SHRI VISHWAKARMA SKILL UNIVERSITY

(State University enacted under the Government of Haryana Act 25, 2016)

Ref. No.: SVSU/2026/Estt./4049 **Date: 26.11.2026**

NOTICE

Subject: Question Paper alongwith Answer Key of written examination for the posts of Skill Assistant Professor(s) in various subjects against Advt. No.: SVSU/Estt./T-14-32/2026.

With reference to the above subject cited above, the Question Paper and Answer Key for the posts of Skill Assistant Professor(s) in below mentioned subjects, for which the written test was conducted on 25.11.2026, are being uploaded on the University website for information of all the candidates.

S. No.	Subjects/Disciplines	Advt. No
1.	Agriculture (Specialization in Soil Science/Agronomy/Plant Breeding/Genetics/Seed Technology	T-14/2026
2.	Biology	T-15/2026
3.	Fine Arts	T-22/2026
4.	Yoga	T-32/2026

The representations/objection if any alongwith evidence in this regard may be submitted by 28.11.2026 upto 05:00 PM through email at recruitment.teaching@svsu.ac.in.

Please note that the representations/objections if any, will not be considered/entertained, after the above said date and time.

Registrar

SHRI VISHWAKARMA SKILL UNIVERSITY

(Established by the State Legislature Act No. 25 of 2016)
Dudhola, Palwal (Haryana)

Test Booklet No. [redacted]

Entrance Examination for
Assistant Professor in Agriculture- 2026

Name of the Candidate ..... OMR Sheet No. .....

Roll No. of the Candidate ..... Signature of the Candidate.....

Date of Examination ..... Signature of the Invigilator(s)

1. .....
2. .....

Time: 1 ½ Hours (90 Minutes) **Maximum Marks: 50**

IMPORTANT INSTRUCTIONS

i. The question paper is in the form of Test-Booklet containing **Fifty (50)** questions. Each question carries four answer choices, (A), (B), (C) and (D); out of which only one is correct. Each question carries 1 mark.

ii. On receipt of the Test-Booklet, the candidate should check it to ensure that it contains all the **50** questions. Discrepancy, if any, should be reported to the invigilator immediately.

iii. The candidate should write his/her roll number at the places provided on the cover page of the Test-Booklet and OMR Sheet only.

iv. No second Test Booklet and OMR Sheet will be issued to a candidate. Therefore, the candidates are advised to be careful in handling and marking the answers on the OMR.

v. For every correct answer, **One (1) mark will be awarded.** For every unattempted question, zero (0) mark shall be awarded. **There will be Negative Marking for wrong answers and 0.25** marks shall be deducted for each wrong answer.

vi. To mark the answers on the OMR, candidate should **darken** the appropriate circle with Blue pen.

vii. In case it is found that the candidate has darkened /marked more than one circle/option, no marks shall be awarded for such questions.

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Q 1: A plant whose genome carries a **gene transferred from another species** by recombinant DNA technology and expressed to produce a gene product is called:

A. Hybrid organism
B. Genetically modified organism (GMO)
C. Genetically impure organism
D. High yielding organism

Q 2: Cole crops, root crops and legumes come under the ambit of which of the following?

A. Arboriculture
B. Viticulture
C. Pomology
D. Olericulture

Q 3: What type of **biofertilizer** is *Azotobactor* ?

A. Phosphate solubilizing bacteria
B. Mycorrhizal bacteria
C. Symbiotic Nitrogen fixing bacteria
D. Free living Nitrogen fixing bacteria

Q 4: Match the items in Column I and Column II given below:

Column I	Column II
Category of Parasite	**Plant parasite**
A. Semi-root parasite	1. *Cuscuta* (Dodder)
B. Holo-root parasite	2. *Striga* (Witchweed)
C. Semi-stem parasite	3. *Loranthus*
E. Holo-stem parasite	4. *Orobanche* (Broomrape)

Find out the **CORRECT** answer from the following choices:

A. A-2; B-4; C-3; D-1

B. A-3; B-2; C-4; D-1

C. A-2; B-3; C-4; D-1

D. A-1; B-3; C-4; D-2

Q 5: Match the crops and their varieties in Columns I and II given below:

Column I	Column II
Crop	**Variety**
A. Apple	1. Blood red
B. Grapes	2. Coorg honey dew
C. Papaya	3. Anab-e-shahi
D. Citrus	4. Ambri

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Find out the **CORRECT** answer from the following choices:

A. A-4; B-3; C-2; D-1

B. A-3; B-2; C-4; D-1

C. A-2; B-4; C-3; D-1

D. A-1; B-3; C-4; D-2

Q 6: Match the items in Column I and Column II given below:

Column I	Column II
Practice	**Area**
A. Jhum culture	1. Deccan region
B. Wet agriculture	2. Manipur
C. Dry farming	3. Kerala
D. Conservation agriculture	4. Haryana

Find out the **CORRECT** answer from the following choices:

A. A-2; B-3; C-1; D-4

B. A-3; B-2; C-4; D-1

C. A-2; B-4; C-3; D-1

D. A-1; B-3; C-4; D-2

Q 7: Match the items in Columns I and II given below:

Column I	Column II
A. *Parthenium*	1. Natural insecticide
B. *Chenopodium*	2. Obnoxious and allergic weed
C. *Pyrethrum*	3. Weed of wheat crop
D. *Azolla*	4. Green manure

Find out the **CORRECT** answer from the following choices:

A. A-2; B-3; C-1; D-4

B. A-3; B-2; C-4; D-1

C. A-2; B-1; C-3; D-4

D. A-1; B-3; C-4; D-2

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Q 8: "Indian Horticulture", a semi technical Magazine published by ICAR is:

A. Annual

B. Half yearly

C. Quarterly

D. Bimonthly

Q 9: Apple Scab disease is caused by which group of pathogens amongst the following?

A. Viruses

B. Bacteria

C. Fungi

D. Nematodes

Q 10: Who among the following is the **Minister of State (MoS)** for Agriculture and Farmers' welfare in India?

A. Shivraj Singh Chauhan

B. Ram Nath Thakur

C. Ramdas Athawale

D. Narinder Singh Tomar

Q 11: Priming in Tobacco refers to:

A. Removal of Branches

B. Removal of Leaves

C. Removal of Inflorescence

D. Removal of tips

Q 12: Sunflower oil is recommended for heart patients since it contains high percentage of which of the following **unsaturated fatty acids**?

