ENGLISH

Passage

Directions.1-5): Read the passage carefully and answer the questions given below. Choose the most appropriate option for each question.

In the 21st century, the importance of mental health has gained global recognition. Unlike physical health, mental well-being was often neglected or stigmatized. People are now more aware of the need to manage stress, anxiety, and other psychological challenges. Initiatives like counseling, mindfulness, and open discussions have played a crucial role in breaking the stigma. However, many societies still lack adequate mental health resources, which hinders overall progress in mental well-being.

Q.1) What is the primary focus of the passage?
- a) Physical fitness
- **b) Mental health awareness**
- c) Economic development
- d) Technological advancements

Q.2) What was the common attitude toward mental health in the past?
- a) It was widely accepted.
- **b) It was neglected or stigmatized.**
- c) It was celebrated.
- d) It was taught in schools.

Q.3) Which of the following helps in managing mental health according to the passage?
- a) Isolation
- **b) Counseling and mindfulness**
- c) Ignoring stress
- d) Physical exercise

Q.4) What challenge still exists in many societies regarding mental health?
- a) Overabundance of resources
- **b) Lack of mental health resources**
- c) Too many open discussions
- d) Reduction in psychological challenges

Q.5) What can be inferred from the passage?
- a) Mental health is less important than physical health.
- b) Stigma around mental health has completely disappeared.
- **c) Progress in mental health awareness is ongoing.**
- d) Mental health does not affect overall well-being.

Directions.6-10): Each of the following sentences has a blank space. Select the word or group of words that best fits the sentence.

Q.6) The company is working hard to _____ its environmental impact.
- a) increase
- **b) reduce**
- c) ignore
- d) expand

Q.7) The athlete was _____ after completing the marathon.
- **a) exhausted**
- b) delighted
- c) confused
- d) bored

Q.8) The scientist's research was _____ by her dedication.
- a) hindered
- **b) motivated**
- c) ignored
- d) forgotten

Q.9) The movie was _____ by critics for its innovative story.
- **a) praised**
- b) rejected
- c) misunderstood
- d) avoided

Q.10) The teacher _____ the importance of regular practice.
- a) ignored
- **b) emphasized**
- c) questioned
- d) reduced

Directions.11-15): Identify the correctly spelt word.

Q.11)
- **a) Acquaintance**
- b) Acquintance
- c) Aquaiantance
- d) Acquaitance

Q.12)
- a) Priviledge
- **b) Privilege**
- c) Privelege
- d) Privellage

Q.13)
- **a) Recommend**
- b) Recomend
- c) Recommmend
- d) Recomand

Q.14)
- a) Harasment
- b) Harrasment
- **c) Harassment**
- d) Harasement

Q.15)
- a) Convinience
- **b) Convenience**
- c) Conveneince
- d) Convenians

Directions.16-20): In each question, choose the correct synonym of the word given.

Q.16) Accurate
- a) Wrong
- **b) Exact**
- c) Approximate
- d) Doubtful

Q.17) Generous
- **a) Kind**
- b) Selfish
- c) Greedy
- d) Unkind

Q.18) Temporary
- a) Permanent
- **b) Brief**
- c) Endless
- d) Long-lasting

Q.19) Fragile
- a) Strong
- b) Weak
- **c) Delicate**
- d) Durable

Q.20) Persistent
- **a) Determined**
- b) Lazy
- c) Hesitant
- d) Uncertain

Directions.21-25): Each of the following sentences has a blank space. Select the most appropriate preposition to complete the sentence.

Q.21) She is known _____ her excellent cooking skills.
- **a) for**
- b) in
- c) on
- d) at

Q.22) The child hid _____ the table during the game.
- a) on
- **b) under**
- c) above
- d) in

Q.23) He is traveling _____ Europe this summer.
- a) to
- b) on
- **c) in**
- d) at

Q.24) The manager agreed _____ the proposal after much discussion.
- a) in
- b) with
- c) on
- **d) to**

Q.25) The keys were left _____ the kitchen counter.
- **a) on**
- b) in
- c) over
- d) at

MATHEMATICS

Q.26) If 12142c is divisible by 3, then find the value of c.
- a) 9
- b) 4
- c) 3
- **d) 8**

