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# AEES PRT 2019 (English)





# परमाणु ऊर्जा शिक्षण संस्था ATOMIC ENERGY EDUCATION SOCIETY

अणुशक्तिनगर, मुंबई/Anushaktinagar, Mumbai

लिखित परीक्षा का प्रश्न-पत्र (भर्ती सूचना सं. प.ऊ.शि.सं./01/2019)

**QUESTION PAPER FOR WRITTEN EXAM (RECRUITMENT NOTICE NO AEES/01/2019)**

पद/Post – प्राथमिक अध्यापक/Primary Teacher

समय/Time – 2 Hours and 30 Minutes

दिनांक/Date – 29<sup>th</sup> September, 2019

अधिकतम अंक/Maximum Marks – 100

## Instructions

1. There are 100 MCQ questions in this paper. Each question carries 1 mark. There will be no negative marking for wrong answers.
2. Answer should be darkened / marked in the OMR answer sheet only. Answers should be written with the pen provided by AEES at the time of examination.
3. Use of any electronic gadget (e.g. calculator, mobile phone, Smart Watch etc) is not permitted, inside the examination hall.
4. In case a candidate has not signed the Attendance sheet / OMR answer sheet or the OMR answer sheet is not signed by the Invigilator, it will be dealt as a case of unfair means.
5. After the completion of the test, candidates MUST HAND OVER THE ORIGINAL OMR ANSWER SHEET TO THE INVIGILATOR available in the exam room/hall.
6. The candidates should ensure that the OMR answer sheet is filled up and handled carefully in accordance with the instructions given on the OMR answer sheet.

## निर्देश

1. इस प्रश्न-पत्र में कुल 100 बहु-विकल्पीय प्रश्न हैं। प्रत्येक प्रश्न 1 अंक का है। गलत उत्तर के लिए कोई अंक नहीं काटे जायेंगे।
2. उत्तर केवल ओएमआर उत्तर-पत्रिका में खाली गोनों/बुत्तों को पूरा भरकर दिया जाए। उत्तर केवल परमाणु ऊर्जा शिक्षण संस्था द्वारा प्रदान किए गए बॉल प्वाइंट पेन से दिया जाए।
3. परीक्षा कक्ष में किसी भी इलेक्ट्रॉनिक उपकरण (जैसे कैलकुलेटर, मोबाइल फोन, स्मार्ट कलाई घड़ी आदि) के प्रयोग की अनुमति नहीं है।
4. यदि उपस्थिति पत्रिका/ ओएमआर उत्तर पत्रिका पर अभ्यर्थी द्वारा हस्ताक्षर नहीं किया जाता है या ओएमआर उत्तर पत्रिका निरीक्षक द्वारा हस्ताक्षरित नहीं होगी तो इसे अनुचित तरीका का मामला माना जायेगा।
5. परीक्षा समाप्ति पर अभ्यर्थी को अपनी मूल ओएमआर उत्तर-पत्रिका परीक्षा कक्ष में उपस्थित निरीक्षक को सौंपनी है।
6. अभ्यर्थियों को सुनिश्चित करना है कि ओएमआर उत्तर पत्रिका पर दिए गये निर्देशों के अनुसार ओएमआर उत्तर-पत्रिका परीक्षा के दौरान सावधानीपूर्वक भरी और रखी जाए।

## अभ्यर्थी का विवरण/ Details of the candidate

अभ्यर्थी का नाम/Name of the Candidate:

अनुक्रमांक संख्या/Roll Number:

ओएमआर संख्या/OMR Number:

मुद्रित पृष्ठों की संख्या (इस पृष्ठ को छोड़कर)/No. of printed pages (excluding this page) – 09