A. Lauric acid

B. Palmitoleic acid

C. Linolenic acid

D. Linoleic acid

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Q 13: Which of the following crops is sensitive to both **drought and excessive moisture** conditions?

A. Pearl millet

B. Maize

C. Chickpea

D. Sorghum

Q 14: Of the following ICAR institutes, which one is located in the **state of Haryana**?

A. Central Soil Salinity Research Institute

B. Central Soil and Water Conservation Research and Training InstituteSalinity Research Institute Maize

C. Central Plantation Crop Research Institute

D. Central Tuber Crop Research Institute

Q 15: Consider the following statements about **TEST CROSS**

(1.) It's a type of Back cross
(2.) It gives a F2 dihybrid cross ratio of 1:1:1:1
(3.) It gives a modified F2 dihybrid cross ratio of 9:3:4
(4.) It gives F2 dihybrid cross ratio of 12:3:1

Find out the answer from the following choices having **CORRECT** statements about the test cross?

A. (1) and (3) are correct

B. (1) and (4) are correct

C. (1) and (2) are correct

D. (3) and (4) are correct

Q 16: Given below are some pairs of the diseases and the crops in which these diseases are found:

Disease		**Crop**
(1.) Red Rot disease	-	Sugarcane
(2.) Downy Mildews	-	Grapes
(3.) Ear Cockle disease	-	Maize
(4.) Tundu disease	-	Wheat

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Find out the **CORRECT** matches between the diseases and the crops from the choices given: below

A. (1), (2) and (3) are correct

B. (1), (3) and (4) are correct

C. (2), (3) and (4) are correct

D. (1), (2) and (4) are correct

Q 17: Given below are some pairs of the types of seeds and the colour tags assigned to them.

Type of seed	**Colour tag**
(1.) Breeder Seed	White
(2.) Certified Seed	Blue
(3.) Foundation Seed	Golden Yellow
(4.) Truthfully labelled Seed	Opal Green

Find out the **CORRECT** matches between the types of seeds and the colour tags assigned to them from the choices given below:

A. (1), (2) and (3) are correct

B. (1), (3) and (4) are correct

C. (2) and (4) are correct

D. (1) and (4) are correct

Q 18: Given below are some pairs of the plant processes and the crops in which these processes are found/practiced.

Process	**Crop**
(1.) Geocarpy	Groundnut
(2.) Ratooning	Sugarcane
(3.) SRI technique	Rice
(4.) Dapog Method	Nursery raising technique

Find out the **CORRECT** matches between the processes and the crops from the choices given below:

A. (1), (2) and (3) only

B. (1), (3) and (4) only

C. (2), (3) and (4) only

D. (1), (2), (3) and (4) are all correct

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Q 19: Given below are some pairs of Instruments used for measuring various parameters related to plants.

Instrument		Purpose
(1.) Leaf Area Meter	-	Crop Canopy
(2.) Psychrometer	-	Soil Moisture
(3.) Irrometer	-	Soil atmospheric tension
(4.) Pressure Plate	-	Relative humidity

Find out the **WRONG** matches between the instruments and the purpose from the following choices:

A. (1) and (3) wrong

B. (3) and (4) are wrong

C. (2) and (4) are wrong

D. (1) and (4) are wrong

Q 20: During seed germination, **seed coat ruptures** due to which of the following physiological phenomenon?

A. Differentiation of the Cotyledons

B. Massive glycolysis in the Endosperm and the Cotyledons

C. Sudden increase in Cell division

D. Massive imbibition of water

Q 21: Which of the following formulae is used to calculate the **Real Value of Seed**?

A. Purity Percentage x Germination Percentage / 100

B. Purity Percentage x 100 / Germination Percentage

C. 100 / Purity Percentage x Germination Percentage

D. Purity Percentage + Germination Percentage / 100

Q 22: The comprehensive system of **Soil Classification** is based on

A. Soil colour and vegetation

B. Soil environment factors

C. Measureable soil properties

D. Intrinsic properties of soil

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Q 23: Which of the following statements is **NOT TRUE** about CHLOROPLAST?

A. It contains DNA as its genetic material

B. It produces ATP

C. It has an electron transport chain

D. It contains transcriptional but no translational apparatus

Q 24: Which of the following is not a **WEED** of the *Oryza sativa* crop?

A. *Cyperus iria*

B. *Echinocloa* spp.

C. *Chenopodium album*

D. *Eleucine indica*

Q 25: Organic Certificate of an **organic farm** is valid for:

A. One Year

B. Two Years

C. Three Years

D. Four Years

Q 26: According to **Bray 's mobility concept**, which among the following elements is mobile in plants but immobile in soil?

A. Nitrogen

B. Phosphorus

C. Boron

D. Zinc

Q 27: Which of the following **light absorbing pigment** is present in almost all the oxygenic photosynthetic organisms?

A. Phycobillins

B. Beta Carotene

C. Chlorophyll a

D. Chlorophyll b

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Q 28: Which of the following transgenic crops, is **officially permitted** for commercial cultivation in India?

A. Bt Brinjal

B. Bt Cotton

C. Bt Mustard

D. Bt Soyabean

Q 29: The **Nif gene** which is the most widely used molecular marker for identification of Nitrogen fixing organisms is:

A. Nif B

B. Nif H

C. Nif M

D. Nif N

Q 30: Identify the **WRONG** statement about Genetic Code of the following:

A. A codon is triplet of nucleotides

B. During translation the codons are read in a non-overlapping fashion

C. The amino acid sequence of a protein is a linear sequence of contiguous triplets.

D. In a given single stranded DNA / mRNA, all possible reading frames are likely to encode a given protein.

Q 31: In floriculture, **Gibberellins** are often used to

A. Inhibit flowering

B. Promote seed dormancy

C. Promote root growth

D. Induce early flowering

Q 32: Yellow Vein Mosaic is the viral disease of which of the following crops?

A. Papaya

B. Ladyfinger

C. Banana

D. Sugarcane

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Q 33: The term **Organic Farming** was first coined by:

A. Bill Mollison

B. Lord Northbourne

C. Rudolf Stainer

D. Masanobu Fukuoka

Q 34: In the **International Union of Soil Science classification system**, fine sand has a size range of:

A. 0.2 - 2.0 mm

B. 0.02 – 0.2 mm

C. 0.002 – 0.02 mm

D. < 0.002 mm

Q 35: The **end products** of the light dependent reaction of Photosynthesis is:

A. Oxygen and Glucose

B. Carbon dioxide and Glucose

C. Oxygen and ATP

D. Glucose and ATP

Q 36: Which of the following major global organisations approved India's proposal to observe an **International Year of Millets** (in 2023)?