Q.27) If $\frac{5}{7}$ of $X = \frac{4}{8}$ of Y, is then $X:Y$ is
- a) 1:2
- **b) 7:10**
- c) 10:7
- d) 2:1

Q.28) What is the value of x in the two equivalent rational number $-\frac{5}{6}$ and $\frac{x}{-54}$?
- **a) 45**
- b) 30
- c) 48
- d) 27

Q.29) The ratio of present ages of two persons, A and B is 3: 4. After 20 years, this ratio will become 7:8.
What is the present age of A?
- a) 12 years
- **b) 15 years**
- c) 24 years
- d) 30 years

Q.30) By which smallest number must 48 be divided to make it a perfect square?
- a) 2
- **b) 3**
- c) 6
- d) 4

Q.31) The following data has been arranged in ascending order. If their median is 93, what is the value of x?
47, 52, 70, 82, x, x + 2, 98, 100, 105, 112
- **a) 92**
- b) 94
- c) 91
- d) 95

Q.32) The marked price of a bag is Rs. 5200. If it is sold at a discount of 15%, what will be its selling price?
- a) Rs. 4428
- b) Rs. 4780
- **c) Rs. 4420**
- d) Rs. 4423

Q.33) A group of 30 men can do a piece of work in 20 days. If 5 men leave the work after 5 days, how many days will the rest of the men take to complete the work?
- a) 20
- b) 24
- **c) 18**

d) 16

Q.34) A car can travel 30 km in 15 minutes. How many kilometres can it travel in two hours?
 a) 210
 b) 240
 c) 250
 d) 260

Q.35) At a certain rate of simple interest, Rs. 700 in 2 years amounts to Rs. 840. If the rate of interest is increased by 2%, what will be the amount after 3 years?
 a) Rs. 1056
 b) Rs. 952
 c) Rs. 940
 d) Rs. 860

Q.36) A refrigerator is sold at Rs. 5225 after allowing a discount of 5%. What is its marked price?
 a) A Rs. 5235
 b) B Rs. 5300
 c) Rs. 5445
 d) Rs. 5500

Q.37) Which of the following is the smallest multiple of 29645 and is a perfect square?
 a) 48225
 b) 148225
 c) 55929
 d) 2916455

Q.38) Which of the following is the smallest number that should be subtracted from 549162 in order to make it a perfect square?
 a) 36
 b) 62
 c) 81
 d) 24

Q.39) If the volume of a cuboid is 1000 m³ and the area of its base is 50 m², then what is the height of the cuboid?
 a) 21 m
 b) 20 m
 c) 60 m
 d) 70 m

Q.40) Which of the following solids has 6 flat faces, 12 edges and 8 vertices?
 a) Square-based pyramid
 b) Cuboid
 c) Cylinder
 d) Tetrahedron

Q.41) If 379330564096×9261, find the cube root of 37933056.
 a) 418
 b) 378
 c) 363
 d) 336

Q.42) Four ice cubes of sides 11 cm, 12 cm 13 cm and 14 cm are melted and then frozen together again to form one big ice cube. Find the side of the new ice cube formed.
 a) 17 cm
 b) 20 cm
 c) 40 cm
 d) 50 cm

Q.43) Simplify:$49^{1.5}:9^{2.5}$
 a) 243:49
 b) 49:343
 c) 243:343
 d) 343:243

Q.44) A number is 147 more than the average of its quarter, one-fifth and one-tenth. Find the number.
 a) 160
 b) 180
 c) 172
 d) 162

Q.45) What is the sum of square root of 2025 and square root of 1521?
 a) 80
 b) 82
 c) 84
 d) 86

Q.46) Multiply the difference between $\frac{1}{2}$ and $\frac{1}{3}$ by their sum.
 a) $\frac{1}{36}$
 b) $\frac{5}{36}$
 c) $\frac{7}{36}$
 d) $\frac{7}{36}$

Q.47) Rajiv is 6th from the front and Sukhi is 10th from the back in a queue. What is the total number of people in the queue, if there are 10 people between Rajiv and Sukhi?
 a) 26
 b) 27
 c) 28
 d) 30

Q.48) Ramita is 5 ranks above Isha in a class of 41 students. If Isha's rank is 13th from the bottom, then what is Ramita's rank from the top?
 a) 22nd
 b) 23rd
 c) 24th
 d) 25th

