

DSSSB OCT NOV DEC 2025 Exam

Test Date	13/12/2025
Test Time	1:00 PM - 3:00 PM
Subject	Physiotherapist

Section : General Intelligence and Reasoning Ability

Q.1 In a certain code language, 'FROW' is coded as '8549' and 'WORM' is coded as '6485'. What is the code for 'M' in the given code language?

- Ans**
- ☐ 1. 4
 - ☒ 2. 6
 - ☐ 3. 5
 - ☐ 4. 8

Q.2 CH 55 is related to EM 60 in a certain way. In the same way, NR 15 is related to PW 20. To which of the given options is LT 35 related, following the same logic?

- Ans**
- ☒ 1. NY 40
 - ☐ 2. MV 40
 - ☐ 3. OV 50
 - ☐ 4. MZ 45

Q.3 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is same as that on the right side of :: ?
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
X : 46 :: 14 : Y

- Ans**
- ☐ 1. X=14, Y=50
 - ☐ 2. X=14, Y=43
 - ☐ 3. X=14, Y=31
 - ☒ 4. X=15, Y=53

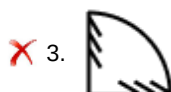
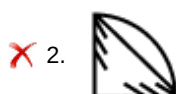
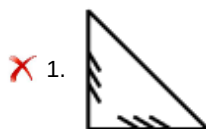
Q.4 Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. Only five boxes are kept between E and D. G is kept fifth from the top. C is kept immediately below F but above G. A is kept below D but above F. How many boxes are kept above B?

- Ans**
- ☐ 1. Three
 - ☐ 2. Six
 - ☐ 3. Four
 - ☒ 4. Five

Q.5 Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.



Ans



Q.6 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All kiwis are hornbills.

No kiwi is a penguin.

Conclusions:

(I) Some penguins are hornbills.

(II) All hornbills are penguins.

- Ans**
- ☒ 1. Only conclusion (II) follows.
- ☒ 2. Both conclusions (I) and (II) follow.
- ☒ 3. Only conclusion (I) follows.
- ☒ 4. Neither conclusion (I) nor (II) follows.

Q.7 A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on, till the topmost floor is numbered 6.

Only four people live below C. Only two people live above F. D lives immediately above E but below F. A does not live above E.

How many people live below B?

- Ans**
- ☒ 1. Five
- ☒ 2. Four
- ☒ 3. Two
- ☒ 4. Three

Q.8 If '+' means 'subtraction', '-' means 'multiplication', '×' means 'division' and '÷' means 'addition', then what will come in place of the question mark (?) in the following equation?

$$768 - 3 \div 49 + 1421 \times 7 = ?$$

- Ans**
- ☒ 1. 2150
- ☒ 2. 2195
- ☒ 3. 2055
- ☒ 4. 2210

Q.9 M, N, O, P, X, Y and Z are sitting in a straight line facing the north. No one sits to the right of O. Only three people sit between O and X. Only two people sit between X and M. N sits third to the left of P. Y sits to the immediate right of P. How many people sit between Z and M?

- Ans**
- ☐ 1. Four
 - ☐ 2. One
 - ☒ 3. Three
 - ☐ 4. Two

Q.10 In a certain code language, 'WORM' is coded as '3125' and 'GROW' is coded as '1562'. What is the code for 'G' in the given code language?

- Ans**
- ☐ 1. 1
 - ☐ 2. 2
 - ☐ 3. 5
 - ☒ 4. 6

Q.11 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. (All numbers are single-digit numbers only.)

(Left) 6 @ 8 \$ * £ 5 2 & % 4 * # 1 2 & Ω # * £ 5 (Right)

How many such symbols are there that are immediately preceded by a number and also immediately followed by another number?

- Ans**
- ☐ 1. Two
 - ☐ 2. More than two
 - ☒ 3. One
 - ☐ 4. None

Q.12 In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.

WAVE – EAWV – WAEV
SONG – GNOS – SOGN

- Ans**
- ☐ 1. BLUE – LUBE – ELUB
 - ☐ 2. LAST – TSAL – SLTA
 - ☒ 3. RUST – TSUR – RUTS
 - ☐ 4. NEAR – RENA – AERN

Q.13 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $24 + 13 \div 2 - 72 \times 6 = ?$

- Ans**
- ☐ 1. 15
 - ☐ 2. -12
 - ☐ 3. 18
 - ☒ 4. 10

Q.14 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
44 - 68
2 - 26

- Ans**
- ☐ 1. 56 - 74
 - ☒ 2. 70 - 94
 - ☐ 3. 40 - 62
 - ☐ 4. 13 - 36

Q.15 Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) T % D A @ U \$ @ K Q # E S C K Y # R Ω P & % A (Right)

How many such symbols are there that are immediately preceded by a letter and also immediately followed by another symbol?

- Ans
- ☒ 1. Two
 - ☐ 2. None
 - ☐ 3. Three
 - ☐ 4. One

Q.16 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans
- ☐ 1. LV – PY
 - ☐ 2. TB – XE
 - ☐ 3. BH – FK
 - ☒ 4. VA – ZX

Q.17 What should come in place of the question mark (?) in the given series?
18 39 67 102 144 ?

- Ans
- ☐ 1. 198
 - ☒ 2. 193
 - ☐ 3. 207
 - ☐ 4. 203

Q.18 In a certain code language, 'MASK' is coded as '9627' and 'SIDE' is coded as '1368'. What is the code for 'S' in the given code language?

- Ans
- ☐ 1. 3
 - ☒ 2. 6
 - ☐ 3. 1
 - ☐ 4. 2

Q.19 What should come in place of the question mark (?) in the given series?
241 186 136 91 51 ?

- Ans
- ☒ 1. 16
 - ☐ 2. 22
 - ☐ 3. 8
 - ☐ 4. 13

Q.20 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans
- ☐ 1. LJ – NP
 - ☐ 2. TR – VX
 - ☐ 3. DB – FH
 - ☒ 4. GE – QS

Section : **General Awareness**

Q.1 Which of the following is NOT a west-flowing river in India?

- Ans
- ☐ 1. Tapi
 - ☐ 2. Narmada
 - ☒ 3. Kaveri
 - ☐ 4. Sabarmati

Q.2 How many fundamental freedoms does Article 19 of the Indian Constitution guarantee, which are essential for the functioning of democracy and the development of individual personality?

- Ans**
- ☐ 1. Nine
 - ☐ 2. Eight
 - ☒ 3. Six
 - ☐ 4. Four

Q.3 Which of the following is a well-known rock-cut cave complex linked to Buddhist architecture?

- Ans**
- ☐ 1. Hampi
 - ☐ 2. Brihadeeswara Temple
 - ☒ 3. Ajanta Caves
 - ☐ 4. Khajuraho

Q.4 In 2025, which statutory body under the Ministry of Women and Child Development is organising a month-long national adoption awareness campaign?

- Ans**
- ☐ 1. National Commission for Protection of Child Rights (NCPCR)
 - ☐ 2. Central Social Welfare Board (CSWB)
 - ☒ 3. Central Adoption Resource Authority (CARA)
 - ☐ 4. National Institute of Public Cooperation and Child Development (NIPCCD)

Q.5 Which of the following writers is the author of the book 'The Namesake'?

- Ans**
- ☒ 1. Jhumpa Lahiri
 - ☐ 2. Salman Rushdie
 - ☐ 3. Arundhati Roy
 - ☐ 4. Amitav Ghosh

Q.6 Which of the following types of vegetation is found in Himalayan region at height of 3,600 m above the sea level?

- Ans**
- ☐ 1. Tropical
 - ☒ 2. Alpine
 - ☐ 3. Thorn and Scrubs
 - ☐ 4. Temperate

Q.7 Which ministry of the Government of India is responsible for implementing the Adi Karmayogi Abhiyan and the Tribal Village Vision 2030 Declaration?

- Ans**
- ☐ 1. Ministry of Panchayati Raj, Government of India
 - ☐ 2. Ministry of Rural Development, Government of India
 - ☒ 3. Ministry of Tribal Affairs, Government of India
 - ☐ 4. Ministry of Social Justice and Empowerment, Government of India

Q.8 What is the primary objective of the IndiaAI Mission launched by the Government of India?

- Ans**
- ☐ 1. To regulate the ethical use of social media platforms
 - ☒ 2. To build a strong AI computing infrastructure for development
 - ☐ 3. To promote AI research exclusively in agriculture
 - ☐ 4. To ban deepfake and facial recognition technologies

Q.9 Which of the following Indian artists painted the iconic Bharat Mata in 1905, that inspired people to stand and fight for India?

- Ans**
- ☐ 1. Raja Ravi Varma
 - ☒ 2. Abanindranath Tagore
 - ☐ 3. Rabindranath Tagore
 - ☐ 4. Jamini Roy

Q.10 Which of the following terms is used to describe the RBI's role in providing funds to commercial banks for long term in their need?

- Ans**
- ☒ 1. Lender of last resort
 - ☐ 2. Reserve lender support
 - ☐ 3. Last-minute lending
 - ☐ 4. Last-ditch effort funding

Q.11 Which of the following is NOT one of the ways of losing Indian citizenship according to the Citizenship Act (1955)?