- 1 करुण रस का स्थाई भाव क्या है?  
A रति  
C उत्साह  
B हास्य  
D शोक
- 2 'चाय' किस भाषा का शब्द है?  
A हिन्दी  
C अरबी  
B चीनी  
D तिब्बती
- 3 'मनमाना' में कौन सा समास है -  
A अव्ययीभाव  
C तत्पुरुष  
B कर्मधारय  
D बहुव्रीहि समास
- 4 'मीनाक्षी' का पर्यायवाची है -  
A सुंदरी  
C मछली  
B दुर्गा  
D लक्ष्मी
- 5 'जंगल' का पर्यायवाची है -  
A प्रमोद  
C कांतार  
B विश्रान्ति  
D दिव
- 6 निम्नलिखित में कौन सरस्वती का पर्यायवाची नहीं है-  
A वीणापाणि  
C पद्मा  
B महाश्वेता  
D भारती
- 7 'गुरु के समीप रहकर अध्ययन करने वाला' के लिए एक शब्द है  
A शिष्य  
C वियार्थी  
B आश्रमवासी  
D अन्तेवासी
- 8 चौपाई के प्रत्येक चरण में मात्राएँ होती हैं-  
A 11  
C 16  
B 13  
D 15
- 9 प्रेमचंद किस प्रवृत्ति के उपन्यासकार हैं?  
A आदर्शवादी  
C आदर्शोन्मुख यथार्थवादी  
B यथार्थवादी  
D यथार्थ उन्मुख आदर्शवादी
- 10 कवि का स्त्रीलिंग शब्द है -  
A कवयित्री  
C कवियित्री  
B कविनी  
D कवियनी
- 11 निम्न में से दलित आत्मकथा नहीं है -  
A अपने-अपने पिंजरे  
C तिरस्कृत  
B जूठन  
D मेरी असफलताएँ
- 12 पुस्तक से कौन सा विशेषण बनेगा -  
A पुस्तकालय  
C पुस्तकीय  
B पुस्तकें  
D पुस्तकों
- 13 हिंदी गद्य का जन्मदाता किसे माना जाता है?  
A प्रताप नारायण मिश्र  
C भारतेन्दु हरिश्चंद्र  
B महावीर प्रसाद द्विवेदी  
D बालकृष्ण भट्ट
- 14 पुरस्कार में कौन सी संधि है?  
A स्वर संधि  
C विसर्ग संधि  
B ध्वंजन संधि  
D दीर्घ संधि
- 15 'अमित' शब्द का विलोम है -  
A मुमित  
C परिमित  
B कुमित  
D दुमित



निर्देश(16-20): निम्नलिखित गद्यांश को पढ़कर पूछे गए प्रश्नों के सही विकल्प चुनिए।

लोकमान्य तिलक का कथन है – “मैं नर्क में भी पुस्तकों का स्वागत करूंगा, क्योंकि इनमें वह शक्ति है कि जहाँ वे होंगी वहाँ अपने-आप स्वर्ग बन जाएगा।” श्रेष्ठ पुस्तकें मनुष्य, समाज और राष्ट्र का मार्गदर्शन करती हैं। संसार के इतिहास पर दृष्टिपात करने पर हम देखते हैं कि संसार की अनेक महान विभूतियों पर किसी न किसी श्रेष्ठ पुस्तक का प्रभाव पड़ा। महात्मा गांधी, टालस्टॉय, अब्राहम लिंकन - सभी के जीवन में श्रेष्ठ पुस्तकों का महत्वपूर्ण योगदान था। लेनिन में क्रांति की भावना कार्ल मार्क्स के साहित्य को पढ़कर ही जागी थी। किसी भी जाति के उत्कर्ष या अपकर्ष का लेखा-जोखा उसके साहित्य से पता चलता है। गुप्त काल को भारतीय इतिहास का ‘स्वर्ण युग’ कहा जाता है क्योंकि उस काल में अत्यंत उत्कृष्ट पुस्तकों की रचना हुई। विचारों के युद्ध में पुस्तकें ही अस्त्र हैं क्योंकि पुस्तकों का हमारे विचारों पर गहरा प्रभाव पड़ता है तथा पुस्तकों के विचार ही समाज की काया पलट करते हैं। श्रेष्ठ पुस्तकें मनुष्य को पशु से देवता बनाती हैं, उसकी सात्विक वृत्तियों को जागृत करती हैं तथा उसे असत्य से सत्य की ओर, अंधकार से प्रकाश की ओर ले जाती हैं।

16. तिलक ने क्यों कहा कि वे नरक में भी पुस्तकों का स्वागत करेंगे?