Q.49) By which smallest number must 48 be divided to make it a perfect square?
 a) 2
 b) 3
 c) 6
 d) 4

Q.50) The ratio of present ages of two persons, A and B, is 3:4. After 20 years, this ratio will become 7:8. What is the present age of A?
  a) 12 years
  b) 15 years
  c) 24 years
  d) 30 years

Q.51) What is the greatest value of A for which the 5-digit number 425A7 is divisible by 3?
  a) 3
  b) 6
  c) 8
  d) 9

Q.52) Evaluate 8/5 + 3/5 ÷ 6/5 - 1/5:
  a) 3/5
  b) 7/5
  c) 9/5
  d) 11/5

Q.53) What is the smallest value of A for which the 6-digit number 9182A3 is divisible by 9?
  a) 0
  b) 3
  c) 6
  d) 9

Q.54) Evaluate 5/3 + 3/7 - 4/9:
  a) 56/63
  b) 47/63
  c) 45/63
  d) 43/63

Q.55) What is the result of 7/3 + 7/3 ÷ 14/3 - 1/7?
  a) 7/3
  b) 3/2
  c) 10/3
  d) 1/2

Q.56) Which of the following is divisible by both 3 and 9?
  a) 423
  b) 342
  c) 531
  d) 639

Q.57) Simplify 3/4 ÷ 6/5 + 7/10:
  a) 17/10
  b) 15/10
  c) 19/10
  d) 13/10

Q.58) What is the remainder when 56789 is divided by 3?
  a) 0
  b) 1
  c) 2
  d) 3

Q.59) Which is the greatest value of A for which the 7-digit number 78A1234 is divisible by 9?
  a) 3
  b) 5
  c) 7

  d) 9

Q.60) Simplify 1/3 + 5/6 - 1/2:
  a) 4/3
  b) 5/6
  c) 2/3
  d) 1/2

Q.61) By which smallest number must 2700 be multiplied so that the new number is a perfect cube?
  a) 6
  b) 10
  c) 15
  d) 18

Q.62) The number of zeros at the end of $1 \times 2 \times 3 \times ... \times 20$ is:
  a) 6
  b) 4
  c) 5
  d) 3

Q.63) What is the largest 4-digit number divisible by 9?
  a) 9999
  b) 9990
  c) 9981
  d) 9972

Q.64) By which smallest number must 720 be multiplied so that it becomes a perfect square?
  a) 2
  b) 3
  c) 5
  d) 6

Q.65) How many trailing zeros are there in 50! ?
  a) 10
  b) 11
  c) 12
  d) 13

Q.66) What is the least 3-digit number divisible by 7?
  a) 100
  b) 105
  c) 110
  d) 112

Q.67) The product of three consecutive integers is always divisible by:
  a) 6
  b) 8
  c) 12
  d) 24

Q.68) By which smallest number must 500 be multiplied so that the result is a perfect cube?
  a) 5
  b) 10
  c) 20
  d) 30

Q.69) If in a polyhedron, V represents the number of vertices, F the number of faces, and E the number of edges, which of the following cannot be true for a polyhedron?
- a) V = 8, F = 6, E = 12
- b) V = 5, F = 5, E = 8
- **c) V = 6, F = 5, E = 10**
- d) V = 4, F = 4, E = 6

Q.70) A cube of side 5 cm is painted on all sides and cut into smaller cubes of side 1 cm. What is the total volume of the smaller cubes that have no painted face?
- a) 54 cm³
- b) 45 cm³
- c) 34 cm³
- **d) 27 cm³**

Q.71) A cube has a total surface area of 384 cm². What is the length of its side?
- a) 6 cm
- **b) 8 cm**
- c) 10 cm
- d) 12 cm

Q.72) How many edges does a cube have?
- a) 6
- b) 8
- **c) 12**
- d) 16

Q.73) What is the lateral surface area of a cube with side 4 cm?
- **a) 64 cm²**
- b) 48 cm²
- c) 96 cm²
- d) 72 cm²

Q.74) A cuboid has dimensions 5 cm, 4 cm, and 3 cm. What is its volume?
- **a) 60 cm³**
- b) 54 cm³
- c) 75 cm³
- d) 80 cm³

