of a Pythagorean triplet is odd. iv) There are 200 natural numbers between 100² and 101². (i) (ii) (iii) (iv) A T F T F B F T F C T T F F D F T T F D F T T F 5 Difference of two perfect cubes is 189. If the cube root of the smaller of the two numbers is 3, find the cube root of the larger number. A A 4 C 8 D 20 16 Consider the following statements: I. Every rhombus is a kite. II. Every rhombus is a a rhombus. III. Every rhombus is a parallelogram. IV. Every rhombus is a square. A I and III are correct. C All are correct. D III and IV are correct.			S) A quadr	ilateral has	S			
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then x is equal to?	17	If a	numher v	is 10% les	s than the	another numbers	, and	l v is 10% more than 125
	1/				s man me	another number y	anc	, y 13 10/0 HIOTE HIAH 123,
		_	-				В	140.55
C 143 D 150		С	143				D	

18	If z	/(z + 15) = 4/9, then the value of 'z' is		
	Α	11	В	12
	С	13	D	14
19	If 3: A C	1Q + 1Q3 = 502. Find the value of the digit Q 9 6	B D	7

20 Statement S: If a side of square is tripled, it's area becomes 9 times of the original area.

Reason R: Area of square is directly proportional to it's side.

- A Both S and R are correct and R is correct explanation for S.
- B S is correct but R is incorrect.
- C both are correct but R is not correct explanation of S.
- D Both are incorrect.
- 21 Some green seeds were soaked in water overnight . A few seeds floated in water and the other sank down. The floating seeds were sown in pot 'X'. The sunken seeds were divided into 2 two parts and sown in 'Y' and 'Z' pots respectively. Same soil sample were used in all 3 pots and same amount of water was given regularly. In pot 'Y' some cowdung was added and in pot 'Z' urea was added. Which of the following will be observed after 10 days?
 - (i) Lot of growth in 'Z' with replenishment of all the nutrients
 - (ii) Lot of growth in 'X' with replenishment of all the nutrients
 - (iii) Lot of growth in 'Y' with replenishment of all the nutrients
 - (iv) No growth in 'X'

A (i) and (ii) B (i) and (iv) C (iii) and (iv) D (ii) and (iii)

22 Four children -Achu, Kichu, Michu and Chachu were suffering from the following diseases-Tuberculosis. Measles, Typhoid and Malaria respectively. Which of them could be administered with antibiotics to cure his disease?

A Achu and Kichu

C Kichu and Michu

D Michu and Chachu

23 Sohan was heating a material. He observed that it was not catching fire, not getting melted and not getting deformed. The material could be

A Acrylic B PVC C Wool D Melamine

24 Seema burnt a substance and collected the ash in a test tube. She added some water to that test tube and tested it with litmus paper. She observed that red litmus paper turned blue . Which of the following could be the burnt substance?

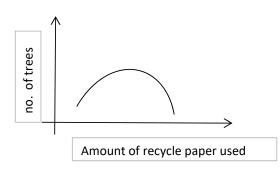
A Carbon B Sulphur C Phosphorous D Magnesium

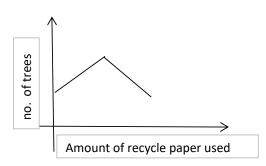
25 Four fuels X,Y,Z and R of 500 g,2 kg, 250 g and 4 kg were taken respectively. These fuels produced 25000kJ,20000kJ,50000kJ and 50000kJ of energy respectively. Which among the following show desending order of their calorific values?

- 26 Different component of petroleum are separated by fractional distillation. What is the correct sequence of fractions obtained in the fractionalizing column from top to bottom?
 - A Petroleum gas, gasoline, lubricating oil
 - C gasoline, lubricating oil, Petroleum gas
- B Petroleum gas, lubricating oil, gasoline
- D lubricating oil, gasoline, Petroleum gas
- 27 If we use more recycled paper instead of fresh ones, which of the following graphs shows the results that would be obtained after a few years?