- Ans**
- ☐ 1. Deprivation
 - ☐ 2. Renunciation
 - ☒ 3. Extension
 - ☐ 4. Termination

Q.12 Which farming system, introduced by the British in the 19th century, is associated with crops like tea, coffee, and bananas?

- Ans**
- ☐ 1. Subsistence farming
 - ☐ 2. Dryland farming
 - ☒ 3. Plantation farming
 - ☐ 4. Shifting cultivation

Q.13 In which year did BR Ambedkar initiate the temple entry movement that involved his followers from the Mahar caste?

- Ans**
- ☐ 1. 1945
 - ☒ 2. 1927
 - ☐ 3. 1933
 - ☐ 4. 1950

Q.14 American biologist Robert Whittaker is remembered for proposing what in the 1960s?

- Ans**
- ☐ 1. Classification of living things
 - ☐ 2. Theory of biological evolution
 - ☒ 3. Five kingdom taxonomic classification
 - ☐ 4. Binomial nomenclature

Q.15 In August 2025, which Indian Naval Ship, an indigenous stealth anti-submarine warfare corvette, successfully completed a three-day port call at Surabaya, Indonesia?

- Ans**
- ☐ 1. INS Shivalik
 - ☒ 2. INS Kadmatt
 - ☐ 3. INS Kiltan
 - ☐ 4. INS Satpura

Q.16 At the 2025 Para Shooting World Cup held in Al Ain, Dubai, who won the gold medal in the Women's 10 metre Air Rifle Standing SH1 event?

- Ans**
- ☒ 1. Avani Lekhara
 - ☐ 2. Wannipa Leungvilai
 - ☐ 3. Anna Besnon
 - ☐ 4. Ruben Van De Kerkhof

Q.17 What is the name of the process used to separate the components of a liquid mixture through selective evaporation and condensation?

- Ans**
- ☐ 1. Sublimation
 - ☒ 2. Distillation
 - ☐ 3. Chromatography
 - ☐ 4. Filtration

Q.18 On October 1, 2025, India is set to operationalise its first Free Trade Agreement (FTA) with which European bloc under the Trade and Economic Partnership Agreement (TEPA)?

- Ans**
- ☐ 1. Organisation for Economic Co-operation and Development (OECD)
 - ☐ 2. European Union (EU)
 - ☐ 3. Nordic Council
 - ☒ 4. European Free Trade Association (EFTA)

Q.19 On which of the following days is the Union Budget typically presented in the Indian Parliament?

- Ans**
- ☐ 1. On the last working day of March
 - ☐ 2. On the first working day of March
 - ☒ 3. On the first working day of February
 - ☐ 4. On the last working day of February

Q.20 In July 2024, after the resignation of Manoj Soni from the top post of UPSC, who was appointed as the new Chairperson of the Union Public Service Commission?

- Ans**
- ☐ 1. Ajay Kumar
 - ☐ 2. Raj Shukla
 - ☐ 3. Suman Sharma
 - ☒ 4. Preeti Sudan

Section : **Arithmetical and Numerical Ability**

Q.1 A trader gains 19% by selling an article after two successive discounts of 52% and 55% on its marked price. If the cost price of the article is increased by 20%, then what single discount should he now give on the same marked price to get the same profit percentage as earlier?

- Ans**
- ☐ 1. 85.10%
 - ☒ 2. 74.08%
 - ☐ 3. 77.24%
 - ☐ 4. 79.80%

Q.2 The monthly income of a person is ₹7,550. If his income increases by 20%, then what will his new monthly income be?

- Ans**
- ☐ 1. ₹9,030
 - ☐ 2. ₹9,040
 - ☒ 3. ₹9,060
 - ☐ 4. ₹9,050

Q.3 Express the value of $\frac{3}{10} + \frac{5}{100} + \frac{7}{1000} + \frac{8}{10000}$ in decimal form.

- Ans**
- ☐ 1. 0.8573
 - ☐ 2. 0.7385
 - ☐ 3. 0.5837
 - ☒ 4. 0.3578

- Q.4** The following table indicates the percentage of students admitted into 12th standard in 5 different colleges A, B, C, D and E in a town. The total number of students is 2000. Study the table carefully and answer the question that follows.

College	Percentage of students admitted
A	20%
B	15%
C	20%
D	20%
E	25%

The number of students in colleges A, C and D taken together is what percentage of the total number of students in all the five colleges?

- Ans**
- ☐ 1. 68
 - ☐ 2. 50
 - ☐ 3. 72
 - ☒ 4. 60

- Q.5** Which of the ratios given in the options is the smallest?

- Ans**
- ☒ 1. 11 : 55
 - ☐ 2. 19 : 49
 - ☐ 3. 14 : 37
 - ☐ 4. 29 : 51

- Q.6** Two pipes A and B can fill a tank in 14 hours and 6 hours, respectively. If both the pipes are opened simultaneously, then how much time will be taken to fill the tank?

- Ans**
- ☐ 1. 4 hours
 - ☐ 2. 4.3 hours
 - ☒ 3. 4.2 hours
 - ☐ 4. 4.1 hours

- Q.7** A sum, when invested at 10% simple interest per annum, amounts to ₹6,720 after 4 years. What is the simple interest (in ₹) on the same sum at the same rate of interest in 1 year?

- Ans**
- ☐ 1. 240
 - ☒ 2. 480
 - ☐ 3. 1,920
 - ☐ 4. 960

- Q.8** The ratio of the heights of a right circular cone and a right circular cylinder is 5 : 3 and the ratio of the radii of their bases is 7 : 3. If the volume of the cylinder is 729 cm³, then the volume (in cm³) of the cone is:

- Ans**
- ☐ 1. 2203
 - ☐ 2. 2211
 - ☒ 3. 2205
 - ☐ 4. 2201

Q.9 If a seven-digit number 488*974 is completely divisible by 9, then the whole number in place of * will be:

- Ans
- ☐ 1. 7
 - ☒ 2. 5
 - ☐ 3. 6
 - ☐ 4. 4

Q.10 The value of $\frac{0.8 \times 0.8 \times 0.8 - 0.08 \times 0.08 \times 0.08}{8 \times 8 \times 8} =$

- Ans
- ☐ 1. 0.00999
 - ☐ 2. 0.0000999
 - ☒ 3. 0.000999
 - ☐ 4. 0.0999

Q.11 In an election between two candidates 87% of the registered voters cast their vote and 5% of the votes polled were found invalid. The winning candidate got 75% of the valid votes and won the election by a margin of 3306 votes. How many voters were registered?

- Ans
- ☐ 1. 7996
 - ☐ 2. 8400
 - ☐ 3. 7800
 - ☒ 4. 8000

Q.12 If the rates of compound interest for the first and the second year are 5% and 9% respectively, then what is the interest earned in the 2nd year if ₹8,000 is invested at the beginning of the first year and interest is compounded annually in both the years?

- Ans
- ☒ 1. ₹756
 - ☐ 2. ₹850
 - ☐ 3. ₹576
 - ☐ 4. ₹657

Q.13 Two pipes can fill a tank in 23 hours and 32 hours, respectively. The time (in hours) required to fill the tank when both pipes are opened simultaneously is:

- Ans
- ☐ 1. $\frac{734}{54}$
 - ☐ 2. $\frac{738}{58}$
 - ☐ 3. $\frac{735}{56}$
 - ☒ 4. $\frac{736}{55}$

Q.14 Find the value of $18^{-21} \times 28^{-21} \times 5^{-21}$

- Ans
- ☐ 1. $\left(\frac{1}{2473}\right)^{21}$
 - ☒ 2. $\left(\frac{1}{2520}\right)^{21}$
 - ☐ 3. $\left(\frac{1}{2555}\right)^{21}$
 - ☐ 4. $\left(\frac{1}{2537}\right)^{21}$

Q.15 Simplify: $(13^2 - 5^2)^{\frac{3}{2}} \times 343^{\frac{2}{3}} \div \left(\frac{1}{2}\right)^{-3}$

- Ans
- ☒ 1. 10584
 - ☐ 2. 10576
 - ☐ 3. 10568
 - ☐ 4. 10582

Q.16 Five solid cubes, each of volume 125 cm^3 , are joined end to end to form a cuboid. What is the lateral surface area (in cm^2) of the cuboid?

- Ans
- ☐ 1. 155
 - ☒ 2. 300
 - ☐ 3. 308
 - ☐ 4. 272

Q.17 Evaluate: $18 - (21 - 14 \div 7)$

- Ans
- ☒ 1. -1
 - ☐ 2. -3
 - ☐ 3. 2
 - ☐ 4. 0

Q.18 How many seconds are required for a 613 m long train to cross a 942 m long tunnel, if the train travels at a speed of 18 km/hr?

- Ans
- ☒ 1. 311
 - ☐ 2. 301
 - ☐ 3. 320
 - ☐ 4. 315

Q.19 A person buys a cycle for ₹440 but because of certain urgency, he sells it for ₹340. Find his loss percentage.