Q.75) A cylinder has a radius of 7 cm and height 10 cm. What is its volume?
- **a) 1540 cm³**
- b) 1440 cm³
- c) 1340 cm³
- d) 1240 cm³

REASONING

Q.76) In a certain code language, if **APPLE** is written as **CQQNG**, how is **ORANGE** written in that code?
- a) QTCPIH
- **b) QTCRKH**
- c) QVCRKG
- d) QRDTLI

Q.77) If **CAT** is coded as **XZG**, how is **DOG** coded in that language?
- a) WLT
- b) XMT
- c) YNU
- **d) XMV**

Q.78) In a certain code, **HELLO** is written as **KHOOR**. How is **WORLD** written in that code?
- **a) ZRUOG**
- b) ZVPFG
- c) YTOJG
- d) XUSLF

Q.79) If **PAINT** is coded as **RCKPV**, what is the code for **BRUSH**?
- **a) DTUJV**
- b) DTVJU
- c) DSYKW
- d) ETUKV

Q.80) In a certain code, **324** is coded as **CAB**, **456** as **DBE**. How would **236** be coded?
- a) CBF
- **b) CBE**
- c) DAB
- d) DBE

Q.81) If **COLD** is coded as **DPNE**, how is **WARM** coded?
- a) XZQN
- b) XBQN
- **c) XDQN**
- d) XCNQ

Q.82) In a certain code, **TEACHER** is written as **VGCEJGT**. How is **STUDENT** written in that code?
- **a) UWVFGPV**
- b) UTVFGRU
- c) VUWFGRU
- d) UVTFGRW

Q.83) If **FOUR** is coded as **GQVS**, what is the code for **NINE**?
- **a) OKOF**
- b) OLJG
- c) OKPF
- d) OMKF

Q.84) In a code language, **DOG** is coded as **3127**. How is **CAT** coded in that code?
- a) 3146
- **b) 3147**
- c) 3157
- d) 4136

Q.85) If **CLOUD** is coded as **FORYD**, how is **RAIN** coded?
- a) UDKR
- b) TEKO
- **c) TDRO**
- d) SCKM

Q.86) If **HOUSE** is coded as **IPVTF**, what is the code for **PLANT**?
a) **QMBOU**
b) QNCPU
c) OMZOS
d) **QMCVU**

Q.87) In a certain code, **SPARK** is written as **TQBSL**. How is **FLAME** written in that code?
a) **GNBNF**
b) FNBMF
c) GNANF
d) FNALF

Q.88) If **EXAM** is coded as **FZBN**, what is the code for **TEST**?
a) UFTU
b) UFTS
c) **UFTT**
d) UGTT

Q.89) In a code, **WATCH** is written as **XBUDI**. How is **CLOCK** written?
a) DNQEL
b) DMPDL
c) **DMQDL**
d) DMRDL

Q.90) If **MOTHER** is coded as **PRWKH**, what is the code for **FATHER**?
a) HDWKH
b) **IDWKH**
c) GZWIH
d) HWJIH

Q.91) In a certain code, **SAFE** is written as **TFBG**. How is **FIRE** written in that code?
a) **GJSH**
b) GJRF
c) GFSE
d) GJTF

Q.92) If **BLACK** is coded as **CMBDL**, what is the code for **WHITE**?
a) XIJUF
b) **XHJUF**
c) XHJTG
d) XHJUH

Q.93) In a certain language, **PEACE** is written as **RGCEA**. How is **BATTLE** written?
a) DVCNEG
b) DUCTEF
c) DVTDGF
d) **DVCTEF**

Q.94) If **CROSS** is coded as **DTPUV**, how is **SHINE** coded?
a) TIJOE
b) TJJOF
c) TIKOF
d) **TJKOF**

Q.95) In a certain code language, **BRAVE** is written as **CSBWF**. How would **FIGHT** be written?
a) GJGJU
b) GKHJU
c) GJHIU
d) GKHJT

Q.96) If **MONDAY** is written as **PQOGCZ**, what will **FRIDAY** be coded as?
a) HTJFCZ
b) GQJHCZ
c) GPJHCZ
d) HTJGBC

Q.97) If **JULY** is coded as **KWMB**, how will **MARCH** be coded?
a) **NCSKF**
b) MBTKF
c) NCSKF
d) MCUKG