- (A) नरक में पुस्तक पढ़ने का समय होगा (B) पुस्तकें मनुष्य को देवता बना देती हैं  
(C) पुस्तकों में नर्क को भी स्वर्ग बदल में बदलने की शक्ति है (D) अधिकतर पुस्तकें नर्क में ही ले जाती हैं।

17. श्रेष्ठ पुस्तकों का व्यक्ति पर क्या प्रभाव पड़ता है?

- (A) जाति का उत्कर्ष होता है (B) स्वर्ग में जाने का मार्ग पता चलता है  
(C) सात्विक वृत्तियाँ जागृत होती हैं (D) महान विभूति बनाता है

18. विचारों के युद्ध में पुस्तकें ही अस्त्र हैं अर्थात:

- (A) पुस्तकें सही मार्ग दिखाती हैं। (B) पुस्तकें अच्छा राष्ट्र हैं।  
(C) पुस्तकें सड़ने का सही तरीका सिखाती हैं। (D) पुस्तकें सदा विजयी होती हैं।

19. विभूति शब्द:

- (A) पुन्नित है (B) विशेषण है  
(C) विन्याविशेषण है (D) स्त्रीलिंग है

20. प्रस्तुत गद्यांश का उपयुक्त शीर्षक होगा:

- (A) जीवन में पुस्तकों का महत्व (B) नरक में पुस्तकें  
(C) श्रेष्ठ मनुष्य और पुस्तकें (D) पुस्तकें- एक झतरनाक अस्त्र

21 Give one word for each of the following expressions choosing from those given below each such expression. 'Study of mankind'

- A Pathology ~~B~~ philology  
C Physiology D anthropology

Question 22 and 23: Choose the appropriate option to fill-in the blank:

22 I always eat breakfast before \_\_\_\_\_ to school.

- A to go ~~B~~ going  
C went D gone

23 He was angry with his friend and told him that \_\_\_\_\_ with him.

- A he will not play B he does not play  
~~C~~ he would not play D he will be playing

24 Choose the correct spelling.

- ~~A~~ Lieutenant B Leftenant  
C Liftinanat D Lietnanat

Instructions for question no 25 to 28: Read the passage given below and answer the questions:

Mrs. Curtis said, "Make sure you write this assignment down, everyone. It's important." "Mrs. Curtis," Linda said, raising her hand. "I can't see the assignment clearly." Mrs. Curtis suggested, "Come up to the front of the room to copy it, Linda." Linda moved to the front of the room, copied the assignment into her notebook, and returned to her seat. When the class was over, Mrs. Curtis asked Linda to remain. "I'm anxious, Linda, because it seems you're having trouble seeing the board. Am I right?" "Sometimes," Linda admitted. "The school nurse will be checking everyone's vision tomorrow. You should probably tell her about it," Mrs. Curtis said.

- 25 Why does Linda move to the front of the room?  
 A She is blind  
☒ C She cannot see the board  
 B She cannot hear the teacher  
 D She has a doubt to clear
- 26 What does 'remain' mean in this text?  
 A To leave  
 C To be left over  
☒ B To stay back  
 D To be important
- 27 Which is a synonym for 'assignment'?  
☒ A Task  
 C Paper  
 B Note  
 D Speech
- 28 Which word describes Mrs. Curtis and her feelings?  
 A Unsympathetic  
☒ C Concerned  
 B Checking  
 D Insensitive

Question 29 to 37: Choose the appropriate option to fill-in the blank:

- 29 How is \_\_\_\_\_ fast going on?  
 A you're  
 C You  
☒ B your  
 D yours
- 30 Leaves \_\_\_\_\_ are green contain chlorophyll.  
 A that  
 C who  
☒ B which  
 D when
- 31 She showed \_\_\_\_\_ her homework.  
 A to her mother  
 C by her mother  
☒ B with her mother  
 D her mother
- 32 The awful accident occurred \_\_\_\_\_.  
 A three weeks past  
☒ C three weeks ago  
 B before three weeks  
 D three weeks before
- 33 Hey, Payal! Don't forget that the party \_\_\_\_\_ (to start) at 9'o clock.  
 A has been starting  
 C is starting  
☒ B has started  
 D starts
- 34 Sharan wants to lose 10 kilos. But he \_\_\_\_\_ no attempt to reach this aim.  
☒ A makes  
 C takes  
 B does  
 D gets
- 35 He went to the shop but he bought \_\_\_\_\_.  
 A anything  
 C everything  
☒ B something  
 D nothing
- 36 If I \_\_\_\_\_ one lakh rupees, I \_\_\_\_\_ some of it to charity.  
 A had / donated  
 C would have / would donate  
☒ B had / would donate  
 D would have / donated

