QUESTION PAPER
(PAPER 1)
TECHNICAL ASSISTANT
(BIOLOGICAL SCIENCES)

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Paper I

Part A

1) Sudip's present age is thrice of Ankita. If Ankita's age three years ago was x, then Sudip's present age is

A. $3x+3$

B. $3x-9$

C. $3(x+3)$

D. $3(x-3)$

2) Length of a rectangle is 5 cm more than its breadth. If the area of rectangle is 50 cm^2, then find the length of rectangle.

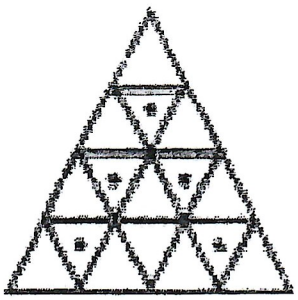
A. 12 cm

B. 11 cm

C. 10 cm

D. 9 cm

3) Find out the number of triangles with dot/s in the figure given below:



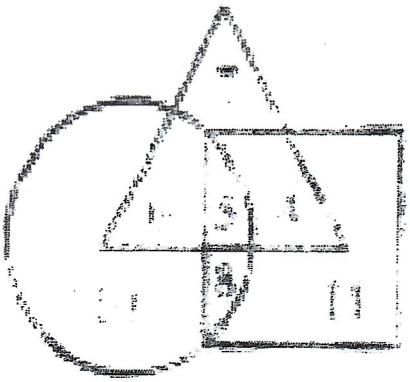
A. 5

B. 8

C. 10

D. 16

4) In the following diagram the circle represents Cricket players, the triangle represents Hockey players and the square represents football players. How many play both Football and Hockey?



A. 4

B. 7

C. 9

D. 11

5) Complete the sequence of numbers: 2, 6, 12, 20, ?

A. 28

B. 30

C. 32

D. 34

6) If $3x = 12$, then $9x = ?$

A. 24

B. 36

C. 48

D. 54

7) If 15% of a number is 45, then the number is:

A. 200

B. 250

C. 300

D. 350

8) If CAT = 3120, then DOG = ?

A. 4157

B. 4150

C. 4156

D. 4160

9) If "SUN" = 54, "MOON" = 57, then "STAR" = ?

A. 64

B. 58

C. 84

D. 94

10) Five friends are sitting in a row. a is left of b, c is right of d, e is between a and d. Who is in the middle?

A. a

B. b

C. c

D. e

11) A clock shows 3:15. What is the angle between hour and minute hands?

A. 45°

B. 7.5°

C. 360°

D. 180°

12) If 2 men or 3 women can complete a task in 12 days, how many days for 4 men and 6 women?

A. 2

B. 3

C. 4

D. 5

13) Which day will it be 100 days after a Monday?

A. Wednesday

B. Thursday

C. Friday

D. Saturday

14) If A is taller than B, C is shorter than A, D is taller than C but shorter than A. Who is tallest?

A. D

B. C

C. B

D. A

15) Which is having higher density?

A. 1 kg cotton

B. 1 kg iron

C. I kg cotton and 1 kg iron, both will have equal density

D. Cotton's density can not be evaluated

Part B

16 1) IPL 2025 cricket championship winner is

A. Royal Challenger Bengaluru

B. Kolkata Knight Riders

C. Delhi Capitals

D. Chennai Superking

17 2) Who is the Indian womens' cricket team captain in 2025 that won Champions of the World?

A. Harleen Kaur

B. Harmanpreet Kaur

C. Navneet Kaur

D. Manpreet Kaur

18 The boundary demarcation line between India and Pakistan during partition is termed as

A. Durand line

B. MacMohan line

C. Radcliffe line

D. Radoliff line

19 Dadasaheb Phalke Award in 2025 has been given to

A. Asha Bhosle

B. Bhupen Hazarika

C. Salman Khan

D. Mohanlal

20 Sir C V Raman got Nobel Prize in Physics for his work on

A. scattering of light

B. intensity of sound production

C. rules of Thermodynamics

D. conversion of solar energy into mechanical energy

21 The study of health related issues in a specific population or communities is called as

A. Virology

B. Endemiology

C. Epidemiology

D. Epi center

22 FIFA 2026 World Cup Football will be played in

A. 16 cities in India, Bangladesh and Srilanka

B. 16 cities in USA, Canada and Mexico

C. Bonn

D. 12 cities in Australia

23 ~~8~~ Which of the following is correct sequence of smallest to largest unit of storage size?