- Ans
- ☐ 1. $23\frac{8}{11}\%$
 - ☒ 2. $22\frac{8}{11}\%$
 - ☐ 3. $25\frac{8}{11}\%$
 - ☐ 4. $24\frac{8}{11}\%$

Q.20 If 1 gram of gold having 10 carats of fineness, 1 gram of gold having 11 carats of fineness, 2 grams of gold having 12 carats of fineness, and 5 grams of gold having 14 carats of fineness are mixed together, find the average fineness of the resulting compound.

- Ans
- ☐ 1. $10\frac{7}{9}$ carats
 - ☐ 2. $11\frac{7}{9}$ carats
 - ☒ 3. $12\frac{7}{9}$ carats
 - ☐ 4. $13\frac{7}{9}$ carats

Q.1 Select the most appropriate option to fill in the blank.

Michael S Woodward was the author of many books _____ the history of ancient Persia.

- Ans**
- ☒ 1. about
 - ☐ 2. from
 - ☐ 3. for
 - ☐ 4. in

Q.2 Select the most appropriate option to fill in the blank.

He trained rigorously for the championship, _____ he failed to secure even a place in the finals.

- Ans**
- ☐ 1. for
 - ☐ 2. since
 - ☐ 3. until
 - ☒ 4. yet

Q.3 Identify the INCORRECTLY spelt word in the given sentence.

The disciples were excited to frequent the new library after its inaguration.

- Ans**
- ☐ 1. frequent
 - ☐ 2. excited
 - ☐ 3. disciples
 - ☒ 4. inaguration

Q.4 Select the most appropriate meaning of the given idiom.

Haste makes waste

- Ans**
- ☐ 1. Take the safe passage through the western horizon
 - ☐ 2. If you do not do anything quickly you will miss the opportunity
 - ☒ 3. If you do something too quickly you will make mistakes
 - ☐ 4. Never take the wrong path

Q.5 Select the most appropriate option to fill in the blanks. If no article is required, select the option with 'No article required'.

_____ engineer developed a prototype for _____ revolutionary gadget.

- Ans**
- ☐ 1. A; No article required
 - ☐ 2. The; No article required
 - ☒ 3. An; a
 - ☐ 4. A; the

Q.6 Select the most appropriate synonym of the given word.

Concur

- Ans**
- ☐ 1. Invert
 - ☐ 2. Confront
 - ☒ 3. Comply with
 - ☐ 4. Disagree

Q.7 Select the option that can be used as a one-word substitute for the given group of words.

A place where coins are made

- Ans**
- ☐ 1. Arsenal
 - ☒ 2. Mint
 - ☐ 3. Foundry
 - ☐ 4. Brewery

Q.8 Select the option that can be used as a one-word substitute for the given group of words.

A person who is excessively concerned with his/her own appearance or dress

- Ans
- ☒ 1. Fashionista
 - ☒ 2. Narcissist
 - ☒ 3. Dandy
 - ☒ 4. Egotist

Q.9 Select the option that rectifies the underlined incorrectly spelt word in the given sentence.

She visited the librari to study for her exams.

- Ans
- ☒ 1. liberry
 - ☒ 2. library
 - ☒ 3. libarry
 - ☒ 4. libary

Q.10 Select the most appropriate ANTONYM of the underlined word in the given sentence.
She had often seen him around her office and home.

- Ans
- ☒ 1. Much
 - ☒ 2. Rarely
 - ☒ 3. Odd
 - ☒ 4. Ever

Q.11 Select the option that can be used as a one-word substitute for the given group of words.

Connoisseur of choice food

- Ans
- ☒ 1. Glutton
 - ☒ 2. Greedy
 - ☒ 3. Gregarious
 - ☒ 4. Gourmet

Q.12 Select the most appropriate adverb to fill in the blank.

The detective examined the crime scene _____, ensuring that no detail was overlooked.

- Ans
- ☒ 1. meticulously
 - ☒ 2. hastily
 - ☒ 3. carelessly
 - ☒ 4. briefly

Q.13 Select the most appropriate meaning of the given idiom.

Raining cats and dogs

- Ans
- ☒ 1. A fight between cats and dogs
 - ☒ 2. A confused state of affairs
 - ☒ 3. A chaotic meeting
 - ☒ 4. A heavy downpour

Q.14 Parts of a sentence are given below. The first part (1) is in the correct order, while the other parts of the sentence are jumbled up. Arrange the parts in the correct order to form a meaningful and coherent sentence.

- 1) Artists often embed symbolism within their work
A) decipher historical trends
B) and allow audiences to
C) to evoke layered meanings
D) that transcend time

Ans  1. BADC
 2. DCBA
 3. BCDA
 4. CDBA

Q.15 Parts of a sentence are given below. The first part (1) is in the correct order, while the other parts of the sentence are jumbled up. Arrange the parts in the correct order to form a meaningful and coherent sentence.

- 1) Social media has revolutionised interpersonal communication
A) leading to both
B) altered emotional dynamics
C) and the erosion
D) of traditional interaction patterns

Ans  1. ADBC
 2. ACDB
 3. ACBD
 4. ABCD

Comprehension:

Read the passage below and answer the questions that follow.

Urbanisation refers to the rapid growth of cities and towns as more people move into urban areas in search of better opportunities. This process brings many benefits, such as improved infrastructure, better healthcare, more schools, and easier access to services. However, it also leads to several environmental challenges.

As cities expand, pollution from vehicles, factories, and waste increases, causing harm to air and water quality. Natural spaces like forests and wetlands are cleared to make room for buildings and roads, leading to habitat loss and a decline in biodiversity. Urban areas also require large amounts of water, food, and energy, which puts pressure on the earth's limited natural resources. Despite these problems, urbanisation is expected to continue. It is predicted that by 2050, about 70% of the world's population will live in cities. Therefore, it is essential to promote sustainable development that balances city growth with care for the environment.

SubQuestion No : 16

Q.16 What can be inferred about why people move to cities?

Ans  1. They prefer smaller communities.
 2. They want to live close to nature.
 3. They want to avoid pollution.
 4. They are looking for better opportunities and services.

Comprehension:

Read the passage below and answer the questions that follow.

Urbanisation refers to the rapid growth of cities and towns as more people move into urban areas in search of better opportunities. This process brings many benefits, such as improved infrastructure, better healthcare, more schools, and easier access to services. However, it also leads to several environmental challenges.

As cities expand, pollution from vehicles, factories, and waste increases, causing harm to air and water quality. Natural spaces like forests and wetlands are cleared to make room for buildings and roads, leading to habitat loss and a decline in biodiversity. Urban areas also require large amounts of water, food, and energy, which puts pressure on the earth's limited natural resources. Despite these problems, urbanisation is expected to continue. It is predicted that by 2050, about 70% of the world's population will live in cities. Therefore, it is essential to promote sustainable development that balances city growth with care for the environment.

SubQuestion No : 17

Q.17 Which inference is correct about the impact of urbanisation on wildlife?

Ans  1. Urbanisation creates more habitats for wildlife.
 2. Wildlife populations increase as cities grow.
 3. Wildlife habitats are destroyed, harming animals.
 4. Urbanisation has no effect on wildlife.

Comprehension:

Read the passage below and answer the questions that follow.

Urbanisation refers to the rapid growth of cities and towns as more people move into urban areas in search of better opportunities. This process brings many benefits, such as improved infrastructure, better healthcare, more schools, and easier access to services. However, it also leads to several environmental challenges. As cities expand, pollution from vehicles, factories, and waste increases, causing harm to air and water quality. Natural spaces like forests and wetlands are cleared to make room for buildings and roads, leading to habitat loss and a decline in biodiversity. Urban areas also require large amounts of water, food, and energy, which puts pressure on the earth's limited natural resources. Despite these problems, urbanisation is expected to continue. It is predicted that by 2050, about 70% of the world's population will live in cities. Therefore, it is essential to promote sustainable development that balances city growth with care for the environment.

SubQuestion No : 18

Q.18 What does the passage imply about the future of urban areas?

- Ans**
- ☒ 1. Increased demand for educational facilities
 - ☒ 2. Loss of biodiversity due to habitat destruction
 - ☒ 3. Decrease in population density
 - ☒ 4. Improved living standards for all residents

Comprehension:

Read the passage below and answer the questions that follow.

Urbanisation refers to the rapid growth of cities and towns as more people move into urban areas in search of better opportunities. This process brings many benefits, such as improved infrastructure, better healthcare, more schools, and easier access to services. However, it also leads to several environmental challenges. As cities expand, pollution from vehicles, factories, and waste increases, causing harm to air and water quality. Natural spaces like forests and wetlands are cleared to make room for buildings and roads, leading to habitat loss and a decline in biodiversity. Urban areas also require large amounts of water, food, and energy, which puts pressure on the earth's limited natural resources. Despite these problems, urbanisation is expected to continue. It is predicted that by 2050, about 70% of the world's population will live in cities. Therefore, it is essential to promote sustainable development that balances city growth with care for the environment.

SubQuestion No : 19

Q.19 What is a significant concern related to natural resources in rapidly growing urban areas?

- Ans**
- ☒ 1. Cities require large amounts of water, food, and energy.
 - ☒ 2. Cities have unlimited natural resources.
 - ☒ 3. Cities produce their own food and energy easily.
 - ☒ 4. Cities reduce the demand for natural resources.