- 37 I am not at all happy with the purchase but I had \_\_\_\_\_ choice.  
 A Few B little  
~~C~~ a little D a few
- 38 Choose the sentence with the right word order.  
 A Taran bought eleven yellow B Taran eleven amazing yellow tulips bought  
~~C~~ Taran bought eleven amazing yellow tulips D Taran eleven yellow amazing tulips bought
- 39 Choose the correct reported speech for: Stephanie: "I'm doing my homework now."  
~~A~~ Stephanie said that she was doing her B Stephanie said that she had been doing her  
 homework then. homework then  
 C Stephanie said that she was doing her D Stephanie said that she had been doing her  
 homework now. homework now
- 40 Choose the word with the correct spelling  
~~A~~ Demurrage B Demurage  
 C Demmurrage D Demurragge
- 41 Internal angle of a regular pentagon will measure (in degrees)  
 A 120 ~~B~~ 108  
 C 136 D 145
- 42 The HCF and LCM of two numbers are 4 and 60 respectively. These numbers could be  
 A 20 and 28 B 24 and 32  
~~C~~ 12 and 20 D 15 and 4
- 43 Next term in the series 4, 9, 25, 49, ...  
 A 81 B 144  
 C 100 ~~D~~ 121
- 44 What will be the value of A if the six digit number 111A05 is divisible by 9  
~~A~~ 1 B 2  
 C 3 D 4
- 45 Area of a square having perimeter equal to that of a rectangle having sides 10 cm and 6 cm will be  
 A 0.64 sq. m ~~B~~ 6400 sq. mm  
 C 60 sq. cm D 600 sq. cm
- 46 How many minutes in  $\frac{3}{5}$  of an hour?  
~~A~~ 36 B 40  
 C 48 D 32
- 47 A watch reads 4:30. If the minute hand points East, in what direction will the hour hand point?  
 A North B North-West  
 C South-East ~~D~~ North-East
- 48 If  $x : y = 1 : 2$ , find the value of  $(2x + 3y) : (x + 4y)$   
 A 3 : 4 B 5 : 6  
 C 7 : 11 ~~D~~ 8 : 9
- 49 Value of  $(17^3 - 12^3 - 5^3)$  will be  
~~A~~ 3060 B Zero  
 C 6030 D 9090



50 How many edges a regular polyhedron having 12 faces and 20 vertices will have

- A 32  
~~C~~ 30  
 B 34  
 D 28

51 Total surface area of a solid conical object having base diameter 10 cm and height 12 cm will be \_\_\_\_\_ sq. cm.

- ~~A~~ 65  $\pi$   
 C 25  $\pi$   
 B 96  $\pi$   
 D 90  $\pi$

52 The count of a certain breed of bacteria was found to increase at the rate of 2% per hour. Find the bacteria at the end of 2 hours if the count was initially 620000.

- A 624000  
 C 624360  
~~B~~ 624240  
 D 642360

53 Which of the following is not a factor of  $ax^2+by^2+bxy+axy$ ?

- A  $a+b$   
 C  $x+y$   
 B  $ax+by$   
~~D~~  $ab$

54 Sum of the infinite series  $49 + 0.3 \times 49 + 0.3 \times 0.3 \times 49 + 0.3 \times 0.3 \times 0.3 \times 49 + \dots$

- A 89  
 C 8989  
~~B~~ 98  
 D 70

55 How many digits will the number representing the expression  $2^{17} + 5^{16}$  will have

- A 15  
 C 17  
~~B~~ 16  
 D 18

56 If in two circles, arcs of the same length subtend angles 26 degrees and 91 degrees at the centre, find the ratio of their radii

- A 7:2  
 C 13:7  
~~B~~ 2:7  
 D 7:13

57 With respect to the circle  $x^2 + y^2 - 6x - 8y = 0$ , point (2, 3) is located

- A At the centre of the circle  
 C Inside the circle  
 B On the circumference of the circle  
~~D~~ Outside the circle

58 Equation of the straight line passing through points (2, 3) and (3, 2) is

- A  $2x + 3y = 5$   
 C  $3x + 2y = 5$   
~~B~~  $x + y = 5$   
 D  $x - y = 5$

59 The difference of squares of two natural numbers is 45. The square of the smaller number is four times of the larger number. Find the numbers.