A. World Health Organisation (WHO)

B. World Trade Organisation (WTO)

C. United Nation Educational, Scientific and Cultural Organisation (UNESCO)

D. Food and Agriculture Organisation (FAO)

Q 37: What happens when a **double-stranded DNA virus** enters into the plant cell's nucleus?

A. It forms a single-stranded DNA

B. It remains as double-stranded DNA

C. It forms two single-stranded RNA

D. It forms one single-stranded RNA

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Q 38: Which of the following **nutrient** is related to the deficiency symptoms like discoloration of leaf buds, breaking and dropping of buds?

A. Molybdenum

B. Boron

C. Iron

D. Magnesium

Q 39: Millets are often referred to as '**Climate Resilient Crops**' due to which of the following?

A. They grow only in tropical rainforests

B. They require less water and can grow in poor soils

C. They are immune to all plant diseases

D. They produce their own heat during winter

Q 40: *Bacillus thuringiensis* (Bt) is a popular **biological control agent** effective against which group of pests?

A. Plant pathogens and bacteria

B. fungal wilts and rots

C. Insect pests (caterpillars and beetles)

D. Weed plants like *Parthenium*

Q 41: In which of the following pairs, the crop and its weed is **NOT CORRECTLY** matched?

A. Wheat - *Phalaris minor*

B. Maize - *Orobanche*

C. Barseem - Kasni

D. Sorghum - *Striga*

Q 42: Given below are some statements about the '**Empty Seeds**'.

1. They are very small in size
2. They lack embryo
3. They lack endosperm
4. They never germinate

Choose the answer from the following choices showing **CORRECT** statements about empty seeds:

A. Only 1 and 3 are correct

B. Only 3 and 4 are correct

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C. Only 2 and 4 are correct

D. Only 2 is correct

Q 43: Given below are some pairs of crops and the method of their propagation/propagule used:

Crop		Propagule
1. Potato	-	Tubers
2. Ginger	-	Stolons
3. Sugargane	-	Stem cutting
4. Okra (Bhindi)	-	Bulbs

Find out the **INCORRECT** matches of the crops and the methods of their propagation (propagules) from the following choices:

A. Only 1 and 2 are incorrect

B. Only 3 and 4 are incorrect

C. only 1 and 3 are incorrect

D. Only 2 and 4 are incorrect

Q 44: Given below are some pairs of terms/processes and the phenomenon associated with them:

1. Glycolysis - Mitochondria
2. Shorter arm of Chromosome - p Arm
3. DNA finger printing - Alec Jeffreys
4. Histone in linker DNA - H2A

Find out the **INCORRECT** matches of the above pairs from the choices mentioned under:

A. Only 2 and 3 are incorrect

B. Only 1 and 2 are incorrect

C. Only 3 and 4 are incorrect

D. Only 1 and 4 are incorrect

Q 45: Man-made cereal *Triticale,* a genetic cross between Wheat and Rye is :

A. Autopolyploid crop

B. Allopolyploid crop

C. Aneupolyploid crop

D. Monoploid crop

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Q 46: In plant tissue culture, what **plant hormone ratio** of the following promotes root formation?

A. High Auxin to low Cytokinin

B. High Cytokinin to low Auxin

C. Equal concentration of Auxin and Cytokinin

D. Ratio of Auxin to Cytokinin plays no role

Q 47: Match the crops in column I with their varieties in column II given below:

Column I	Column II
Crop	**Variety**
A. Cotton	1. Ratna
B. Potato	2. Sujata
C. Rice	3. G-27
D. Wheat	4. Kufri Sinduri

Find out the **CORRECT** answer from the following choices:

A. A-3; B-4; C-1; D-2

B. A-3; B-2; C-4; D-1

C. A-2; B-1; C-3; D-4

D. A-1; B-4; C-3; D-2

Q 48: Match the crops in Column I with their families in column II given below:

Column I	Column II
Crop	**Family**
A. Mango	1. Rosaceae
B. Coconut	2. Anacardiaceae
C. Citrus	3. Arecaceae
D. Loquat	4. Rutaceae

Find out the **CORRECT** answer from the following choices:

A. A-2; B-3; C-1; D-4

B. A-2; B-3; C-4; D-1

C. A-2; B-1; C-3; D-4

D. A-1; B-3; C-4; D-2

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Q 49: The process of **breaking soil aggregates** in standing water to create an impermeable layer is called:

A. Terracing

B. Puddling

C. Mulching

D. Subsoiling

Q 50: Which of the following is regarded as the **King of the temperate Fruits**?

A. Mango

B. Apple

C. Peach

D. Pear

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AGRICULTURE

Q. No.	Answers	Q. No.	Answers	Q. No.	Answers	Q. No.	Answers	Q. No.	Answers
1	B	11	B	21	A	31	D	41	B
2	D	12	D	22	C	32	B	42	C
3	D	13	B	23	D	33	B	43	D
4	A	14	A	24	C	34	B	44	D
5	A	15	C	25	A	35	C	45	B
6	A	16	D	26	B	36	D	46	A
7	A	17	C	27	C	37	C	47	A
8	D	18	D	28	B	38	B	48	B
9	C	19	C	29	B	39	B	49	B
10	B	20	D	30	D	40	C	50	B

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(Established by the State Legislature Act No. 25 of 2016)
Dudhola, Palwal (Haryana)

Test Booklet No. [redacted]

Entrance Examination for
Assistant Professor in Biology- 2026

Name of the Candidate ..... OMR Sheet No. .....

Roll No. of the Candidate ..... Signature of the Candidate.....

Date of Examination ..... Signature of the Invigilator(s)

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2. .....

