

# MOTION OPEN SCHOLARSHIP TEST

## SESSION - 2020-21

**MOVING CLASS : 7<sup>th</sup>**

**SAMPLE PAPER**

CANDIDATE'S NAME : \_\_\_\_\_

**DURATION: 90 MINUTES**

**TOTAL QUESTIONS: 60**

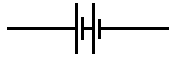
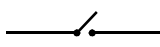


**MAXIMUM MARKS : 120**

**INSTRUCTION:**

- The paper consists of Five sections :- Science (30 Questions), Mathematics (10 Questions), Social Studies (10 Questions), English (5 Questions) and Mental ability (5 Questions).
- All questions are compulsory and carry 2 marks each.
- There is only one correct answer hence mark one choice only.
- Darken your choice in OMR Sheet with Blue/ Black Ball Point Pen.
- Return the OMR Sheet to the invigilator at the end of the exam.

**SCIENCE**

- An example of rectilinear motion is  
(A) bullet shot from a gun  
(B) clock's pendulum  
(C) blades of a table fan  
(D) both (A) and (B)
- Which of the following is an opaque material?  
(A) Clear water      (B) Butter paper  
(C) Plastic scale      (D) Rubber
- Substances which allow light to pass through them are called  
(A) translucent      (B) opaque  
(C) transparent      (D) all of these
- The motion that is repeated at regular interval of time is  
(A) vibratory motion (B) linear motion  
(C) random motion      (D) none of these
- When the moon's shadow falls on the Earth, we have a  
(A) lunar eclipse      (B) solar eclipse  
(C) umbra      (D) penumbra
- Filament of the bulb is made of  
(A) zinc      (B) copper  
(C) tungsten      (D) electrolyte
- A lunar eclipse occurs when  
(A) the Earth is between the Sun and the Moon  
(B) the Moon is between the Sun and the Earth  
(C) the Sun is between the Earth and the Moon  
(D) in all the above situations
- The force by which objects tend to push each other is called  
(A) repulsion  
(B) attraction  
(C) either repulsion or attraction  
(D) none of these

9. Which of the following is not a symbol of a circuit element?  
 (A)  (B)   
 (C)  (D) 
10. A freely suspended magnet comes to rest in the \_\_\_\_\_ direction.  
 (A) North-South (B) North-East  
 (C) South-North (D) North-West
11. A chemical change involves :  
 (A) change of state only  
 (B) change of colour only  
 (C) change of state as well as composition  
 (D) None of these
12. Rusting of iron is a  
 (A) slow change (B) reversible change  
 (C) physical change (D) none of these
13. Rayon is a example of:  
 (A) Natural fibre  
 (B) Synthetic fibre  
 (C) Semi-synthetic fibre  
 (D) None of these
14. Reeling process is used in:  
 (A) production of cotton  
 (B) production of jute  
 (C) production of silk  
 (D) none of these
15. The method used to separate heavier and lighter components of a mixture is  
 (A) hand picking (B) threshing  
 (C) winnowing (D) sieving
16. Alum is used in -  
 (A) loading (B) filtration  
 (C) evaporation (D) distillation
17. The mixture of sand, salt and water can be separated by  
 (A) sublimation (B) filtration  
 (C) distillation (D) (B) followed by (C)
18. Which of the following *allow/s* light to pass through it ?  
 (A) Transparent (B) Translucent  
 (C) A & B both (D) Opaque
19. \_\_\_\_\_ sinks in the water, while \_\_\_\_\_ floats on the water.  
 (A) Oil, mercury  
 (B) Oil, petroleum  
 (C) Mercury, oil  
 (D) Mercury, alcohol
20. The ratio of the number of hydrogen atoms and those of oxygen in water is  
 (A) 2 : 1 (B) 1 : 2  
 (C) 2 : 2 (D) None of these
21. Plants make their own food in the presence of  
 (A) sunlight and chlorophyll  
 (B) water  
 (C) CO<sub>2</sub>  
 (D) all of these
22. Match column I with column II and select the correct option from the given codes.  

<b>Column I</b>	<b>Column II</b>
a. Iron	(i) Beriberi
b. Vitamin B <sub>1</sub>	(ii) Anaemia
c. Vitamin C	(iii) Scurvy
d. Vitamin D	(iv) Goitre
e. Iodine	(v) Rickets

(A) a - (ii), b - (i), c - (iii), d - (v), e - (iv)  
 (B) a - (i), b - (iii), c - (iv), d - (v), e - (ii)  
 (C) a - (iii), b - (ii), c - (iv), d - (v), e - (i)  
 (D) a - (iv), b - (i), c - (v), d - (iii), e - (ii)

23. X is a stem modified to store food, while Y is a stem modified to make food. X and Y are respectively  
 (A) Cactus and sweet potato  
 (B) Onion and potato  
 (C) Ginger and cactus  
 (D) Dahlia and ginger