Comprehension:

Read the passage below and answer the questions that follow.

Urbanisation refers to the rapid growth of cities and towns as more people move into urban areas in search of better opportunities. This process brings many benefits, such as improved infrastructure, better healthcare, more schools, and easier access to services. However, it also leads to several environmental challenges. As cities expand, pollution from vehicles, factories, and waste increases, causing harm to air and water quality. Natural spaces like forests and wetlands are cleared to make room for buildings and roads, leading to habitat loss and a decline in biodiversity. Urban areas also require large amounts of water, food, and energy, which puts pressure on the earth's limited natural resources. Despite these problems, urbanisation is expected to continue. It is predicted that by 2050, about 70% of the world's population will live in cities. Therefore, it is essential to promote sustainable development that balances city growth with care for the environment.

SubQuestion No : 20

Q.20 What is implied about the importance of sustainable development?

- Ans**
- ☒ 1. It stops people from moving to cities.
 - ☒ 2. It ignores environmental concerns.
 - ☒ 3. It encourages building more factories and roads.
 - ☒ 4. It helps balance city growth with protecting the environment.

Section : Hindi Language and Comprehension

Q.1 दिए गए विकल्प में 'आम' शब्द का तत्सम रूप है -

- Ans**
- ☒ 1. आम्र
 - ☒ 2. अहीर
 - ☒ 3. अश्रु
 - ☒ 4. अमिया

Q.2	'तरुणी' का अर्थ है -
Ans	1. बालिका 2. युवती 3. नदी 4. नौका
Q.3	क - उसने आज ख - लाने को कहा ग - मीठे आम घ - किसी से उपरोक्त वाक्य खण्डों का उचित क्रम चुनें-
Ans	1. घ क ख ग 2. क घ ग ख 3. घ ग क ख 4. क ख ग घ
Q.4	'जिसका मन किसी दूसरी ओर लगा हो' वाक्यांश के लिए एक शब्द होगा-
Ans	1. अमना 2. आमनस्क 3. अन्यमनस्क 4. दूरमना
Q.5	दिए गए वाक्य में अशुद्ध वर्तनी वाले शब्द का चयन करें- बरसात में मेंढक टरते हैं
Ans	1. टरते हैं 2. बरसात 3. में 4. मेंढक
Q.6	नीचे दिये गये विकल्पों में कौन-सा विकल्प 'संयोजक क्रिया विशेषण' का है?
Ans	1. जब बारिश ही नहीं हुई, तो फ़सल अच्छी कैसे होगी 2. नजमा एक होनहार लड़की है 3. आसिम हर बार प्रथम स्थान पर आता है. 4. सोफिया धीरे-धीरे स्वस्थ हो रही है
Q.7	दिए गए वाक्यों में से अतिरिक्त वाक्य का चयन कीजिए ।
Ans	1. संस्कृति का बाह्य पक्ष भी होता है 2. और आंतरिक भी 3. उसका बाह्य पक्ष आंतरिक का प्रतिबिम्ब नहीं तो उससे सम्बन्धित अवश्य रहता है । 4. पुराने साहित्य में शोक और करुणा के चित्र मिलते हैं ।
Q.8	'लेना एक न देना दो' मुहावरे का अर्थ निम्न में से है--
Ans	1. अधिक लेना और कम लौटाना 2. किसी से कोई मतलब नहीं रखना 3. स्वार्थी होना 4. किसी को न उधार देना न किसी से लेना
Q.9	दिये गये विकल्पों में से सही कारक चुनकर वाक्य को सार्थक ढंग से पूरा करें अभय मिठाई खाई ।
Ans	1. को 2. द्वारा 3. से 4. ने

Q.10 तुम अपना दाइत्व निभाओ ।
वाक्य के किस अंश में अशुद्धि है ?

- Ans
- ☐ 1. निभाओ ।
 - ☐ 2. तुम
 - ☒ 3. दाइत्व
 - ☐ 4. अपना

Q.11 उचित 'परिमाण वाचक' क्रिया विशेषण चुनकर निम्न वाक्य पूर्ण करें-
'_____ सोच-समझ कर बोलिए'

- Ans
- ☐ 1. परस्पर
 - ☐ 2. सद्यमुच
 - ☐ 3. भली-भाँति
 - ☒ 4. ज़रा

Q.12 'थोथा चना बाजे घना' का अर्थ है

- Ans
- ☐ 1. दिखावा करना
 - ☐ 2. नाम के विपरीत गुण होना
 - ☒ 3. बढ़-चढ़कर बातें करना
 - ☐ 4. कटु वचन बोलना

Q.13 'केशरी' शब्द किसका पर्यायवाची है?

- Ans
- ☐ 1. घोड़े का
 - ☐ 2. सियार का
 - ☒ 3. सिंह का
 - ☐ 4. हाथी का

Q.14 दिए गए विकल्प में 'कलुष' शब्द का अनेकार्थी नहीं है -

- Ans
- ☐ 1. कलंक
 - ☐ 2. अपवित्र
 - ☒ 3. अंश
 - ☐ 4. पाप

Q.15 दिए गए विकल्पों में शुद्ध वाक्य का चयन करें -

- Ans
- ☐ 1. बच्चे अधम मचा रहे है |
 - ☐ 2. बच्चे ऊधम मचा रहे हैं |
 - ☐ 3. बच्चे उद्धम मचा रहे है |
 - ☒ 4. बच्चे उधम मचा रहे हैं |

Comprehension:

निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के लिए सही विकल्प चुनकर लिखें -

भारतेंदु के जीवन का उद्देश्य अपने देश की उन्नति के मार्ग को साफ़-सुथरा और लंबा-चौड़ा बनाना था । उन्होंने इसके काँटों और कंकड़ों को दूर किया । उसके दोनों ओर सुंदर-सुंदर क्यारियाँ बनाकर उनमें मनोरम फल-फूलों के वृक्ष लगाए । इस प्रकार उसे सुरम्य बना दिया कि भारतवासी उस पर आनंदपूर्वक चलकर अपनी उन्नति के इष्ट स्थान तक पहुँच सकें । यद्यपि भारतेंदु जी अपने लगाए हुए वृक्षों को फल-फूलों से लदा न देख सके, फिर भी हमको यह कहने में किसी प्रकार का संकोच नहीं होगा कि वे जीवन के उद्देश्य में पूर्णतया सफल हुए । हिंदी भाषा और साहित्य में जो उन्नति आज दिखाई पड़ रही है उसके मूल कारण भारतेंदु जी हैं और उन्हें ही इस उन्नति के बीज को रोपित करने का श्रेय प्राप्त है ।

SubQuestion No : 16

Q.16 भारतेंदु के जीवन का उद्देश्य क्या था ?

- Ans
- ☐ 1. मार्गों को साफ़ रखना
 - ☐ 2. देश का विकास करना
 - ☒ 3. हिंदी भाषा और साहित्य की उन्नति
 - ☐ 4. भारतीय संस्कृति का विकास

Comprehension:

निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के लिए सही विकल्प चुनकर लिखें -

भारतेंदु के जीवन का उद्देश्य अपने देश की उन्नति के मार्ग को साफ़-सुथरा और लंबा-चौड़ा बनाना था। उन्होंने इसके काँटों और कंकड़ों को दूर किया। उसके दोनों ओर सुंदर-सुंदर क्यारियाँ बनाकर उनमें मनोरम फल-फूलों के वृक्ष लगाए। इस प्रकार उसे सुरम्य बना दिया कि भारतवासी उस पर आनंदपूर्वक चलकर अपनी उन्नति के इष्ट स्थान तक पहुँच सकें। यद्यपि भारतेंदु जी अपने लगाए हुए वृक्षों को फल-फूलों से लदा न देख सके, फिर भी हमको यह कहने में किसी प्रकार का संकोच नहीं होगा कि वे जीवन के उद्देश्य में पूर्णतया सफल हुए। हिंदी भाषा और साहित्य में जो उन्नति आज दिखाई पड़ रही है उसके मूल कारण भारतेंदु जी हैं और उन्हें ही इस उन्नति के बीज को रोपित करने का श्रेय प्राप्त है।

SubQuestion No : 17

Q.17 भारतेंदु ने अपने जीवन में क्या किया?

- Ans
- ☒ 1. हिंदी भाषा और साहित्य की उन्नति के बीज बोए
 - ☐ 2. रास्तों को सुंदर बनाया
 - ☐ 3. फल-फूलों के वृक्ष लगाए
 - ☐ 4. भारतीयों को आनंद प्रदान करने का प्रयास किया

Comprehension:

निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के लिए सही विकल्प चुनकर लिखें -

भारतेंदु के जीवन का उद्देश्य अपने देश की उन्नति के मार्ग को साफ़-सुथरा और लंबा-चौड़ा बनाना था। उन्होंने इसके काँटों और कंकड़ों को दूर किया। उसके दोनों ओर सुंदर-सुंदर क्यारियाँ बनाकर उनमें मनोरम फल-फूलों के वृक्ष लगाए। इस प्रकार उसे सुरम्य बना दिया कि भारतवासी उस पर आनंदपूर्वक चलकर अपनी उन्नति के इष्ट स्थान तक पहुँच सकें। यद्यपि भारतेंदु जी अपने लगाए हुए वृक्षों को फल-फूलों से लदा न देख सके, फिर भी हमको यह कहने में किसी प्रकार का संकोच नहीं होगा कि वे जीवन के उद्देश्य में पूर्णतया सफल हुए। हिंदी भाषा और साहित्य में जो उन्नति आज दिखाई पड़ रही है उसके मूल कारण भारतेंदु जी हैं और उन्हें ही इस उन्नति के बीज को रोपित करने का श्रेय प्राप्त है।

SubQuestion No : 18

Q.18 काँटों और कंकड़ों से क्या अभिप्राय है?

