BAAB-UL-ILM
Academy of Science & Commerce
Providing Quality Education with Excellence
BASC

Physics – Class 9ᵗʰ
Muhammad Irfan Shahid
arfan039@hotmail.com
www.baabulilmnotes.com

Chapter # 1
Multiple Choice Questions
PHYSICAL QUANTITIES AND MEASUREMENTS

Q. 1 Tick the correct answer. Also, fill up the Bubble Sheet.

1) One Cubic meter is equal to:

A. 100 liters	**B.** 1000 liters ☑
C. 10 liters	**D.** 10^6 liters

2) The number of base unit in SI is/are:

A. 3	**B.** 6
C. 7 ☑	**D.** 9

3) The basic quantity is:

A. Mass ☑	**B.** Volume
C. Torque	**D.** Momentum

4) The study of internal structure of the Earth is called:

A. Atomic Physics	**B.** Geo Physics ☑
C. Sound	**D.** Heat

5) Amount of a substance in terms of number is measured in:

A. Gram	**B.** Kilogram
C. Newton	**D.** Mole ☑

6) Which is not a derived unit:

A. Pascal	**B.** Kilogram ☑
C. Newton	**D.** Watt

7) Which is the smallest quantity?

A. 0.01 g	**B.** 2 mg
C. 100 μg	**D.** 5000 ng ☑

8) A measuring cylinder is used to measure:

A. Mass	**B.** Area
C. Volume ☑	**D.** Level of liquid

9) One micro meter is equal to:

A. 10^9m	**B.** 10^6m
C. 10^3m	**D.** 10^{-6}m ☑

Contact Us
BAAB-UL-ILM Academy of Science & Commerce ✉ info@baabulilmnotes.com
Street # 1, Ali Park, Manawala, Faisalabad/Contact # 0300-2262618/0313-1166228

1 | P a g e

BAAB-UL-ILM
Academy of Science & Commerce
Providing Quality Education with Excellence
BASC

Physics – Class 9th
Muhammad Irfan Shahid
arfan039@hotmail.com
www.baabulilmnotes.com

10) Least count of meter rod is:

A. 1mm ☑	**B.** 0.1mm
C. 0.01mm	**D.** 1cm

11) Which instrument is most suitable to measure the internal diameter of a test tube?

A. Meter rod	**B.** Vernier Caliper ☑
C. Measuring Scale	**D.** Screw Gauge

12) Least count of Vernier Caliper is:

A. 0.01mm	**B.** 0.01cm ☑
C. 1m	**D.** 1cm

13) The number of significant figures in 0.00580 Km is:

A. 1	**B.** 2
C. 3 ☑	**D.** 4

14) 0.027 has significant digits:

A. 2 ☑	**B.** 1
C. 3	**D.** 4

15) The study of matter, energy and their interaction is called:

A. Astronomy	**B.** Chemistry
C. Physics ☑	**D.** Natural philosophy

16) The physical aspects of light, its properties, and working is studied under:

A. Atomic physics	**B.** Optics ☑
C. Thermodynamic	**D.** Plasma physics

17) The base quantity is:

A. Length ☑	**B.** Force
C. Speed	**D.** Acceleration

18) The SI unit of mass is:

A. Gram	**B.** Kilogram ☑
C. Milligram	**D.** Centigram

19) Which one is a derived unit?

A. Joule ☑	**B.** Second
C. Mole	**D.** Kelvin

20) One Nano =?

A. 10^{-18}	**B.** 10^{-15}

Contact Us
BAAB-UL-ILM Academy of Science & Commerce info@baabulilmnotes.com
Street # 1, Ali Park, Manawala, Faisalabad/Contact # 0300-2262618/0313-1166228

2 | P a g e

BAAB-UL-ILM
ACADEMY of Science & Commerce
Providing Quality Education with Excellence
BASC

Physics – Class 9th
Muhammad Irfan Shahid
arfan039@hotmail.com
www.baabulilmnotes.com

C. 10^{-12}	**D.** 10^{-9} ☑

21) A meter rule can measure accurately upto:

A. 1mm ☑	**B.** 0.01mm
C. 0.01mm	**D.** 1cm

22) The least count of a screw gauge is:

A. 1 cm	**B.** 0.001 m
C. 0.01 mm ☑	**D.** 1 mm

23) The mass of body is measured with the help of:

A. Spring Balance	**B.** Stop Watch
C. Measuring cylinder	**D.** Physical Balance ☑

24) The number of significant figures in 0.03 is:

A. One ☑	**B.** Two
C. Three	**D.** None of these

25) 1.35 is rounded to:

A. 1.4 ☑	**B.** 1.5
C. 1.45	**D.** 1.3

26) Which one of the following units is not derived unit:

A. Pascal	**B.** Kilogram ☑
C. Newton	**D.** Mole

27) An interval of $200\mu s$ is equivalent to:

A. 0.2s	**B.** 0.02s
C. 2×10^{-4}s ☑	**D.** 2×10^{-6}s

28) A student noted the thickness of glass sheet using a screw gauge. On the main sale, it read 3 divisions while $8th$ divisions on the circular scale coincides with index line. Its thickness is:

A. 3.8cm	**B.** 3.08mm ☑
C. 3.8mm	**D.** 3.08m

29) Significant figures in an expression are:

A. All the digits	**B.** All the accurately known digits ☑
C. All the accurately known digits and the first doubtful digit	**D.** All the accurately known and all the doubtful digits

30) The word "Science" is derived from Latin word:

A. Scientist	**B.** Scientia ☑
C. Scient	**D.** Scienta

Contact Us
f BAAB-UL-ILM Academy of Science & Commerce ✉ info@baabulilmnotes.com
Street # 1, Ali Park, Manawala, Faisalabad/Contact # 0300-2262618/0313-1166228
3 | P a g e

BAAB-UL-ILM
Academy of Science & Commerce
Providing Quality Education with Excellence
BASC

Physics – Class 9th
Muhammad Irfan Shahid
arfan039@hotmail.com
www.baabulilmnotes.com

31) The study of isolated nuclei of an atom is called:

A. Plasma Physics	**B.** Astrophysics
C. Nuclear Physics ☑	**D.** Biophysics

32) Much of the universe is made up of:

A. Solid	**B.** Liquid
C. Plasma ☑	**D.** All of these

33) The international system of units is abbreviated as:

A. IS	**B.** SI ☑
C. Both A & B	**D.** None of these

34) Least count of digital stop watch is:

A. 1 second	**B.** 1 minute
C. 0.1 second	**D.** 0.01 second ☑

35) Andromeda is one of the billions of:

A. Stars	**B.** Universe
C. Galaxies ☑	**D.** Planets

36) A physical balance is used to measure:

A. Weight	**B.** Volume
C. Length	**D.** Mass ☑

37) Which one of the following is not a base quantity?

A. Temperature	**B.** Electric charge ☑
C. Electric current	**D.** Amount of substance

38) The terms used internationally for multiples and sub-multiples are called:

A. Science notation	**B.** Suffixes
C. Prefixes ☑	**D.** None of these

39) One Femto is equal to:

A. 10^{-9}	**B.** 10^{-12}
C. 10^{-15} ☑	**D.** 10^{-18}

40) Accuracy greater than 1mm can be obtained by:

E. Meter rule	**F.** Measuring tape
A. Vernier Calipers ☑	**B.** All of above

41) The separation between two Vernier lines is:

A. 1 cm	**B.** 1 mm

Contact Us
BAAB-UL-ILM Academy of Science & Commerce ✉ info@baabulilmnotes.com
Street # 1, Ali Park, Manawala, Faisalabad/Contact # 0300-2262618/0313-1166228
4 | P a g e

BAAB-UL-ILM
Academy of Science & Commerce
Providing Quality Education with Excellence
BASC

Physics – Class 9th
Muhammad Irfan Shahid
arfan039@hotmail.com
www.baabulilmnotes.com

C. 0.9 mm ☑	**D.** All of these

42) Pitch of screw gauge is:

A. 1 m	**B.** 1 mm ☑
C. 1 cm	**D.** 0.1 mm

43) If the zero error is negative then the value of zero error would be:

A. Added to measured value ☑	**B.** Subtracted from measure value
C. Divided to measured value	**D.** Multiple by measured value

44) The instrument used in laboratory to measure the mass of various object is:

A.	**B.**
C. Level balance	**D.** Beam balance
E. Physical balance ☑	**F.** All of these

45) The number of significant figures in 0.002070 are:

A. 2	**B.** 3
C. 4 ☑	**D.** 6

46) The number of derived units in SI system are:

A. 3	**B.** 5
C. 7	**D.** Multiple ☑

47) The radius of wire is 0.022 cm. the number of significant figures in the measurements are:

A. 1	**B.** 2 ☑
C. 3	**D.** 4

48) The zeros in between the digits are considered:

A. Significant ☑	**B.** Insignificant
C. Constant	**D.** None of these

49) In screw gauge, index line is present on:

A. Spindle	**B.** Thimble
C. Sleeve ☑	**D.** Ratchet

50) Zeros used for spacing the decimal point are:

A. Significant	**B.** Non-significant ☑
C. Doubtful	**D.** Hypothetical

Contact Us
BAAB-UL-ILM Academy of Science & Commerce info@baabulilmnotes.com
Street # 1, Ali Park, Manawala, Faisalabad/Contact # 0300-2262618/0313-1166228

5 | P a g e