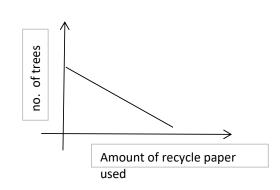
В

D





A Amount of recycle paper used



- 28 Four slides were observed by four students and noted the main features of each one as follows:-
 - (i) slide I---- disc shaped and no nucleus.
 - (ii) slide II----Single long branch and short branches were coming out of cell body.
 - (iii) slide III----slipper shaped with lots of hair like structures coming out of cell body.
 - (iv) slide IV-cells with cell wall and nucleus.

what would be the possible inference?

A slide I-WBC

С

- Slide II-Measles
- Slide III-Paramoecium
- Slide IV--- Check cell
- C slide I-WBC
 - Slide II-Measles
 - Slide III-Anoeba
 - Slide IV--- Onion cell

- B slide I-RBC
 - Slide II-Nerve cell
 - Slide III-Paramoecium
 - Slide IV--- Onion cell
- D slide I-WBC
 - Slide II-Nerve cell
 - Slide III-Amoeba
 - Slide IV--- Check cell
- 29 A child was chased by a dog,he got scared and started running very fast. Which hormone helped to initiate this action?
 - A Insulin
 - C Estrogen

- B Testosterone
- D Adrenaline

30 A frog laid eggs in distilled water kept in laboratory tank. The eggs hatched into tadpoles. But tadpoles died after few days without developing into adult frog.

What could be the possible reason among the following?

- A Tadpoles cannot grow into frog in laboratory under any circumstances
- C Distilled water do not have iodine which is necessary for metamorphosis
- B Distilled water do not have insulin which is necessary for metamorphosis
- D Tadpoles do not undergo metamorphosis in water, they need land
- 31 Which of the following object with same mass, exerts the maximum pressure on the floor?

A a cube with side of 5 cm

B a cone with diameter 5 cm

C a cuboid with sides 10 cm and 5 cm respectively

D a cylinder with diameter 6 cm

32 A vehicle is moving towards west .Neglect any force due to air. The frictional force on the vehicle by the road.

A must be exerted towards west

B must be zero

C must be exerted towards east and west

D must be towards east

33 Sound travels in air with a speed of 346 m/s. A child blows a whistle and hears its echo after 1 second. The sound of the whistle got reflected from a wall.

The distance between the child and the wall is

A 347 m

B 346 m

C 34.6 m

D 3.46 m

34 A magnetic compass is placed above a copper wire when there is no current flowing in the wire.

If a current of 15 A is flowing through the wire what change will you observe?

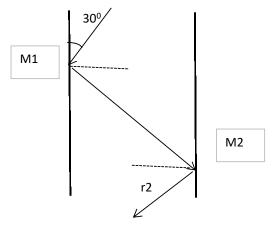
A copper wire melt

B the needle of compass deflects

C the compass will lose its magnetic property

D no change is observed

35 Two plane mirrors are kept parallel to each other. An incident ray making an angle of 30 degree with the mirror 1, reflected and falling on the mirror 2, as shown in the figure. The angle of reflection (r_2) in the mirror 2 by the same incident ray. What will be r_2 ?