Time: 1 ½ Hours (90 Minutes) **Maximum Marks: 50**

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1. Processing and sorting of proteins for transport from or into cells takes place in:

a. Endoplasmic reticulum

b. Mitochondria

c. Golgi bodies

d. Glyoxisomes

2. The nucleotide sequence about 1000 bp upstream of the transcription site in eukaryotes is known as:

a. TATA- box

b. CAAT- box

c. Housekeeping genes

d. Regulatory genes

3. In bacteria, the genes encoding enzymes of a metabolic pathway are typically arranged sequentially to create a functional unit called:

a. An operon

b. A constitutive enzyme system

c. An end product repression system

d. An induction system

4. What is the main structural element of the cell wall in Gram-positive bacteria?

a. Peptidoglycan molecule

b. Cellulose + pectin

c. Chitin + cellulose

d. Lipopolysaccharide

5. Which type of RNA acts as the adapter molecule linking the genetic code (codons) on mRNA to specific amino acids?

a. mRNA

b. rRNA

c. tRNA

d. siRNA

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6. What is the biggest family of cell surface receptors?

a. Receptor Tyrosine Kinases (RTKs)

b. G-Protein-Coupled Receptors (GPCRs)

c. Ligand-gated ion channels

d. Integrins

7. During kidney differentiation, what is the main process that defines different tissue types?

a. Apoptosis

b. Differential gene expression

c. Cell migration

d. Cell division only

8. What is the metal ion at the core of the porphyrin ring in a chlorophyll molecule?

a. Magnesium

b. Calcium

c. Zinc and Iron

d. Iron

9. Which plant hormone is mainly called the "stress hormone"?

a. Auxin

b. Cytokinin

c. Abscisic Acid (ABA)

d. Gibberellin

10. Which respiratory structure do the majority of aquatic arthropods and molluscs use?

a. Lungs

b. Trachea

c. Gills

d. Skin

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11. What type of mutation happens when a nucleotide is inserted or deleted, changing the gene's reading frame?

a. Silent mutation

b. Frameshift mutation

c. Nonsense mutation

d. Point mutation

12. In what populations is genetic drift most prone to happen and randomly remove alleles?

a. Small populations

b. Populations with great diversity

c. Large populations

d. Populations with high gene flow

13. The blood group system called Rh gets its name from *Rhesus macaques*, which are found in:

a. South East Asia

b. South America

c. Africa

d. India

14. POMATO is:

a. A transgenic plant

b. A plant obtained through protoplast hybridization

c. A plant obtained by organ culture

d. A plant developed by the plant breeding method

15. Aroma in rice is due to:

a. Acetyl Choline

b. 4-benzyl pyrroline

c. 2-ethyl pyrroline

d. 2-acetyl-1-pyrroline

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16. Which disease is associated with the discovery of the holy solution, i.e., Bordeaux mixture?

a. Powdery mildew of grapes

b. Early blight of potatoes

c. Downy mildew of grapes

d. Black rust of wheat

17. The giraffe's elongated neck raises its head about 2 meters above the body. Despite this height, how does the blood still reach the head?

a. It has relatively high atrial pressure.

b. It has relatively high systolic and diastolic pressures

c. It periodically lowers its head, which increases the blood supply to the head

d. It has a network of blood vessels near the brain that acts as a pressure.

18. Any specimen cited by the author in the absence of a designated Holotype, or when more than one specimen is designated as a type, is called:

a. Syntype

b. Neotype

c. Isotype

d. Prototype

19. Which group of vertebrates maintains its body temperature internally, classifying them as endothermic?

a. Reptiles

b. Mammals

c. Fish

d. Amphibians

20. Rain can wash fertilizers into rivers, leading to various environmental issues. What can this cause?

a. Bioaccumulation

b. Biodegradation

c. Biomagnification

d. Eutrophication

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21. Members of the same plant species that are adapted to different ecological conditions are termed:

a. Ecospecies

b. Ecotype

c. Ecotone

d. Ecophene

22. Which of the following statements about FASTA is incorrect?

a. FASTA uses a 'hashing' strategy to find matches for a short stretch of identical residues with a length of k

b. The string of residues is known as blocks

c. Its stands for FAST ALL

d. It was, in fact, the first database similarity-search tool, predating the development of BLAST.

23. What computational method is employed to forecast a protein's 3D structure from its amino acid sequence?

a. Multiple sequence alignment

b. Clustering analysis

c. BLAST searches

d. Homology modelling

24. Which of the following computational approaches is primarily classified as structure-based drug design (SBDD)?

a. Pharmacophore modelling

b. Analog-based design

c. QSAR (Quantitative Structure-Activity Relationship) modelling

d. Molecular docking

25. Which of the following is not a class of bioactive metabolite from marine algae?

a. Nitrogen heterocyclics

b. Brominated phenols

c. Oxygen heterocyclics

d. Prostaglandins

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26. Which of the following bacteria is known as the "superbug" capable of cleaning up oil spills?

a. *Pseudomonas putida*

b. *Pseudomonas denitrificans*

c. *Bacillus denitrificans*

d. *Bacillus subtilis*

27. What is a typical use of agricultural biotechnology?

a. Crop rotation methods

b. Genetic modification of crops for increased yield

c. Pest control using chemical pesticides

d. Soil erosion prevention techniques

28. Which of the following conditions is most likely to be targeted by a carcinogen?

a. DNA in transcribing regions associated with the nuclear matrix

b. DNA in a replicating region associated with the nuclear matrix

c. DNA in a translational region associated with the cytoplasmic region

d. DNA in the translational region in the mitochondrial matrix

29. Identify which of the following techniques is used in gene therapy to treat genetic disorders?

a. Insertion of the adenosine deaminase (ADA) gene in SCID patients

b. Making vaccines for edible crops like potatoes

c. Artificial insemination and in vitro fertilization

d. Manufacture of the injectable hepatitis B vaccine

30. How is contrast generally increased in a typical bright-field compound microscope?

a. By using stains or dyes on the specimen

b. By lowering the objective lens

c. By reducing the light intensity

d. By increasing the total magnification

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31. An inventor designs a mechanical device and publicly announces it at a seminar prior to filing a patent. What is the probable legal result under Indian law?

a. Patent will be granted as disclosure is irrelevant

b. Patent is invalid due to prior public disclosure

c. Patent is valid if a provisional application is filed within 12 months

d. Patent is automatically valid for mechanical inventions

32. What is the main purpose of UV light in a biosafety cabinet?

a. Sterilization

b. Illumination

c. Temperature control

d. Airflow regulation

a. Fidelity

33. In which phase does penicillin, an antibiotic, inhibit cell-wall synthesis of a bacterium?

a. lag phase

b. death phase

c. log phase

d. stationary phase

34. In which family is cleavage polyembryony most commonly observed?

a. Brassicaceae

b. Orchidaceae

c. Euphorbiaceae

d. Apocynaceae

35. Which phytohormones primarily control or regulate organogenesis and morphogenesis in plant tissue culture?

a. Gibberellins and Abscisic acid

b. Auxin and Cytokinin

c. Ethylene and Jasmonic acid

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d. Brassinosteroids and Strigolactones