- Ans
- ☐ 1. आस-पास फैली गंदगी
 - ☒ 2. मार्ग की रुकावटें
 - ☐ 3. पौधों के काँटे और रास्ते के कंकड़
 - ☐ 4. मन के बुरे भाव

Comprehension:

निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के लिए सही विकल्प चुनकर लिखें -

भारतेंदु के जीवन का उद्देश्य अपने देश की उन्नति के मार्ग को साफ़-सुथरा और लंबा-चौड़ा बनाना था। उन्होंने इसके काँटों और कंकड़ों को दूर किया। उसके दोनों ओर सुंदर-सुंदर क्यारियाँ बनाकर उनमें मनोरम फल-फूलों के वृक्ष लगाए। इस प्रकार उसे सुरम्य बना दिया कि भारतवासी उस पर आनंदपूर्वक चलकर अपनी उन्नति के इष्ट स्थान तक पहुँच सकें। यद्यपि भारतेंदु जी अपने लगाए हुए वृक्षों को फल-फूलों से लदा न देख सके, फिर भी हमको यह कहने में किसी प्रकार का संकोच नहीं होगा कि वे जीवन के उद्देश्य में पूर्णतया सफल हुए। हिंदी भाषा और साहित्य में जो उन्नति आज दिखाई पड़ रही है उसके मूल कारण भारतेंदु जी हैं और उन्हें ही इस उन्नति के बीज को रोपित करने का श्रेय प्राप्त है।

SubQuestion No : 19

Q.19 'मनोरम' का अर्थ है:

- Ans
- ☒ 1. मन को रमाने वाला
 - ☐ 2. बड़े-बड़े
 - ☐ 3. विभिन्न आकारों के
 - ☐ 4. दूर-दूर तक

Comprehension:

निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के लिए सही विकल्प चुनकर लिखें -

भारतेंदु के जीवन का उद्देश्य अपने देश की उन्नति के मार्ग को साफ़-सुथरा और लंबा-चौड़ा बनाना था। उन्होंने इसके काँटों और कंकड़ों को दूर किया। उसके दोनों ओर सुंदर-सुंदर क्यारियाँ बनाकर उनमें मनोरम फल-फूलों के वृक्ष लगाए। इस प्रकार उसे सुरम्य बना दिया कि भारतवासी उस पर आनंदपूर्वक चलकर अपनी उन्नति के इष्ट स्थान तक पहुँच सकें। यद्यपि भारतेंदु जी अपने लगाए हुए वृक्षों को फल-फूलों से लदा न देख सके, फिर भी हमको यह कहने में किसी प्रकार का संकोच नहीं होगा कि वे जीवन के उद्देश्य में पूर्णतया सफल हुए। हिंदी भाषा और साहित्य में जो उन्नति आज दिखाई पड़ रही है उसके मूल कारण भारतेंदु जी हैं और उन्हें ही इस उन्नति के बीज को रोपित करने का श्रेय प्राप्त है।

SubQuestion No : 20

Q.20 प्रस्तुत गद्यांश का उपयुक्त शीर्षक है:

- Ans
- ☐ 1. सुंदर भारत देश
 - ☐ 2. देश की उन्नति
 - ☐ 3. आनंद प्राप्ति
 - ☒ 4. भारतेंदु के जीवन का लक्ष्य

Section : Discipline1

Q.1 The main enzyme present in gastric juice is:

- Ans
- ☐ 1. Lipase
 - ☐ 2. Amylase
 - ☐ 3. Sucrase
 - ☒ 4. Pepsin

Q.2 Which hormone regulates blood glucose level by decreasing it?

- Ans**
- ☐ 1. Glucagon
 - ☐ 2. Adrenaline
 - ☒ 3. Insulin
 - ☐ 4. Cortisol

Q.3 Which hormone increases water reabsorption in the kidneys?

- Ans**
- ☐ 1. Cortisol
 - ☒ 2. Antidiuretic hormone (ADH)
 - ☐ 3. Aldosterone
 - ☐ 4. Parathyroid hormone

Q.4 Which of the following changes commonly occurs in the cardiovascular system with aging?

- Ans**
- ☐ 1. Increased elasticity of arteries
 - ☒ 2. Increased arterial stiffness
 - ☐ 3. Increased maximum heart rate
 - ☐ 4. Decreased systolic blood pressure

Q.5 Which of the following cells are primarily responsible for killing virus-infected cells in the adaptive immune system?

- Ans**
- ☐ 1. B lymphocytes
 - ☐ 2. Neutrophils
 - ☒ 3. Cytotoxic T cells (CD8+)
 - ☐ 4. Thrombocytes

Q.6 A patient with tuberculosis has lung granulomas containing epithelioid cells and giant cells. This type of inflammation is called:

- Ans**
- ☐ 1. Acute Inflammation
 - ☐ 2. Subacute inflammation
 - ☒ 3. Chronic granulomatous inflammation
 - ☐ 4. Chronic non-specific inflammation

Q.7 Deficiency of which vitamin causes scurvy?

- Ans**
- ☒ 1. Vitamin C
 - ☐ 2. Vitamin E
 - ☐ 3. Vitamin B12
 - ☐ 4. Vitamin D

Q.8 Which sulcus separates the frontal lobe from the parietal lobe?

- Ans**
- ☐ 1. Longitudinal fissure
 - ☐ 2. Lateral sulcus (Sylvian fissure)
 - ☐ 3. Calcarine sulcus
 - ☒ 4. Central sulcus

Q.9 What is one of the products of anaerobic glycolysis?

- Ans**
- ☒ 1. Lactic acid
 - ☐ 2. Oxygen
 - ☐ 3. Creatinine
 - ☐ 4. Calcium

Q.10 Which of the following is the main storage form of lipids in the human body?

- Ans**
- ☐ 1. Phospholipids
 - ☒ 2. Triglycerides
 - ☐ 3. Cholesterol
 - ☐ 4. Steroids

Q.11 A 25-year-old man develops sudden itching, wheezing, and hypotension after a wasp sting. This reaction is an example of which type of hypersensitivity?

- Ans**
- ☒ 1. Type II – Antibody-mediated (cytotoxic)
 - ☐ 2. Type I – Anaphylactic (IgE-mediated)
 - ☒ 3. Type III – Immune complex-mediated
 - ☒ 4. Type IV – T cell-mediated (delayed)

Q.12 A large fold of peritoneum that hangs down from the greater curvature of the stomach like an apron and covers the loops of intestines is called:

- Ans**
- ☐ 1. Greater Omentum
 - ☒ 2. Transverse Mesocolon
 - ☒ 3. Lesser Omentum
 - ☒ 4. Mesentery

Q.13 Which part of the hypothalamus is primarily responsible for heat loss regulation in the body?

- Ans**
- ☒ 1. Ventromedial hypothalamus
 - ☐ 2. Anterior hypothalamus
 - ☒ 3. Posterior hypothalamus
 - ☒ 4. Lateral hypothalamus

Q.14 Which of the following is an example of a structural protein?

- Ans**
- ☒ 1. Trypsin
 - ☒ 2. Albumin
 - ☒ 3. Insulin
 - ☐ 4. Collagen

Q.15 Which mediator of acute inflammation is most responsible for increasing vascular permeability by causing endothelial cell contraction?

- Ans**
- ☒ 1. Prostaglandin E2
 - ☒ 2. Tumor necrosis factor (TNF)
 - ☒ 3. Bradykinin
 - ☐ 4. Histamine

Q.16 The primary respiratory control center is located in the:

- Ans**
- ☒ 1. Hypothalamus
 - ☒ 2. Cerebellum
 - ☐ 3. Medulla oblongata
 - ☒ 4. Pons

Q.17 The cerebellar damage does not cause paralysis, but movements become abnormal. What is the correct explanation?

- Ans**
- ☐ 1. The cerebellum provides coordination and timing of movement
 - ☒ 2. The cerebellum directly controls muscle strength
 - ☒ 3. The cerebellum generates spinal reflexes independently
 - ☒ 4. The cerebellum initiates voluntary movement

Q.18 Which hormone mainly stimulates the development of ovarian follicles in females?