- A 8 and 16  
~~C~~ 6 and 9  
 B 10 and 25  
 D 14 and 49

60 5 pencils and 7 pens together cost Rs 50, whereas 7 pencils and 5 pens together cost Rs 46. Find the cost of one pencil and that of one pen.

- A Rs 5 and Rs 7  
 C Rs 3 and Rs 7  
 B Rs 2 and Rs 5  
~~D~~ Rs 3 and Rs 5

61 To an astronaut the outer space appears to be

- A Blue  
~~C~~ Black  
 B White  
 D Violet



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- 62 Photometer is used to determine  
 A Density  
☒ B Intensity of light  
 C Potential difference  
 D Atmospheric pressure and altitude
- 63 Enrico Fermi is associated with  
☒ A Atom Bomb  
 B Hydrogen Bomb  
 C Wireless communication  
☒ D None of these
- 64 The most abundant element in earth's crust among the options given below is  
 A Hydrogen  
 B Nitrogen  
 C Helium  
☒ D Oxygen
- 65 Electrical to mechanical energy conversion takes place in  
 A Dynamo  
☒ B Electrical motor  
 C Inverter  
 D Potentiometer
- 66 The wires holding the filament in an electric bulb is only marginally hot while the filament itself is red hot because  
 A Resistance of the wires is very less  
☒ B Resistance of the wires is very high  
 C Current flowing through the wires is very less compared to that flowing through the filament  
 D Current flowing through the wires is very high compared to that flowing through the filament
- 67 Radio isotopes have application in the area of  
 A Agriculture  
 B Medicine  
 C Industry  
☒ D All of these
- 68 What is the source of energy for an artificial satellite  
 A Wind  
 B Hydro  
 C Solar  
☒ D Kinetic
- 69 Diamond is the purest form of  
 A Sulphur  
 B Glass  
☒ C Crystalline Carbon  
 D Aluminum
- 70 The pitch of the whistle of a fast moving train decreases as it recedes away. This effect is known as?  
☒ A Magnus effect  
 B Doppler effect  
 C Peltier effect  
 D Seebeck effect
- 71 The image formed by a mirror is virtual, erect and the size diminished whatever be the position of the object. The mirror is?  
☒ A Convex  
 B Concave  
 C Either convex or concave  
 D None of these
- 72 Light travels fastest in  
 A Solid  
 B Liquid  
 C Gas  
☒ D Vacuum
- 73 The science of weights and measures is called:  
 A metrology  
☒ B meteorology  
 C mineralogy  
 D morphology
- 74 Which of the following materials is used along with iron ore and limestone to produce iron in a modern blast furnace?  
☒ A coke  
 B cementite  
 C coal  
 D bauxite
- 75 Steel is composed of a number of elements. The two essential elements are iron and  
 A aluminum  
 B carbon  
☒ C nickel  
 D silicon