36. Which of the following plant hormones is recognized for delaying the aging (senescence) process?

a. Abscisic acid

b. Cytokinin

c. Ethylene

d. Jasmonic acid

37. Which scientist demonstrated that only the green parts of plants release oxygen?

a. Jan Ingenhousz

b. Joseph Priestly

c. C. Van Neil

d. T. W. Engelmann

38. What role do secondary metabolites primarily play in plants?

a. Facilitating photosynthesis

b. Defense against herbivores and pathogens

c. Nucleic acid synthesis

d. Energy storage for cellular respiration

39. The cultivation of selected or rare plant varieties in a garden is called:

a. *In situ* conservation

b. *Ex situ* conservation

c. Gene culture

d. Hybridization

40. In ruminants, which stomach chamber is responsible for fermenting cellulose?

a. Abomasum

b. Rumen

c. Omasum

d. Reticulum

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41. Which of the following algal groups yields alginic acid?

a. Brown algae

b. Red algae

c. Yellow-green algae

d. Golden algae

42. If there are 10 bivalents in prophase I, what is the number of chromosomes during Anaphase II?

a. 40

b. 30

c. 20

d. 10

43. The Nearest-Neighbour Frequency Test is performed to determine what?

a. Fidelity of synthesis

b. Polymerization of nucleotides

c. To determine the process of molecular hybridization

d. To exhibit that the true strands are polarized in opposite directions.

44. The section of the leaf's vascular strand that extends into the stem, forming the lower part of the leaf's vascular supply, is known as:

a. Leaf gap

b. Leaf trace

c. Branch gap

d. Root gap

45. Polygenic traits in crops can be identified by:

a. Gene mapping

b. QTL mapping

c. Cluster analysis

d. Tandem Array analysis

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46. In life cycles with alternation of generations, multicellular haploid forms alternate with:

a. Unicellular haploid forms

b. Unicellular diploid forms

c. Multicellular haploid forms

d. Multicellular diploid forms

47. When biologists want to examine the internal ultrastructure of cells, which microscope provides the highest resolution?

a. A confocal fluorescence microscope

b. A transmission electron microscope

c. A scanning microscope

d. A phase contrast light microscope

48. Which vector is typically used in DNA library preparation?

a. Plasmid

b. Cosmid

c. Bacteriophages

d. Fosmid

49. Which of the following is a shuttle vector?

a. Yeast Episomal Plasmid

b. Yeast Replicative Plasmid

c. Yeast Artificial Chromosome

d. Yeast Centromeric Plasmid

50. In which of the following tissues does insulin enhance glucose transport?

a. Brain

b. Red blood cells

c. Ear

d. Adipose tissues

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KEY MCQ SET A (Assistant Professor, Biology)

1	C	21	b	41	a	
2	d	22	b	42	a	
3	a	23	d	43	a	
4	a	24	d	44	b	
5	c	25	d	45	b	
6	b	26	a	46	d	
7	b	27	b	47	b	
8	a	28	a	48	b	
9	c	29	a	49	c	
10	c	30	a	50	d	
11	b	31	b			
12	a	32	a			
13	a	33	c			
14	b	34	b			
15	d	35	b			
16	c	36	b			
17	b	37	a			
18	a	38	b			
19	b	39	b			
20	d	40	a			

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SHRI VISHWAKARMA SKILL UNIVERSITY

(Established by the State Legislature Act No. 25 of 2016)
Dudhola, Palwal (Haryana)

Test Booklet No. [redacted]

Entrance Examination for
Assistant Professor in Fine Arts- 2026

Name of the Candidate ..... OMR Sheet No. .....

Roll No. of the Candidate ..... Signature of the Candidate.....

Date of Examination ..... Signature of the Invigilator(s)

1. .....
2. .....

Time: 1 ½ Hours (90 Minutes) **Maximum Marks: 50**

IMPORTANT INSTRUCTIONS

i. The question paper is in the form of Test-Booklet containing **Fifty (50)** questions. Each question carries four answer choices, (A), (B), (C) and (D); out of which only one is correct. Each question carries 1 mark.

ii. On receipt of the Test-Booklet, the candidate should check it to ensure that it contains all the **50** questions. Discrepancy, if any, should be reported to the invigilator immediately.

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Fine/Visual Arts

Assistant Professor

Time Duration: 90 Minutes **Total Marks:50**

NOTE: 0.25 marks will deduct on each wrong answer.

1. Which of the following materials are traditionally considered mediums used in three-dimensional art?

A. Marble, Clay, and Bronze

B. Oil paint, Watercolour, and Pastel

C. Graphite, Charcoal, and Ink

D. Fresco, Tempera, Gouache

2. What defines a high-key value?

A. Middle gray or darker

B. Middle gray or lighter

C. The brightest highlight

D. Pure white paint only

3.What is a cast shadow?

A. Shading on an object turned away from light

B. Flat shape area bounded by object contours

C. Dark area from an object blocking light

D. Object portion receiving direct light rays

4.What tool forces the ink to transfer to the paper during the lithography printing process?

A. A squeegee

B. A brayer

C. A scraper bar

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D. A chemical brush

5.Animation creates the illusion of movement through a rapid succession of what?

A. A single stationary painting

B. Live-action theatre performances

C. Sound effects and background music

D. A sequence of drawings, computer-generated images, or pictures

6. A cinematic technique used to focus the viewer's attention on specific imagery or detail by filling the camera frame with the subject is called a:

A. Crosscutting

B. Close-up

C. Flash-forward

D. Frame

7. Which book written by Leo Tolstoy that was published (in English) in 1898?

A. Principles of Art

B. Everyday Expressivism

C. What is Art?

D. Art and Emotion

8.In depictions of the Maravijaya (the defeat of Mara), which specific mudra (hand gesture) is the Buddha universally shown making to call the earth as his witness?

A. Bhumisparsha mudra (earth-touching gesture)

B. Dhyana mudra (gesture of meditation)

C. Abhaya mudra (gesture of fearlessness)

D. Dharmachakra mudra (turning the wheel of dharma)

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9.To which historical period does the sculpture 'Relief showing Descent of the Ganga River or Arjun's Penance' belong?