24. Which part of plant perform photosynthesis:  
 (A) Leaf (B) Flower  
 (C) Root (D) Woody stem

25. Which of these has the least number of movable joints?  
(A) Skull (B) Backbone  
(C) Arms and hands (D) Legs and feet
26. Select the mismatched pair of the organism and its locomotory organ.  
(A) Pigeon - Wings  
(B) Snail - Bristles  
(C) Cockroach - Legs  
(D) Fish - Fins
27. Long eyelashes to prevent flying sand to reach the eyes are found in a  
(A) lion (B) deer  
(C) camel (D) yak
28. Select the option that contains abiotic components only.  
(A) Plants and animals  
(B) Air and microorganisms  
(C) Bacteria and fungi  
(D) Water and soil
29. Which of the following should not be put in vermicomposting pits?  
(A) redworms (B) earthworms  
(C) pinworms (D) none of these
30. Which of the following wastes can be disposed off in blue dust bins?  
(A) Polybags (B) Metallic frame  
(C) Wall clock (D) All of these
31. The population of a town is 86542892. If the number of females is 24596825, then find the number of males.  
(A) 61946667 (B) 61956067  
(C) 61946067 (D) 61966067
32.  $(25 \times 22) \times 25 = 25 \times (22 \times 25)$  is an example of \_\_\_\_\_ property.  
(A) Commutative (B) Associative  
(C) Closure (D) Distributive
33. The successor of 100199 is  
(A) 100198 (B) 900109  
(C) 100200 (D) 100991
34. How many whole numbers are there between 25 and 82?  
(A) 56 (B) 57  
(C) 59 (D) 58
35. The HCF of two consecutive odd numbers is \_\_\_\_  
(A) 2 (B) 0  
(C) 4 (D) 1
36. The basic elements of a quadrilateral are \_\_\_\_.  
(A) 4 vertices (B) 4 sides  
(C) 4 angles (D) All of these
37. Sneha turns two right angles. How many degrees does she turn through?  
(A)  $90^\circ$  (B)  $180^\circ$   
(C)  $360^\circ$  (D)  $280^\circ$
38. Sum of two integers is -35. If one of them is 15, then other one is  
(A) 20 (B) -20  
(C) -50 (D) 50

**MATHS**

31. Find the difference between the place values of two 5's in 653852.  
(A) 49900 (B) 49056  
(C) 49950 (D) 49000
32. The difference of the greatest 6-digit number and the smallest 4-digit number is \_\_\_\_  
(A) 988999 (B) 998999  
(C) 99899 (D) 998099

**SOCIAL SCIENCE**

41. "Discovery of India" was written by:  
(A) Indira Gandhi  
(B) Sardar Vallabhbhai Patel  
(C) Pt. Jawahar Lal Nehru  
(D) Mahatma Gandhi
42. Name the father of Indian Constitution?  
(A) Mahatma Gandhi  
(B) B.R. Ambedkar  
(C) Pt. Jawaharlal Nehru  
(D) Sardar Vallabhbhai Patel
43. Which is the highest court in the country?  
(A) high court (B) Supreme court  
(C) Session court (D) None of the above
44. In india, the government are elected for a period of how many years?  
(A) 2 years (B) 3 years  
(C) 6 years (D) 5 years
45. All the planets move around the sun in a:  
(A) Circular path (B) Rectangular path  
(C) Elongated path (D) None of these
46. The circle that divides the globe into day and night is called:  
(A) Circle of day  
(B) Circle of night  
(C) circle of illumination  
(D) circle of darkness
47. The moon completes its one rotation in:  
(A) 27 days and 8 hours  
(B) 8 days and 27 hours  
(C) 29days and 8 hours  
(D) 8 days and 29 hours
48. Name the famous play written by Kalidas?  
(A) Banabhatta  
(B) Harshavardhana  
(C) Abhijnana Shakuntalam  
(D) None of these

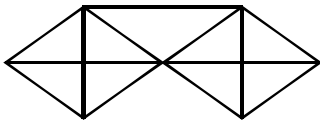
49. Who among the following kings established trade relations with Rome and Egypt?  
(A) Chandragupta-1  
(B) Chandragupta-2  
(C) Kumargupta  
(D) Samudragupta
50. Ashoka gave up war after winning over:  
(A) Taxila (B) Pataliputra  
(C) Ujjain (D) Kalinga

**ENGLISH**

51. We visited \_\_\_\_\_ Tajmahal last week.  
(A) the (B) a  
(C) x (D) little
52. Radha\_\_\_\_\_ her work recently.  
(A) has finished (B) was finished  
(C) finished (D) finishing
53. Select synonyms of "Pleasure".  
(A) Delight (B) Sorrow  
(C) Travel (D) Cruel
54. 'Student' select the type of noun.  
(A) common noun (B) abstract noun  
(C) proper noun (D) collective noun
55. Select "demonstrative pronoun" from the options.  
(A) this (B) any  
(C) each (D) others

**MENTAL ABILITY**

- 56.** Find the missing term.  
3, 9, 6, 36, 30, ?  
(A) 270 (B) 250  
(C) 200 (D) 300
- 57.** I went 20 m to the south, then I turned North and covered 10 m and then West and covered 10 m. In which direction am I from my house?  
(A) North-East (B) South-West  
(C) East (D) West
- 58.** Find the number of triangles in the given figure.



- (A) 18 (B) 19  
(C) 20 (D) 21

- 59.** In the following letter series how many times P, Q, R occur in such a way that Q is in the middle of P and R.  
Q M P N P Q R R O P Q N O P P Q R P M Q R  
O P R P P R R P Q R P  
(A) 5 (B) 6  
(C) 4 (D) 3
- 60.** Dog : Bark :: ?  
(A) Monkey : Roar (B) Owl : Chirp  
(C) Horse : Neigh (D) Sparrow : Trumpet

**ROUGH WORK**