Q.98) In a code, **FLOWER** is written as **HNUYIT**. How will **GARDEN** be written in that code?
a) ICFGRP
b) HBSFRP
c) **ICFRPT**
d) IBGFTU

Q.99) If **EASY** is coded as **FCCZ**, how is **HARD** coded?
a) **ICSE**
b) GZSE
c) HZSE
d) HZSF

Q.100) In a certain code language, **BALL** is written as **DCKN**. How is **PLAY** written in that code?
a) **RNBW**
b) RNBY
c) RNBX
d) QLBW

GENERAL SCIENCE

Q.101) Which process is used to extract metals from their ores?
a) Evaporation
b) Distillation
c) **Smelting**
d) Filtration

Q.102) What is the main function of platelets in the blood?
a) Transporting oxygen
b) Fighting infections
c) **Clotting blood**
d) Regulating temperature

Q.103) Which phenomenon causes the splitting of white light into its constituent colors?
a) Reflection
b) Refraction
c) **Dispersion**
d) Diffraction

Q.104) The chemical formula of quicklime is:
a) $CaCO_3$
b) CaO
c) $Ca(OH)_2$
d) $CaCl_2$

Q.105) Which type of energy conversion occurs in a solar cell?
a) Mechanical to electrical
b) Chemical to electrical
c) Light to electrical
d) Heat to electrical

Q.106) What is the role of bile in digestion?
a) Breaks down proteins
b) Emulsifies fats
c) Digests carbohydrates
d) Neutralizes acids

Q.107) What is the SI unit of electric current?
a) Volt
b) Ohm
c) Ampere
d) Joule

Q.108) Which hormone is responsible for the regulation of calcium in the blood?
a) Adrenaline
b) Thyroxine
c) Parathyroid hormone
d) Insulin

Q.109) Which part of the brain controls involuntary actions like breathing and heartbeat?
a) Cerebrum
b) Cerebellum
c) Medulla oblongata
d) Hypothalamus

Q.110) What is the primary cause of wind?
a) Earth's rotation
b) Differences in air pressure
c) Ocean currents
d) Solar radiation

Q.111) Which of the following is the best conductor of heat?
a) Wood
b) Copper
c) Glass
d) Plastic

Q.112) Which gas is released during the process of photosynthesis?
a) Nitrogen
b) Oxygen
c) Carbon dioxide
d) Hydrogen

Q.113) The device used to measure the intensity of an earthquake is called:
a) Barometer
b) Seismograph
c) Anemometer
d) Thermometer

Q.114) Which vitamin is water-soluble?
a) Vitamin A
b) Vitamin D
c) Vitamin C
d) Vitamin K

Q.115) What is the function of the stomata in leaves?
a) Transporting nutrients
b) Absorbing water
c) Gas exchange
d) Storing energy

Q.116) Which organelle in plant cells is responsible for storing water and nutrients?
a) Mitochondria
b) Chloroplast
c) Vacuole
d) Ribosome

Q.117) The hardness of a mineral is measured using which scale?
a) Kelvin scale
b) Richter scale
c) Mohs scale
d) Celsius scale

Q.118) What is the primary component of natural gas?
a) Methane
b) Propane
c) Butane
d) Ethane

Q.119) Which of the following metals is extracted using electrolysis?
a) Iron
b) Copper
c) Aluminum
d) Zinc

Q.120) Which process is responsible for cloud formation?
a) Evaporation
b) Condensation
c) Sublimation
d) Transpiration

Q.121) What is the primary function of the pancreas?
a) Producing insulin
b) Storing bile
c) Filtering blood
d) Producing adrenaline

Q.122) Which part of the eye is responsible for focusing light?
a) Cornea
b) Retina
c) Lens
d) Optic nerve

Q.123) Which of the following is an example of a chemical change?
a) Melting ice
b) Boiling water
c) Rusting iron
d) Breaking glass

Q.124) What is the primary source of oxygen in the atmosphere?
   a) Volcanic eruptions
   b) Photosynthesis
   c) Respiration
   d) Combustion

Q.125) The hormone responsible for growth in humans is:
   a) Insulin
   b) Adrenaline
   c) Growth hormone
   d) Thyroxine

SOCIAL SCIENCE

Q.126) Who led the Santhal Rebellion of 1855?
   a) Tatya Tope
   b) Kunwar Singh
   c) Sidhu and Kanhu Murmu
   d) Nana Saheb