A. Chola period

B. Chalukya period

C. Pallava period

D. Rashtrakuta period

10. Which deity is depicted on the right side of the rear walls in Varaha cave, Manallapuram (Tamil Nadu) of Pallava period suggesting notions of prosperity?

A. Gajalakshmi

B. Durga

C. Bhudevi

D. Saraswati

11. What do the twelve pairs of wheels carved on the plinth of the Sun Temple (Orissa) symbolize?

A. The twelve ruling kings of the dynasty

B. The twelve hours of daylight

C. The twelve months or signs of the zodiac

D. The twelve major battles won

12. To which deity is the prominent Holysalesvara temple at Halebiḍ dedicated?

A. Viṣṇu

B. Śiva

C. Brahmā

D. Sūrya

13.Before the invention of the printing press, which of the following were the most common methods of advertising goods and services?

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A. Radio broadcasts and magazines

B. Direct mail campaigns and billboards

C. Television commercials and internet ads

D. Town criers and painted signs

14.In the context of the traditional 4 Ps of the marketing mix (Product, Price, Place, Promotion), under which "P" does advertising primarily fall?

A. Product

B. Promotion

C. Price

D. Place

15. What components make up a press advertisement?

A. Headline, logo, and slogan

B. Copy, illustration, and layout

C. Audio, video, and graphics

D. Script, storyboard, and animation

16. Why is Direct Mail Advertising described as a highly "selective" medium?

A. It can only be sent to people living in rural areas.

B. It is only used by major fashion brands.

C. It forces the reader to select and buy a product immediately.

D. It allows advertisers to use specific, targeted mailing lists.

17.Identify the types of school of landscape painting came into being in the T'ang Dynasty (618–906 AD).

1. Northern School

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2. Southern School

3. Eastern School

4. Western School

Which of the pairs given above are correctly matched?

A. 1 and 2 only

B. 1, 2, and 4 only

C. 3 and 4 only

D. 1, 2, and 3 only

18. Consider the following pairs of Indian Tribal Art forms and their primary state of origin:

1. Dokra-Chhattisgarh

2. Saura Art — Odisha

3. Pithora Painting — Tamil Nadu

4. Gond Art — Madhya Pradesh

Which of the pairs given above are correctly matched?

A. 1 and 2 only

B. 1, 2, and 4 only

C. 3 and 4 only

D. 1, 2, and 3 only

19.To which historical period does art historians traditionally date the creation of the Didarganj Cauri Bearer?

A. Indus Valley Civilization

B. Gupta Period

C. Maurya Period

D. Kushan period

20. Making an object look shorter than it really is creates the illusion of recession, termed as _____.

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A. Aerial Perspective

B. Atmospheric Perspective

C. Linear Perspective

D. Foreshortening

21. Which painting in the following list is not painted in tempera?
A. Gopal Ghose, "A Village near Mussorie"

B. Benode Behari Mukherjee, "Village shop"

C. Jamini Roy, "Three Pujaris"

D. Amrita Shergil, "Woman on Charpai"

22.The sculpture titled "Musical Construction" (1967) in wood and metal is a work by which sculptor?
A. Raghunath Singh

B. Dhanraj Bhagat

C. Piraji Sagara

D. Biman Das

23. Which of the following artist said 'Painting is 'Anand' (bliss) that purifying the soul was an essential part of being an artist'?
A. J.Sultan Ali

B. S.Dhanapal

C. K.K Hebbar

D. H.G. Gade.

24.Manjit Bawa was inspired from which of the following artist-
A. Degas' colour palate

B. Picasso's work

C. Goya's dry point

D. Michelangelo's sketches

25. Which of the following is known as "design area" in the screen-printing process?
A. Unexposed portion

B. Fabric

C. Covered with brown tape

D. Exposed portion

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26.In which technique did Benode Behari Mukherjee paint his 1946-47 "Medieval Saints" mural?
A. Fresco buono

B. Fresco secco

C. Acrylic

D. Tempera

27.Umberto Boccioni's "Development of a bottle in space" is a sculpture that belongs to
A. Cubism

B. Expressionism

C. Futurism

D. Constructivism

28. Which is not Greek Sculpture of 4th century B.C.?
A. Scopus

B. Lysippus

C. Praxiteles

D. Phidias

29.In printmaking aluminium plate is etched by which acid?
A. Nitric acid

B. Hydrochloric acid

C. Sulphuric acid

D. Caustic soda

30. 'Gates of Paradise' (1425-1452) was created by
A. Auguste Rodin

B. Lorenzo Ghiberti

C. Masaccio

D. Brunelleschi

31. Who said that "art is a significant form" in his 1914 book titled 'Art'?
A. I. A. Richards

B. Clive Bell

C. Collingwood

D. Suzanne Langer

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32. Hunting the wild boar is painted in late 18th century in
A. Pal School
B. Garhwal School
C. Bundi School
D. Guler School

33. Select the correct chronology of groups formed by Indian painters:
A. Group – 1890, Young Turks, PAG, Delhi Shilpi Chakra
B. PAG, Delhi Shilpi Chakra, Group – 1890, Young Turks
C. Young Turks, PAG, Delhi Shilpi Chakra, Group – 1890
D. Delhi Shilpi Chakra, Group – 1890, Young Turks, PAG

34. What is the Boddhisattva deer doing in the Ruru Jataka story in narrative relief work at Bharhut?
A. Rescuing a man on his back
B. Running away from the king
C. Shooting an arrow
D. Standing with the army

35. What is the pose of the main right hand Nataraja bronze statue of Chola period?
A. *Dola hasta*
B. *Bhujangatrasita*
C. *Abhaya hasta*
D. Holding a *damaru*

36. The painting "Jahangir in Darbar" is attributed to which artists?
A. Abul Fazl and Daswant
B. Basawan and Manohar
C. Bishandas and Inayat
D. Abul Hasan and Manohar

37. What is the medium used for the artwork Devi made by Jyoti Bhatt in 1970?
A. Etching on paper
B. Photography
C. Painting
D. Sculpture

38.Match the artists in Column A with their respective Prints (Printmaking) in Column B:

Column A (Artist)	Column B (Prints)
a. Mukul Chandra Dey	I. Draught (1976)
b. Nandlal Bose	II. River life (1919)
c. Ram Kinkar Baiz	III. Gandhiji (1930)