- 76 The study of phenomena at very low temperatures is called:  
 A heat transfer B morphology  
 C crystallography ~~D cryogenics~~
- 77 A type of polymer that is biodegradable has been in the news lately. The ingredient that makes it biodegradable is:  
 A vegetable oil B petroleum  
 C cornstarch ~~D leather~~
- 78 If a metal can be drawn into wires relatively easily it is called:  
 A malleable B ductile  
 C extractive ~~D tactile~~
- 79 Seawater (i.e. saltwater) freezes at:  
 A the same temperature as freshwater.  
 B at a slightly higher temperature than freshwater.  
~~C at a slightly lower temperature than freshwater.~~  
 D seawater does not freeze.
- 80 Water flows through a horizontal pipe at a constant volumetric rate. At a location where the cross-sectional area decreases, the velocity of the fluid:  
~~A increases~~ B decreases  
 C stays the same D none
- 81 Supply the right letter for question (?) mark : T S Q N J ?  
 A S B E  
 C K ~~D F~~
- 82 Write the right letters for question (?) mark : AM BN EI FJ CO DP GK ??  
 A PQ B QR  
 C QT ~~D HL~~
- 83 Determine the pattern and find the correct answer  
 0, 2, 6, 12, 20, \_\_, \_\_  
 A 25, 28 B 30, 41  
~~C 30, 42~~ D 30, 45
- 84 How many single digit odd numbers are there in the following sequence which is immediately followed by an odd number? 5 4 7 3 9 8 5 7 2 6 3 5 8 6 3 8 5 2 2 4 3 4 9 6  
 A 2 B 3  
~~C 4~~ D 6
- 85 Find which one word cannot be made from the letters of the word RAPPROCHEMENT  
~~A REPRESENT~~ B REPROACH  
 C PHANTOM D CEMENT
- 86 Correct the following equation by interchanging two sign  
 $5 - 9 \times 45 + 15 \div 3 = 5$   
 A + and - B  $\times$  and +  
 C  $\times$  and + ~~D  $\times$  and -~~
- 87 if a means 'plus', b means 'minus', c means 'multiplied by' and d means 'divided by' then  
 $16 \text{ c } 12 \text{ b } 6 \text{ d } 2 \text{ a } 17 =$   
 A 65 B 55  
 C 216 ~~D 206~~

- 88 Six persons P, Q, R, S, T, and U are sitting equally spaced in a circle facing one another front to front. P is sitting in front of Q, Q is sitting to the right of T and left of R, P is to the left of U and right of S. Who is sitting opposite to R?
- A P B Q  
C S ~~D U~~
- 89 Choose the word that shows the same relationship as given:  
Paissa – Rupee, Centimeter – Meter, Kilogram - ?
- A Metric ton B Hectogram  
~~C Quintal~~ D Gram
- 90 A cube of side 4 cm is painted black on the pair of one opposite surfaces, blue on the pair of another opposite surfaces and red on remaining pair of opposite surfaces. The cube is now divided into smaller cubes of equal side of 1cm each. How many smaller cubes have two surfaces painted?
- A 4 B 8  
~~C 16~~ D 24
- 91 What is the job of a teacher?
- ~~A To involve students in studies~~ B To motivate students to study  
C To make students capable of passing the examinations D To develop the talent of students on all the fronts
- 92 After completion of class teaching
- A the blackboard should be got cleaned by any students B the blackboard should be left as it is  
~~C teacher should clean the blackboard~~ D Anyone of them
- 93 First kindergarten was started by
- A William James B De Witt Clinton  
C Benjamin Franklin ~~D Friedrich Frobel~~
- 94 Probably, the greatest satisfaction in teaching is
- ~~A a feeling of love for and by children~~ B a sense of contribution to pupils' growth  
C a sense of service to society D monetary rewards and job security
- 95 What is the 'feedback' in the newspapers communication?
- A News B Articles  
C Editorials ~~D Letters to the Editor~~
- 96 The use of audio- visual aids in the class-
- ~~A is more useful for those students who are slow learners~~ B takes the concentration of students away from the main subject  
C decreases the curiosity of children D is more useful for those student who are intelligent
- 97 A student is very weak in mathematics. What would you like to do to help him?
- A You would order the most intelligent student in mathematics of the class to help the weak student ~~B You would talk to that student and find out what are his problems in mathematics; later you would remove those problems~~  
C You would give proper advice to the parents of the student in this context D You would get an advice from the Principal in this context



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98 Which of the following talked about the improvement of quality of teacher's training?

A Hunter commission

☒ B Kothari commission

C Trimurthi commission

D None of these

99 Constructivism is a learning theory based on

☒ A Developmental psychology

B Evolutionary psychology

C Cognitive psychology

D Occupational psychology

100 Behaviourism is centered on

A Transmission of knowledge from student to the instructor

B Transmission of knowledge from instructor to the student

☒ C Construction of knowledge by the student

D Construction of knowledge by the teacher