- Ans**
- ☒ 1. Oxytocin
 - ☐ 2. Follicle stimulating hormone
 - ☒ 3. Prolactin
 - ☒ 4. Luteinizing hormone

Q.19 The head of the pancreas lies within the concavity of the:

- Ans**
- ☒ 1. Stomach
 - ☒ 2. Spleen
 - ☒ 3. Liver
 - ☐ 4. Duodenum

Q.20 A 50-year-old patient with high fever and mild dehydration undergoes a kidney biopsy. The tubular epithelial cells appear swollen with small clear cytoplasmic vacuoles, and the organ appears slightly enlarged on gross examination. Nuclei are intact. Which of the following best describes the cellular change in this patient?

- Ans**
- ☐ 1. Coagulative Necrosis
 - ☒ 2. Hydropic change
 - ☐ 3. Fatty change
 - ☐ 4. Apoptosis

Section : **Discipline2**

Q.1 Which of the following is the primary therapeutic goal of EMG biofeedback in patients with hemiplegia following a stroke?

- Ans**
- ☐ 1. To reduce joint stiffness by passive stretching
 - ☐ 2. To prevent pressure sores in immobilized limbs
 - ☐ 3. To increase bone mineral density in paretic limbs
 - ☒ 4. To enhance voluntary motor control of weak muscles

Q.2 Which of the following is the most common site to palpate the pulse during fitness assessment in adults?

- Ans**
- ☐ 1. Popliteal artery
 - ☒ 2. Radial artery
 - ☐ 3. Carotid artery
 - ☐ 4. Femoral artery

Q.3 The patient reports mild tenderness over the supraspinatus. The therapist wants to ensure safety and optimal healing during ultrasound. Which practice is essential?

- Ans**
- ☐ 1. Avoid using a coupling agent
 - ☐ 2. Increase intensity if pain persists
 - ☒ 3. Move the transducer slowly over the target tissue
 - ☐ 4. Keep the transducer stationary over the tendon

Q.4 For best penetration during laser therapy, how should the laser beam be applied to the patient's skin?

- Ans**
- ☒ 1. At a right angle (90° to the surface)
 - ☐ 2. At any angle, penetration is the same
 - ☐ 3. At a shallow angle (15° to the surface)
 - ☐ 4. At an oblique angle (45° to the surface)

Q.5 During the proliferative phase of soft tissue healing, which of the following processes is most prominent?

- Ans**
- ☐ 1. Increase in tensile strength of mature scar
 - ☐ 2. Breakdown of old scar tissue
 - ☐ 3. Hemostasis by platelet plug formation
 - ☒ 4. Angiogenesis and collagen deposition

Q.6 A 35-year-old office worker has chronic neck and shoulder tightness. EMG shows high upper trapezius activity at rest. The physiotherapist wants the patient to learn to reduce muscle tension voluntarily. Which intervention is most appropriate?

- Ans**
- ☐ 1. TENS Therapy
 - ☒ 2. Biofeedback
 - ☐ 3. Trapezius strengthening
 - ☐ 4. Ultraviolet Radiation

Q.7 Which condition is most commonly managed using the Bobath (Neuro-Developmental Treatment) approach?

- Ans**
- ☒ 1. Stroke with hemiplegia
 - ☐ 2. Motor Neuron Disease
 - ☐ 3. Multiple Sclerosis
 - ☐ 4. Parkinsonism

Q.8 The Cyriax technique of soft tissue mobilisation is also known as:

- Ans**
- ☐ 1. Effleurage
 - ☐ 2. Petrissage
 - ☒ 3. Deep transverse friction massage
 - ☐ 4. Myofascial muscle release

Q.9 In the knee joint, which mobilisation technique is commonly applied to improve knee flexion?

- Ans**
- ☐ 1. Superior glide of the patella
 - ☒ 2. Posterior glide of the tibia on femur
 - ☐ 3. Anterior glide of the tibia on femur
 - ☐ 4. Lateral glide of the patella

Q.10 Which of the following is the primary purpose of joint mobilisation in manual therapy?

- Ans**
- ☐ 1. To strengthen surrounding muscles
 - ☐ 2. To prevent ligament tears
 - ☐ 3. To increase bone density
 - ☒ 4. To reduce joint stiffness and improve range of motion

Q.11 A barrel-shaped chest is most commonly associated with which of the following conditions?

- Ans**
- ☐ 1. Asthma
 - ☒ 2. Chronic Obstructive Pulmonary Disease (COPD)
 - ☐ 3. Carcinoma of alveoli
 - ☐ 4. Pneumothorax

Q.12 When is the FACES PAIN SCALE primarily used?

- Ans**
- ☐ 1. Multidimensional assessment including function and participation
 - ☒ 2. Measuring pain in children aged 3-12 years
 - ☐ 3. Locating pain on a body chart
 - ☐ 4. Assessing pain in adults with dementia

Q.13 A patient with a subacute ankle sprain has edema, pain, and reduced dorsiflexion. The therapist decides to use IFT. Which beat frequency is most suitable to primarily reduce pain and promote circulation?

- Ans**
- ☐ 1. 4000-6000 Hz
 - ☐ 2. 8000-2500 HZ
 - ☐ 3. 1–10 Hz
 - ☒ 4. 80–120 Hz

Q.14 Which of the following is a contraindication for the use of infrared radiant heat therapy?

- Ans**
- ☒ 1. Peripheral vascular disease with impaired circulation
 - ☐ 2. Muscle stiffness after immobilization
 - ☐ 3. Osteoarthritis of the knee
 - ☐ 4. Chronic low back pain

Q.15 For a patient with deep-seated muscular pain, the physiotherapist prefers a high-frequency current (27.12 MHz) with penetration up to several centimeters. Which modality is most appropriate?

- Ans**
- ☐ 1. Ultrasound Therapy
 - ☒ 2. Short Wave Therapy
 - ☐ 3. Infra-Red Therapy
 - ☐ 4. Micro-Wave Therapy

Q.16 During shortwave diathermy (SWD) treatment, which of the following conditions poses the greatest risk of deep tissue burns?

- Ans**
- ☒ 1. Patient with metal implant in treatment area
 - ☐ 2. Patient with mild osteoarthritis
 - ☐ 3. Patient with chronic low back pain
 - ☐ 4. Patient with controlled hypertension

Q.17 Which type of electrical current is commonly used in nerve conduction studies (NCS)?

- Ans**
- ☒ 1. Short-duration pulsed current
 - ☐ 2. Alternating current (AC)
 - ☐ 3. Direct current (DC)
 - ☐ 4. Galvanic current

Q.18 Which electrode arrangement in inductive shortwave diathermy produces the greatest depth of heating in muscle tissue?

- Ans**
- ☐ 1. Drum electrode applied with spacing from skin
 - ☐ 2. Monopolar electrode with condenser pads
 - ☐ 3. Parallel plate condenser electrodes placed close together
 - ☒ 4. Cable electrode wrapped circumferentially around the limb

Q.19 In rehabilitation, pelvic floor biofeedback is most widely used for:

- Ans**
- ☐ 1. Reducing spasticity in calf muscles
 - ☒ 2. Improving voluntary relaxation in overactive bladder
 - ☐ 3. Increasing quadriceps strength after knee surgery
 - ☐ 4. Enhancing balance during gait training

Q.20 A patient scores 39 out of 56 on the Berg Balance Scale. How should this score be interpreted?

- Ans**
- ☐ 1. Severe balance impairment – bedridden
 - ☐ 2. Low fall risk – independent mobility
 - ☒ 3. Moderate fall risk – needs supervision
 - ☐ 4. High fall risk – dependent for mobility

Section : Discipline3

Q.1 Which of the following is an example of a local relaxation technique applied to the upper limb?

- Ans**
- ☐ 1. Standing with both arms abducted overhead
 - ☒ 2. Placing the forearm supported on pillows with elbow flexed
 - ☐ 3. Walking with arms swinging freely
 - ☐ 4. Full body supine relaxation with diaphragmatic breathing

Q.2 A physiotherapist begins passive range of motion (PROM) exercises for a shoulder that was immobilised after injury. Which of the following best reflects what PROM CANNOT achieve?

- Ans**
- ☐ 1. Provide movement when the patient is unable to do so actively
 - ☐ 2. Maintain joint mobility and prevent stiffness
 - ☐ 3. Stimulate circulation and aid joint nutrition
 - ☒ 4. Prevent muscle atrophy and improve strength

Q.3 Water that is above 39°C in a hydrotherapy pool is primarily used for:

- Ans**
- ☒ 1. Passive relaxation and heat therapy
 - ☐ 2. Edema reduction
 - ☐ 3. Cardiovascular endurance training
 - ☐ 4. Active exercise and strengthening

Q.4 Which stretch technique is most appropriate to lengthen the Iliotibial (IT) band?