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d. Raja Ravi Varma IV Man Beating a woman (1880)

Multiple Choice Options

(A) a-II, b-III, c-I, d-IV

(B) a-III, b-II, c-IV, d-I

(C) a-I, b-IV, c-II, d-III

(D) a-II, b-I, c-III, d-IV

39. Match the artists in Column A with their associated Printmaking Technique in Column B:

Column A (Artist)	Column B (Technique)
a. Jayant Parikh	I. Lino-Cut
b. Y.K Shukla	II. Lithography
c. Naina Dalal	III. Woodcut
d. Chittaprasad	IV Etching

Multiple Choice Options

A. a-II, b-III, c-I, d-IV

B. a-III, b-II, c-IV, d-I

C. a-I, b-IV, c-II, d-III

D. a-III, b-IV, c-II, d-I

40. Identify the correct statements related to R.B. Bhaskaran?

1. Done Etching 'Marriage Photo' in 1984.

2. Done Colour Etching 'Butterfly and Flower' in 1984.

3. Done Etching 'The Conference' in 1984

4. Training in Fresco Techniques, Banasthali Vidyapith, Rajasthan (1964)

Which of the pairs given above are correctly matched?

A. 1 and 4 only

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B. 1, 2, and 4 only

C. 2 and 3 only

D. 1, 2, and 3 only

41. Identify the physical property of workable clay in which clay's ultimate hardness and non-porosity at a particular firing temperature indicated by the clarity of the tone when the fired clay is tapped.

A. Plasticity

B. Density

C. Porosity

D. Minimal Shrinkage

42. Match the Correct Pair Column A with Column B:

Column A

a. Statue of Scribe

b. Mycerinus and his queen

c. Wounded Lioness (Neo-Assyrian period)

d. Cypriote Statue

Column B

I. Metropolitan Museum, New York

II. Museum of Fine Arts, Boston

III. British Museum

IV. The Louvre, Paris

Multiple Choice Options

A. a-II, b-III, c-I, d-IV

B. a-III, b-II, c-IV, d-I

C. a-I, b-IV, c-III, d-II

D. a-IV, b-II, c-III, d-I

E.

43. The famous painting *Bubbles* (1886) by Sir John Millais was used to advertise which product?

A. Printing stones

B. Letterpress type

C. Pears soap

D. Lithographic ink

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44. Which tool is specifically described as clarifying the concept of a moving image sequence from scene to scene?

A) Storyboard

B) Website flowchart

C) Flat plan

D) Wireframe

45.What is the primary definition of typography?

A. The digital coding required to display text on a computer screen.

B. The study of historical alphabets and the evolution of writing systems.

C. The design, arrangement, and manipulation of type to make written language readable, legible, and visually appealing.

D. The digital coding required to type text on a computer screen.

46. Bronze is an alloy of metals formed by mixing which elements?

A. Copper, silver, and gold

B. Copper, iron, and tin

C. Copper, zinc, and tin

D. Copper, aluminum, and zinc

47. Which material was largely used in the construction of the Qutub Minar's upper storeys?

A. Red and buff sandstone with Marble

B. Brick and Cement

C. Limestone and concerte

D. Concrete and cement

48.Who composed the text Rasamanjari?

A. Jayadeva

B. Keshav Das

C. Raja Madhukar Shah

D. Bhanu Datta

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49.The "Maru Ragini" painting is associated with which school of painting?

A. Mughal School

B. Mewar School

C. Kangra School

D. Deccani School

50.What technique and type of colours were applied in the Hamza Nama paintings?

A. Oil painting with transparent colours

B. Gouache with transparent colours

C. Gouache with opaque colours

D. Watercolour with opaque colours

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1. A
2. B
3. C
4. C
5. D
6. B
7. C
8. A
9. C
10. B
11. C
12. B
13. D
14. B
15. B
16. D
17. A
18. B
19. C
20. D
21. D
22. B
23. A
24. D
25. A
26. B
27. C
28. D
29. D
30. B
31. B
32. C
33. C

P.T.O

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34. A
35. C
36. D
37. A
38. A
39. D
40. A
41. B
42. D
43. C
44. A
45. C
46. C
47. A
48. D
49. B
50. C

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SHRI VISHWAKARMA SKILL UNIVERSITY

(Established by the State Legislature Act No. 25 of 2016)
Dudhola, Palwal (Haryana)

Test Booklet No. [redacted]

Entrance Examination for Assistant Professor in Yoga- 2026

Name of the Candidate .....

Roll No. of the Candidate .....

Date of Examination .....

OMR Sheet No. .....

Signature of the Candidate.....

Signature of the Invigilator(s)

1. .....
2. .....

Time: 1 ½ Hours (90 Minutes) **Maximum Marks: 50**

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प्रश्न 1–25

1. पतंजलि योगसूत्र के अनुसार "योगश्चित्तवृत्तिनिरोधः" किस पाद का कौन-सा सूत्र है?

A. I.1 B. I.2 C. II.1 D. IV.2

2. "अभ्यासवैराग्याभ्यां तन्निरोधः" सूत्र संख्या है—

A. I.10 B. I.12 C. I.15 D. II.1

3. "मैत्री-करुणा-मुदितोपेक्षाणां..." सूत्र का उद्देश्य क्या है?

A. समाधि B. चित्तप्रसादन C. प्रत्याहार D. धारणा

4. निम्न में से कौन-सा क्लेश नहीं है?

A. अविद्या B. अस्मिता C. राग D. प्रमाद

5. पतंजलि के अनुसार "ईश्वर" है—

A. सर्वज्ञ पुरुषविशेष B. प्रकृति C. महत् D. जीव

6. हठयोग प्रदीपिका में सर्वश्रेष्ठ प्राणायाम किसे माना गया है?

A. उज्जायी B. सूर्यभेदन C. नाड़ीशोधन D. भस्त्रिका

7. घेरण्ड संहिता में कितने अंगों का वर्णन है?

A. 6 B. 7 C. 8 D. 15

8. शिवसंहिता मुख्यतः किस पर बल देती है?

A. राजयोग B. हठयोग एवं कुण्डलिनी C. कर्मयोग D. भक्तियोग

9. कौन-सी मांसपेशी श्वसन की मुख्य मांसपेशी है?