A 30degree

B 60 degree

C 120 degree

D 150 degree

36 Tipu Sultan established a close relationship with the ______ in India and modernised his army with their help.

A British

B French

C Dutch

D Portuguese

37 Which Mughal Emperor blessed the "Revolt of 1857"?

A Bahadur Shah Zafar

B Mirza zafar

C Bhakt Khan

D Mir Qasim

38	Wh	o said the " Education means all round drawing out o	f the	best in child and man, body, mind and spirit"?
	Α	Rabindranath Tagore	В	Mahatma Gandhi
	С	Swami Dayanand Saraswati	D	Subash Chandra Bose
20	\A/b			
39		o supported the idea of "Self Respect Movement"? Mumtaz Ali	D	Dorivar
	A C	Rammohun Roy	B D	Periyar Pandita Ramabai
	C	Rammonun Roy	D	Panula Ramadai
40	Wh	ich place is associated with "Salt Satyagraha"?		
	Α	Ahmedabad	В	Chauri Chaura
	С	Dandi	D	Nagpur
41	Res	ources that are found everywhere are called		
		Localised Resources	В	Ubiquitous Resources
	С	Actual Resources	D	Potential Resources
42	N 4	a company in the community of		
42		nganese is an example of Ferrous Minerals	п	Non-formacia Minarala
			В	Non-ferrous Minerals
	С	Non-metallic Minerals	D	None of these
43	The	leading producers of Copper in the World are		·
	Α		В	Chile and Peru
	С	Chile and Venezula	D	Chile and Argentina
11	Tho	orium is found in large quantities in the		nds of Karala
77	Α	Mountain	— ^{за} В	River
	C	Monazite	D	None of these
			_	
45	Viti	culture refers to the cultivation of		
	Α	Silk Worms	В	Fish
	С	Flowers	D	Grapes
46	The	eillegal trade in humanbeing, particularly women and	l child	dren termed as .
	Α	Human Exploitation	В	Child Labour
	С	Bonded Labour	D	Human Trafficking
		and the second s		a Book though after the 2
4/		w many members are nominated to the Rajya Sabha l	· _	
	A	16	В	18
	С	12	D	15
48	Wh	ich Article of the Constitution, ensures the every pers	son h	as a fundamental right to
	be o	defended by a lawyer?		
	Α	Article-15	В	Article-22
	С	Article-21	D	Article-17
49		Scheduled Caste and Scheduled Tribes (Prevention or	of Att	rocities Act) was implemented in the
	Α	1989	В	1979
	C	1969	D	1999
50	C			
55			is be	en working for decade to address the problems
	or S A	anitation. Sulabh	В	Anup
	C	Milan	В D	Mitraa
5 1	-	ich of these sets a record with 'supersonic' parachute		
71	A	ESA	В	ISRO
	C	NASA	D	JAXA
	_	to the second		·

52	Visi A	on Document 2030 is long-term vision for the Department of Aviation	В	 Denartr	ment of F	lealth & h	uman welfare
	c	Department of Aviation	D			aw and or	
53	The	world's largest neuromorphic supercomputer which	was	switched	on for th	ne first tim	ne is:
33	Α	Stampede	В	JuQuee		ic mot tim	10 13.
	С	SpiNNaker	D	Vulcan			
54		earches from this IIT institute developed a Decision S	upp	ort Systen	n (DSS) to	o help	
		ximise LPG connection in BPL households.		UT 1/1			
	A C	IIT Kanpur IIT Guwahati	B D	IIT Khar IIT How			
	C	iii Guwanati	D	III IIOW	ıan		
55	Wh	ich IIT has launched an app 'Roshni' to help blind ider	ntify	notes?			
	Α	IIT Madras	В	IIT Roor			
	С	IIT Hyderabad	D	IIT Ropa	as		
56	Cho	pose the word which is different from the rest.					
	Α	Tuberculosis	В	Small po	ox		
	С	Cholera	D	Typhoid	d		
57	Cho	oose the word which is different from the rest					
	Α	Paper	В	Wool			
	С	Wood	D	Plastic			
58	BEG	GK : ADFJ :: PSVY : ?					
	Α	ROUX	В	ORUX			
	С	LQUT	D	LOQT			
59	wal	nore after coming out of the school walked 400 m straked 300m. straight and stopped there. Then, at is the minimum distance from School to Kishore? 700 m 200 m	aigh B D	t towards 100 m 500 m	South. A	fter he tur	rned to the left and
60	Find	d the correct code from the following: If $ D E L H I $ is	cod	ed as C C I	I D D, the	n BOMBA	Y is coded as
		A IA ATS /T	_	A B 4 D () (6			
	A C	AJMTVT MJXVSU	B D	AMJXVS WXYZA			

61	Wh	ich one will replace the question mark?	Γ				
				A 2	C ₄	E ₆	
				G ₃	I ₅	?	
				М ₅	09	Q ₁₄	
			_				l
	Α	L_{10}	В	K ₁₅			
	С	I ₁₅	D	K ₈			
62	Inse	ert the missing characters bedf?hj?l					
	Α	im	В	mi			
	С	in	D	jm			

8/14

63 Kanmani ranked sixteenth from the top and twenty ninth from the bottom among those who passed an examination. Six boys did not participate in the competition and five failed in it. How many boys were there in the class?

A 35 B 45 C 50 D 55

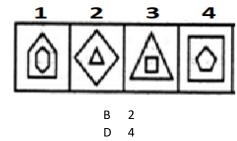
64 Find the missing term: 3, 12, 27, 48, 75, 108, ?