A. Kilobyte, Terabyte, Megabyte, Gigabyte, Petabyte

B. Kilobyte, Petabyte, Megabyte, Terabyte, Gigabyte

C. Kilobyte, Megabyte, Gigabyte, Terabyte, Petabyte

D. Kilobyte, Megabyte, Terabyte, Petabyte, Gigabyte

In the following two questions there are four words out of which one is correctly spelt. Find the correctly spelt word:

24 ~~9~~ A. Recommended

B. Reccommended

C. Recomended

D. Recommendid

25 ~~10~~ A. Refridgerator

B. Refrigerator

C. Refridgarator

D. Refrigarator

In the following three questions find the missing word out of the choices given which would make the given sentence grammatically correct and meaningful:

26 ~~11)~~ We all must ..... by the terms of contract

A. cooperate

B. abide

C. unite

D. cope

~~12)~~ She got ..... her exams without too much trouble.

27

A. in

B. out

C. off

D. through

~~13)~~ The miscreants blew ..... the bridge.

28

A. off

B. into

C. through

D. out

In the following two questions a part of the sentence is underlined. Alternatives are given below which may improve the sentence or keep the sentence as it is. Choose the best alternative:

~~14)~~ It is a fine day, no?

29

A. is it?

B. is n't it?

C. yes?

D. No improvement

~~15)~~ Copy this document word by word and show it to me.

30

A. word on word

B. in between words

C. word for word

D. No improvement needed

Part C

1) 31 Fossil remains of Archaeopteryx were recovered from the rocks of the

A) Jurassic period

B) Triassic period

C) Palaeozoic era

D) Pliocene epoce

2) 32 Which of the following is an example of transformation of chemical energy to light energy?

A) Autoradiography

B) Bioluminescence

C) Ionizing radiation

D) Windmills

3) 33 Migration of cancerous cells from the place of their origin to another place of the body is termed as

A) apoptosis

B) diapedasis

C) necrosis

D) metastasis

4) 34 An allergic reaction is initiated by antibodies of

A) IgM group

B) IgA group

C) IgE group

D) IgG group

~~5)~~ Which one of the following cell types does not divide in adult organisms?

35 A) Primary germ cells

B) Neurons

C) Intestinal epithelium

D) Corneal epithelium

~~6)~~ Red rust of tea is caused by

36 A. *Cephaleuros*

B. *Nostoc*

C. *Striga*

D. *Loranthus*

~~7)~~ Agar-Agar is obtained from

37 A. *Chara*

B. *Chlorella*

C. *Gelidium*

D. *Lainaria*

~~8)~~ The crucial and specialized function of Golgi apparatus in plant cells is

38 A. processing of insulin

B. sorting of mucus proteins

C. synthesis of complex polysaccharides that form cell wall

D. synthesis of peptidoglycans

~~9)~~ Which one of the following is a colonial alga?

39 A. *Spirogyra*

B. *Volvox*

C. *Chlorella*

D. *Ulothrix*

~~10)~~ Plants not known to having significant medicinal value

40

A. *Aloe vera*

B. *Gingiber officinale*

C. *Ocimum tenuiflorum*

D. *Indigofera tinctoria*

~~11)~~ For Bt crop which of the following is incorrect?

41

A. Bt gene is expressed in stem and leaf of the crop

B. Bt gene is expressed in the gut of insects that infest the crop

C. Bt gene destroys the digestive system of the larvae infesting the crop

D. Bt protein is expected to be harmless to the animals and humans that consume the crop leaf or stem

~~12)~~ For Covaxin production against SARS-CoV-2 virus

42

A. whole SARS-CoV-2 virus particles were used that have been killed or inactivated with chemicals

B. mRNA coding for spike protein of virus was used

C. viral vectors were used to carry gene for spike protein of virus

D. live viruses were used

~~13)~~ The Widal test

43

A. confirms the presence of antibodies against *Plasmodium* in human blood

B. confirms the presence of antigens of *Salmonella* in human blood

C. confirms the presence of antibodies against *Salmonella* in human blood

D. confirms the presence of antigens of *Plasmodium* in human blood

~~14)~~ In human which one is considered a vestigial organ?

44

A. Large Intestine

B. Small Intestine

C. Oesophagus

D. Appendix

15) Identify the sex chromosome combination in a normal man

A. XX

B. XY

C. X0

D. Y0

16) Which one is found in relatively maximum amount in the human body?

A. Water

B. Protein

C. Lipid

D. Carbohydrate

17) For a given gene, a diploid individual will contain

A. two alleles

B. one allele

C. multiple alleles

D. two genes

18) The main producers in an aquatic ecosystem are

A. Large rooted and floating plants

B. Zooplankton

C. Phytoplankton

D. Detrivores

19) Which law of Mendel is revealed by dihybrid cross ?

A. Law of dominance

B. Law of segregation

C. Law of independent assortment

D. Law of heterosis

20) In a centrifuge separation of suspended particles is mainly carried out by

A. Centrifugal force

B. Centripetal force

C. Gravitational force

D. Buoyant density