- Ans**
- ☒ 1. Standing cross-leg lateral lean
 - ☐ 2. Prone knee bending with hip extension
 - ☐ 3. Thomas stretch
 - ☐ 4. Supine straight leg raise

Q.5 Diaphragmatic breathing helps conserve energy by:

- Ans**
- ☐ 1. Increasing anxiety and stress
 - ☒ 2. Increasing efficiency of oxygen exchange
 - ☐ 3. Increasing use of accessory muscles
 - ☐ 4. Increasing mechanical work of breathing

Q.6 The main physiological effect of a contrast bath (alternating hot and cold immersion) is:

- Ans**
- ☒ 1. Alternating vasodilation and vasoconstriction ("vascular pumping")
 - ☐ 2. Muscle strengthening through hydrostatic pressure
 - ☐ 3. Sustained vasodilation of blood vessels
 - ☐ 4. Sustained vasoconstriction of blood vessels

Q.7 Inspiratory hold breathing technique should be used with caution in patients with:

- Ans**
- ☐ 1. Pulmonary Hypertension
 - ☐ 2. Pneumonia
 - ☐ 3. Atelectasis
 - ☒ 4. Chronic Obstructive Pulmonary Disorder (COPD)

Q.8 A physiotherapist instructs a patient to perform gentle cervical stretches. What is the primary purpose of neck stretching?

- Ans**
- ☒ 1. Increase joint flexibility and mobility
 - ☐ 2. Improve bone density
 - ☐ 3. Increase joint stability
 - ☐ 4. Increase muscle strength

Q.9 Which of the following is a absolute contraindication for using the Hubbard tank?

- Ans**
- ☒ 1. Uncontrolled epilepsy
 - ☐ 2. Open wounds with sterile dressing
 - ☐ 3. Extensive burns
 - ☐ 4. Chronic arthritis

Q.10 Which position is most effective for stretching the latissimus dorsi muscle?

- Ans**
- ☐ 1. Standing with arms crossed in front of the chest
 - ☐ 2. Supine, arms at the side
 - ☐ 3. Sitting, shoulders adducted and elbows flexed
 - ☒ 4. Standing, trunk flexed forward, arms overhead

Q.11 Which of the following is a commonly used relaxation technique in physiotherapy?

- Ans**
- ☐ 1. Maitland Mobilisation
 - ☒ 2. Jacobson's Technique
 - ☐ 3. Aerobic Exercises
 - ☐ 4. Bruce Technique

Q.12 A hot foot bath is commonly used to:

- Ans**
- ☒ 1. Induce relaxation
 - ☐ 2. Improve alertness in patients with fatigue
 - ☐ 3. Reduce peripheral circulation
 - ☐ 4. Treat acute ankle sprain immediately after injury

Q.13 A 14-year-old adolescent presents with a right thoracic curve noted during a school screening. Which of the following is the most reliable method to assess the structural severity of scoliosis?

- Ans**
- ☐ 1. Adams forward bend test
 - ☐ 2. Rib hump angle measurement
 - ☒ 3. Cobb's angle measurement on radiograph
 - ☐ 4. Limb length discrepancy

Q.14 Which of the following best describes the therapeutic advantage of active assisted movements compared to purely active movements?

- Ans**
- ☐ 1. They eliminate the need for patient effort
 - ☒ 2. They allow movement when patient's muscle strength is insufficient
 - ☐ 3. They increase muscle hypertrophy more effectively
 - ☐ 4. They provide maximum resistance for strengthening

Q.15 A 26-year-old patient with C7 level quadriplegia has partial upper limb control (elbow extension and wrist function preserved) but no effective finger function. Which type of wheelchair will be most appropriate?

- Ans**
- ☐ 1. Reclining wheelchair only for positioning
 - ☐ 2. Sip-and-puff (mouth-controlled) wheelchair
 - ☐ 3. Standard manual wheelchair
 - ☒ 4. Lightweight manual wheelchair with hand-rim modifications

Q.16 Which breathing exercise specifically emphasizes expansion of the lower lateral chest wall?

- Ans**
- ☐ 1. Diaphragmatic breathing
 - ☐ 2. Glossopharyngeal breathing
 - ☐ 3. Apical breathing
 - ☒ 4. Costal breathing

Q.17 During normal gait, which of the following muscle actions occurs during initial contact (heel strike)?

- Ans**
- ☐ 1. Isometric work of Hip Flexors
 - ☐ 2. Concentric work of Quadriceps
 - ☒ 3. Eccentric work of Tibialis Anterior
 - ☐ 4. Concentric work of Tibialis Anterior

Q.18 Which of the following effects of therapeutic exercise is most directly related to joint health and cartilage nutrition?

- Ans**
- ☒ 1. Enhanced diffusion of synovial fluid with movement
 - ☐ 2. Increased vital capacity of lungs
 - ☐ 3. Increased venous return through muscle pump
 - ☐ 4. Decrease in resting heart rate

Q.19 Which type of walker is most suitable for a patient who has poor balance and needs maximum stability?

- Ans**
- ☒ 1. Standard walker (without wheels)
 - ☐ 2. Two-wheeled walker
 - ☐ 3. Three-wheeled walker
 - ☐ 4. Rollator with four wheels

Q.20 Which of the following muscle imbalances is most commonly associated with faulty kyphotic posture?

- Ans**
- ☒ 1. Tight gastrocnemius and weak tibialis anterior
 - ☒ 2. Weak hamstrings and tight quadriceps
 - ☒ 3. Tight pectoral muscles and weak thoracic extensors
 - ☒ 4. Weak abdominal muscles and tight hip flexors

Section : **Discipline4**

Q.1 The primary purpose of postural drainage in cystic fibrosis is:

- Ans**
- ☒ 1. Strengthen respiratory muscles
 - ☒ 2. Reduce heart rate
 - ☒ 3. Facilitate mucus clearance using gravity
 - ☒ 4. Increase lung compliance only

Q.2 During pulmonary rehabilitation, a patient with chronic obstructive pulmonary disease (COPD) reports dyspnea-associated chest pain during daily activities. Which type of exercise is most effective in alleviating this pain and improving function?

- Ans**
- ☒ 1. Short bouts of anaerobic sprinting to improve tolerance.
 - ☒ 2. High-resistance strength training for upper limbs only.
 - ☒ 3. Breathing exercises combined with low-intensity endurance training.
 - ☒ 4. Static stretching exercises for thoracic mobility alone.

Q.3 During early fracture immobilisation, which strategy directly helps reduce venous congestion and edema?

- Ans**
- ☒ 1. Deep massage over fracture site
 - ☒ 2. Passive joint mobilisation through cast
 - ☒ 3. Gentle active exercises of adjacent joints
 - ☒ 4. Continuous high-intensity electrical stimulation

Q.4 Which method facilitates diaphragmatic activity in neurophysiologic respiratory therapy?

- Ans**
- ☒ 1. Proprioceptive Neuromuscular Facilitation (PNF) for respiration
 - ☒ 2. High-resistance inspiratory load
 - ☒ 3. Incentive spirometry
 - ☒ 4. TENS over intercostal muscles

Q.5 A patient with acute left ventricular failure complains of breathlessness while lying down. Which position is most appropriate to alleviate dyspnea?

- Ans**
- ☒ 1. Supine lying with a single pillow
 - ☒ 2. Upright sitting with feet supported
 - ☒ 3. Trendelenburg position
 - ☒ 4. Side-lying on the left side

Q.6 During mobility exercises in a patient with heart failure, which sign indicates the need to stop exercise immediately?

- Ans**
- ☒ 1. Mild fatigue
 - ☒ 2. Warm extremities
 - ☒ 3. Excessive breathlessness (disproportionate dyspnea on exertion)
 - ☒ 4. Increased heart rate

Q.7 For ischemic ulcers in Peripheral Vascular Disease, which electrotherapy current promotes angiogenesis and epithelialisation?

- Ans**
- ☒ 1. Galvanic currents
 - ☒ 2. Transcutaneous Electrical Nerve Stimulation (TENS)
 - ☒ 3. Cold Laser
 - ☒ 4. Short Wave Diathermy (SWD)

Q.8 A physiotherapist examines a patient with shoulder pain radiating down the arm. To rule out cervical radiculopathy, which approach reflects differential diagnosis?

- Ans**
- ☐ 1. Ordering a laboratory test for blood glucose levels
 - ☐ 2. Recording the patient's resting heart rate and blood pressure
 - ☒ 3. Assessing cervical spine movements and performing Spurling's test
 - ☐ 4. Applying ultrasound therapy to the shoulder joint

Q.9 According to clinical guidelines, how frequently should postoperative incentive spirometry be performed, with 10–15 breaths per session followed by coughing?

- Ans**
- ☐ 1. Once a day
 - ☐ 2. Once every 12 hours
 - ☒ 3. Every 2 hours
 - ☐ 4. Only when the patient feels breathlessness

Q.10 Which pranayama technique is recommended in the management of anxiety-related breathlessness in cardio-respiratory patients?

- Ans**
- ☒ 1. Nadi Shodhana Pranayama (Alternate Nostril Breathing)
 - ☐ 2. Kapalabhati Pranayama (Skull Shining Breath)
 - ☐ 3. Ujjayi Pranayama (Victorious Breath)
 - ☐ 4. Bhastrika Pranayama (Bellows Breath)

Q.11 The formal beginning of modern physiotherapy as a profession is most often associated with:

- Ans**
- ☐ 1. Founding of the World Confederation for Physical Therapy (1951)
 - ☐ 2. Introduction of massage therapy in ancient China
 - ☐ 3. Development of hydrotherapy in ancient Rome
 - ☒ 4. Establishment of the Chartered Society of Physiotherapy in the UK (1894)

Q.12 A physiotherapist prescribes inspiratory muscle training (IMT) for a patient with chronic respiratory insufficiency. Which of the following exercise methods is most effective in directly strengthening the diaphragm?