A 147 B 157 C 163 D 182

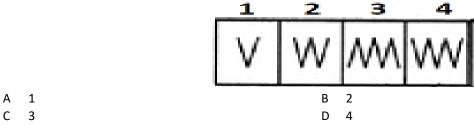
Arrange the given words in a meaningful logical order and then select the appropriate sequence from the alternatives provided below each questions.

1.0	Gold	2.Iron	3.Sand	4.Platinum	5.Diar	mond
Α	4,5,	1,3,2			В	2,4,3,5,1
С	3,2,	1,5,4			D	5,4,3,2,1

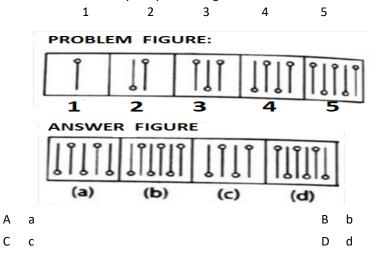
66 Out of the four figures marked (1), (2), (3) and (4), three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest.



- A 1 C 3
- 67 Out of the four figures marked (1), (2), (3) and (4), three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest.

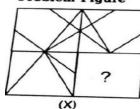


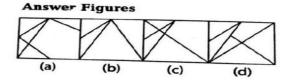
68 In the following question which consists of five figures as the problem figure followed by four figures marked (a), (b), (c) and (d) as the answer figures. Select the correct answer figure which will continue the series as established by the problem figures.



69 In the following question, complete the missing segment by selecting from the given alternatives, (a), (b), (c) and (d).

Problem Figure





Α а

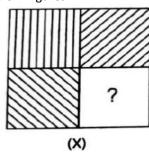
С

В b

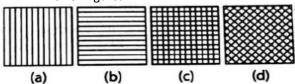
D d

70 Select a figure from amongst the Answer Figures which will continue the same series as established by the Problem Figures.

Problem Figures



Answer Figures:



С С

b В

D d

71 Identify the figure that completes the pattern.











1

2

3

В 2 D 4

72 Look at this series: 14, 28, 20, 40, 32, 64, ... What number should come next?

Α 52

Α 1

С 96 56

128 D

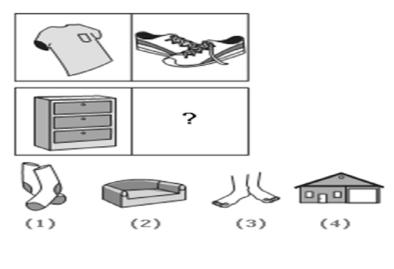
73 Look at this series: 9 11 33 13 15 33 17 , ... What number should come next?

19 33

33 35

С 33 19 D 19 21

74 Choose the picture that would go in the empty box so that the two bottom pictures are related in the same way as the top two are related.

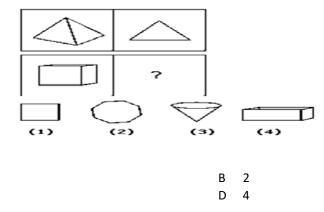


A 1 B 2 C 3 D 4

A 1

C 3

75 Choose the picture that would go in the empty box so that the two bottom pictures are related in the same way as the top two are related.



◊◊◊ ROUGH WORK

ROUGH WORK

ROUGH WORK

ROUGH WORK

AEES
AEES EXCELLENCE EXAM - 2019

CLASS-VIII					
ANSWER KEY					
Q.NO	CORRECT OPTION				
1	А				
2	D				
3	С				
4	В				
5	С				
6	D				
7	А				
8	D				
9	D				
10	В				
11	А				
12	В				
13	С				
14	В				
15	В				
16	А				
17	Α				
18	В				
19	QUESTION CANCELLED				
20	В				
21	С				
22	В				
23	D				
24	D				
25	В				
26	А				
27	С				
28	В				
29	D				
30	С				
31	С				
32	D				
33	В				
34	В				
35	В				
36	В				
37	А				
38	В				
39	В				
40	С				

41	В
42	Α
43	В
44	С
45	D
46	D
47	С
48	В
49	А
50	А
51	С
52	С
53	С
54	В
55	D
56	В
57	D
58	В
59	D
60	В
61	В
62	А
63	D
64	Α
65	С
66	В
67	С
68	В
69	В
70	В
71	D
72	В
73	Α
74	В
75	А