Q.127) Which act abolished the Permanent Settlement System?
   a) The Ryotwari Act
   b) The Tenancy Act of 1885
   c) The Zamindari Abolition Act
   d) The Vernacular Press Act

Q.128) What was the major objective of the Ilbert Bill of 1883?
   a) Equal rights for British and Indian judges
   b) Ban on the press
   c) Introduction of new taxes
   d) Reservation for minorities

Q.129) Satnami Rebellion took place during the reign of which Mughal emperor?
   a) Akbar
   b) Jahangir
   c) Aurangzeb
   d) Shah Jahan

Q.130) The Third Battle of Panipat was fought between:
   a) Marathas and Mughals
   b) Marathas and Afghans
   c) British and Sikhs
   d) Rajputs and Mughals

Q.131) The Simon Commission was boycotted because:
   a) It supported the partition of Bengal
   b) It did not have any Indian members
   c) It imposed new taxes
   d) It promoted British policies

Q.132) The Doctrine of Lapse was introduced by:
   a) Lord Ripon
   b) Lord Wellesley
   c) Lord Dalhousie
   d) Lord Curzon

Q.133) What is the significance of the Charter Act of 1833?
   a) It ended the trade monopoly of the East India Company
   b) It introduced the Indian Penal Code
   c) It established the Governor-General of India
   d) It granted Indians the right to vote

Q.134) The Gandhian principle of Sarvodaya refers to:
   a) Complete independence
   b) Upliftment of all
   c) Non-violence
   d) Self-reliance

Q.135) The Bhakti Movement in South India was led by:
   a) Kabir
   b) Mirabai
   c) Alvars and Nayanars
   d) Guru Nanak

Q.136) The Preamble of the Indian Constitution was inspired by which country's constitution?
   a) United States
   b) United Kingdom
   c) France
   d) Canada

Q.137) The First Five-Year Plan in India focused on:
   a) Industrial growth
   b) Agricultural development
   c) Infrastructure development
   d) Education reforms

Q.138) The Revolt of 1857 is also known as:
   a) The First War of Independence
   b) The Peasant Revolt
   c) The Sepoy Mutiny
   d) The Great Uprising

Q.139) The Right to Constitutional Remedies allows citizens to:
   a) Make new laws
   b) Amend the Constitution
   c) Approach the court for enforcement of rights
   d) Elect the President

Q.140) The Green Revolution primarily benefited which region of India?
   a) Eastern India
   b) Western India
   c) Northern India
   d) Southern India

Q.141) The Battle of Buxar (1764) was fought between:
   a) British and French
   b) British and Marathas
   c) British and the combined forces of Mir Qasim, Shuja-ud-Daula, and Shah Alam II
   d) British and Tipu Sultan

Q.142) The Montagu-Chelmsford Reforms were introduced in which year?
a) 1909
b) 1919
c) 1927
d) 1935

Q.143) The Regulating Act of 1773 was passed to:
a) Abolish slavery
b) Improve the administration of the East India Company
c) Grant independence to India
d) Establish the Indian Penal Code

Q.144) Land reforms in post-independence India focused on:
a) Industrial growth
b) Redistribution of land
c) Promotion of trade
d) Privatization of land

Q.145) The Battle of Haldighati (1576) was fought between:
a) Akbar and Rana Sanga
b) Akbar and Maharana Pratap
c) Humayun and Sher Shah Suri
d) Babur and Ibrahim Lodi

Q.146) The Dandi March was launched as part of which movement?
a) Non-Cooperation Movement
b) Swadeshi Movement
c) Civil Disobedience Movement
d) Quit India Movement

Q.147) Panchayati Raj was introduced in India in which year?
a) 1950
b) 1959
c) 1965
d) 1972

Q.148) Who among the following was known as the "Tiger of Mysore"?
a) Haider Ali
b) Tipu Sultan
c) Krishna Deva Raya
d) Shivaji

Q.149) The Jallianwala Bagh Massacre took place in which year?
a) 1915
b) 1919
c) 1922
d) 1925

Q.150) The Ryotwari System was introduced by:
a) Lord Curzon
b) Lord Cornwallis
c) Thomas Munro
d) Lord Dalhousie