- Ans**
- ☐ 1. High-resistance weight training of the upper limb muscles
 - ☒ 2. Breathing against a threshold device with resistance during inspiration
 - ☐ 3. Pursed-lip breathing practiced during quiet expiration
 - ☐ 4. Incentive spirometry performed only during expiration

Q.13 Which of the following is considered a core component of the physiotherapy profession according to professional practice standards?

- Ans**
- ☐ 1. Conducting laboratory investigations for diagnosis
 - ☐ 2. Designing surgical interventions for musculoskeletal disorders
 - ☐ 3. Prescribing medications for pain relief
 - ☒ 4. Promoting health and preventing disability through exercise and education

Q.14 A physiotherapist is educating a patient with acute bronchitis about the purpose of nebulisation therapy. Which of the following best describes its primary benefit?

- Ans**
- ☐ 1. To replace systemic steroid therapy completely
 - ☒ 2. To deliver medication directly to the airways for rapid action
 - ☐ 3. To prevent chest wall stiffness during prolonged illness
 - ☐ 4. To permanently increase lung compliance

Q.15 What is the main purpose of a physical assessment in physiotherapy?

- Ans**
- ☐ 1. Measuring blood sugar levels
 - ☒ 2. Evaluating physical function and impairments
 - ☐ 3. Identifying the patient's insurance
 - ☐ 4. Prescribing diet plans

Q.16 Which condition is most commonly associated with diffuse alveolar damage, severe hypoxemia, and requires prone positioning to improve oxygenation?

- Ans**
- ☒ 1. Acute Respiratory Distress Syndrome (ARDS)
 - ☐ 2. Asthma
 - ☐ 3. Cystic fibrosis
 - ☐ 4. Pneumothorax

Q.17 Which of the following best represents the role of a physiotherapist as an educator in community health promotion?

- Ans**
- ☐ 1. Performing diagnostic laboratory tests for chronic illness
 - ☒ 2. Training patients and caregivers in home exercise programs
 - ☐ 3. Prescribing medications for musculoskeletal pain
 - ☐ 4. Designing surgical protocols for orthopedic management

Q.18 While teaching a patient with chronic obstructive pulmonary disease (COPD) about energy conservation techniques, which of the following strategies is most appropriate to recommend?

- Ans**
- ☐ 1. Avoid sitting during activities to maintain endurance.
 - ☐ 2. Perform all household tasks at once to avoid repeated exertion.
 - ☐ 3. Schedule strenuous activities during the late evening.
 - ☒ 4. Use adaptive equipment (e.g., long-handled reachers) to minimize bending.

Q.19 Which ergonomic advice should be given to a patient with heart failure to reduce unnecessary cardiovascular stress during daily living?

- Ans**
- ☐ 1. Perform all chores in standing position
 - ☒ 2. Keep commonly used objects within easy reach
 - ☐ 3. Use high shelves to store daily-use items
 - ☐ 4. Hold breath while lifting objects to protect the spine

Q.20 Who is known as the 'Father of Medicine'?

- Ans**
- ☐ 1. Galen
 - ☐ 2. Aristotle
 - ☒ 3. Hippocrates
 - ☐ 4. Avicenna

Section : Discipline5

Q.1 The mini-mental state examination (MMSE) is mainly used to assess:

- Ans**
- ☐ 1. Sensory function
 - ☐ 2. Motor coordination
 - ☒ 3. Cognitive function
 - ☐ 4. Emotional status

Q.2 Which of the following is correctly matched under neurotic, stress-related, and somatoform disorders (ICD-10, F40-F48)?

- Ans**
- ☐ 1. Bipolar affective disorder
 - ☐ 2. Delusional disorder
 - ☐ 3. Schizoaffective disorder
 - ☒ 4. Obsessive-compulsive disorder

Q.3 Which of the following is considered a primary group in sociology?

- Ans**
- ☐ 1. A university student association
 - ☒ 2. A family
 - ☐ 3. A political party
 - ☐ 4. A trade union

Q.4	The hypothesis which states that there is no significant difference or relationship between variables is called:
Ans	☒ 1. Directive hypothesis ☒ 2. Alternative hypothesis ☒ 3. Research hypothesis ☒ 4. Null hypothesis
Q.5	A patient is diagnosed with catatonic schizophrenia. Which of the following symptoms is most characteristic of this type?
Ans	☒ 1. Disorganized behavior and flat affect ☒ 2. Prominent hallucinations without motor disturbance ☒ 3. Motoric immobility, mutism, or excessive purposeless motor activity ☒ 4. Only residual negative symptoms without active psychosis
Q.6	Which of the following best defines statistics in health research?
Ans	☒ 1. A technique for proving a hypothesis correct. ☒ 2. A method of recording patient names and addresses. ☒ 3. The science of collecting, organizing, analyzing, and interpreting data. ☒ 4. The process of presenting only numerical results without explanation.
Q.7	According to ICD-10 classification, a person with an IQ between 50-69 falls under which category of mental retardation?
Ans	☒ 1. Profound mental retardation ☒ 2. Moderate mental retardation ☒ 3. Severe mental retardation ☒ 4. Mild mental retardation
Q.8	In sociology, culture is best defined as:
Ans	☒ 1. The set of learned behaviors, beliefs, customs, and values shared by a group ☒ 2. The genetic patterns that determine human behavior ☒ 3. The process of political decision-making ☒ 4. Only the fine arts and literature of a society
Q.9	The branch of psychology that studies growth and changes throughout life is:
Ans	☒ 1. Developmental Psychology ☒ 2. Social Psychology ☒ 3. Educational Psychology ☒ 4. Clinical Psychology
Q.10	Which research method is most commonly used in sociology of health to study patterns of illness in large populations?
Ans	☒ 1. Experimental ☒ 2. Observation ☒ 3. Survey ☒ 4. Case study
Q.11	A physiotherapy patient receiving government-funded rehabilitation benefits is an example of:
Ans	☒ 1. Formal Social Control ☒ 2. Informal Social Control ☒ 3. Social Security ☒ 4. Peer Pressure
Q.12	Which type of research collects numerical data and uses statistical analysis?
Ans	☒ 1. Exploratory research ☒ 2. Descriptive research ☒ 3. Qualitative research ☒ 4. Quantitative research

Q.13 A physiotherapist wants to study the effect of a new exercise protocol in post-stroke patients at a rehabilitation center. She divides patients into groups based on gender (male/female) and then randomly selects equal numbers from each group. Which sampling technique is being used?

- Ans**
- ☒ 1. Stratified random sampling
 - ☐ 2. Cluster sampling
 - ☐ 3. Systematic sampling
 - ☐ 4. Simple random sampling

Q.14 A community differs from other types of social groups primarily because:

- Ans**
- ☐ 1. It consists only of blood relatives
 - ☐ 2. It has no influence on health or behavior
 - ☐ 3. It is always temporary in nature
 - ☒ 4. It is based on geographic area and a sense of belonging

Q.15 A physiotherapy student collects data on 50 patients' pain scores, number of exercise repetitions, and walking distances. To make the data easier to understand and compare, she organises it into rows and columns in a table. What is this process called?

- Ans**
- ☐ 1. Data analysis
 - ☐ 2. Classification
 - ☐ 3. Coding
 - ☒ 4. Tabulation

Q.16 A patient repeatedly checks whether the gas stove is turned off. He feels anxious until he verifies it multiple times. This behaviour is best described as:

- Ans**
- ☐ 1. Phobia
 - ☒ 2. Compulsion
 - ☐ 3. Delusion
 - ☐ 4. Obsession

Q.17 A 12-year-old girl is restless and fidgety during class, blurts out answers, interrupts conversations, and finds it hard to wait her turn. However, she performs well academically when interested in a task. Which diagnosis best fits?

- Ans**
- ☐ 1. Specific Phobia
 - ☐ 2. Autism Spectrum disorder
 - ☒ 3. ADHD – Predominantly Hyperactive-Impulsive Type
 - ☐ 4. Anxiety Disorder

Q.18 A patient with a head injury, reports that straight lines appear wavy when looking at objects. This perceptual disturbance is best described as:

- Ans**
- ☒ 1. Illusion
 - ☐ 2. Obsession
 - ☐ 3. Delusion
 - ☐ 4. Hallucination

Q.19 Which of the following is the most important criterion when formulating a research problem statement in physiotherapy?

- Ans**
- ☐ 1. It should be based only on the researcher's personal interest.
 - ☐ 2. It must guarantee positive results before study begins.
 - ☒ 3. It must be feasible, researchable, and significant to practice.
 - ☐ 4. It should avoid review of existing literature.

Q.20 A physiotherapy student is collecting data on patients' pain scores, number of exercise repetitions, and walking distances. She wants the data to be precise, measurable, and relevant for her study. Which characteristic of the data is being described here?

- Ans**
- ☐ 1. Sensitivity
 - ☐ 2. Reliability
 - ☒ 3. Validity
 - ☐ 4. Objectivity