A. External Oblique B. Diaphragm C. Trapezius D. Deltoid

10. Functional Residual Capacity बराबर है।

A. TV+IRV B. ERV+RV C. IRV+TV+ERV D. TV+ERV

11. SA Node की सामान्य दर होती है।

A. 20–30/min B. 40–60/min C. 60–100/min D. 120–140/min

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12. इंसुलिन का स्राव किस कोशिका से होता है?

A. Alpha B. Beta C. Delta D. PP Cells

13. Cerebellum का मुख्य कार्य है?

A. Vision B. Coordination of movement C. Memory D. Speech

14. Cranial Nerve X है?

A. Trigeminal B. Vagus C. Facial D. Accessory

15. सबसे लंबी Cranial Nerve कौन-सी है?

A. VII B. X C. XII D. V

16. Vitamin B12 की कमी से कौन-सा एनीमिया होता है?

A. Microcytic B. Megaloblastic C. Hemolytic D. Aplastic

17. Type-I Muscle Fibres होते हैं?

A. Fast Glycolytic B. Slow Oxidative C. Intermediate D. White Fibres

18. Research में Null Hypothesis को दर्शाया जाता है?

A. H_1 B. H_0 C. P D. R

19. Random Sampling का मुख्य लाभ है?

A. Bias बढ़ता है B. Bias कम होता है C. Cost बढ़ती है D. Reliability घटती है

20. ANOVA का उपयोग किसलिए किया जाता है?

A. दो Mean की तुलना B. तीन या अधिक Mean की तुलना C. Correlation D. Regression

21. सांख्य दर्शन में कुल तत्त्वों की संख्या है?

A. 24 B. 25 C. 26 D. 27

22. भगवद्गीता के अनुसार योगः कर्मसु कौशलम् किस अध्याय में है?

A. अध्याय 2 B. अध्याय 3 C. अध्याय 6 D. अध्याय 18

23. पंचकोश सिद्धांत का वर्णन मुख्यतः किस उपनिषद् में है?

A. ईश B. तैत्तिरीय C. केन D. कठ

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24. Yoga Therapy में Hypertension के लिए कौन-सा प्राणायाम सामान्यतः सबसे सुरक्षित माना जाता है?

A. कपालभाति B. भस्त्रिका C. शीतली/नाड़ीशोधन D. सूर्यभेदन

25. WHO के अनुसार स्वास्थ्य है?

A. केवल रोग का अभाव B. शारीरिक स्वास्थ्य C. शारीरिक, मानसिक एवं सामाजिक कल्याण की पूर्ण अवस्था D. केवल मानसिक स्वास्थ्य

26. पतंजलि योगसूत्र में "ऋतम्भरा तत्र प्रज्ञा" किस सूत्र में वर्णित है?

A. I.47 B. I.48 C. I.49 D. I.50

27. "तज्जः संस्कारोऽन्यसंस्कारप्रतिबन्धी" सूत्र का तात्पर्य है?

A. क्लेशों का नाश B. समाधिज संस्कार अन्य संस्कारों को रोकता है C. चित्तवृत्ति का विस्तार D. प्रत्याहार की सिद्धि

28. योगसूत्र के अनुसार "निर्विचार वैशारद्येऽध्यात्मप्रसादः" किस अवस्था का वर्णन करता है?

A. सम्प्रज्ञात समाधि B. निर्विचार समाधि C. असम्प्रज्ञात समाधि D. धर्ममेघ समाधि

29. निम्न में से कौन-सा सूत्र क्रियायोग का प्रतिपादन करता है?

A. II.1 B. II.15 C. III.1 D. IV.1

30. Hypothalamus का कौन-सा भाग शरीर के तापमान को कम करने (Heat Loss Centre) से संबंधित है?

A. Posterior Hypothalamus B. Lateral Hypothalamus

C. Anterior Hypothalamus D. Mammillary Body

31. Cardiac Action Potential में Plateau Phase मुख्यतः किस आयन के कारण होती है?

A. Na^+ B. K^+ C. Ca^{2+} D. Cl^-

32. Juxtaglomerular Apparatus का मुख्य कार्य है?

A. Erythropoietin बनाना B. Renin का स्राव C. ADH का निर्माण D. Aldosterone का निर्माण

33. Oxygen-Hemoglobin Dissociation Curve दाईं ओर (Right Shift) कब होती है?

A. pH बढ़ने पर B. CO_2 कम होने पर C. तापमान बढ़ने पर D. 2,3-BPG कम होने पर

34. निम्न में से कौन-सा Cranial Nerve Parasympathetic Fibers नहीं ले जाता?

A. III B. VII C. IX D. XI

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35. Basal Ganglia का प्रमुख कार्य है?

A. Hearing B. Voluntary Movement Regulation C. Vision D. Respiration

36. Hatha Yoga Pradipika के अनुसार महामुद्रा का प्रमुख लाभ क्या बताया गया है?

A. केवल पाचन सुधारना B. नाड़ी शोधन एवं रोगक्षय C. केवल निद्रा बढ़ाना D. रक्तचाप बढ़ाना

37. घेरण्ड संहिता में षटकर्मों का मुख्य उद्देश्य है?

A. शरीर की शुद्धि B. मांसपेशी वृद्धि C. वजन बढ़ाना D. हृदयगति बढ़ाना

38. निम्न में से कौन-सा शोध डिज़ाइन कारण-परिणाम (Cause-Effect) संबंध स्थापित करने के लिए सर्वोत्तम माना जाता है?

A. Cross-sectional Study B. Case Report

C. Randomized Controlled Trial D. Ecological Study

39. यदि किसी शोध में p-value = 0.03 है, तो 5% Significance Level पर निष्कर्ष होगा?

A. Null Hypothesis स्वीकार होगी B. Null Hypothesis अस्वीकार होगी

C. अध्ययन अमान्य है D. कोई निष्कर्ष नहीं निकलेगा

40. सांख्य दर्शन के अनुसार प्रकृति के तीन गुण हैं?

A. सत्त्व, रजस्, तमस् B. धर्म, अर्थ, काम C. पृथ्वी, जल, अग्नि D. मन, बुद्धि, अहंकार

Assertion–Reason (41–45)

41. Assertion (A): कपालभाति को उच्च रक्तचाप वाले रोगियों में सावधानी से कराया जाता है।

Reason (R): इससे Intrathoracic Pressure एवं Sympathetic Activity बढ़ सकती है।

A. A और R दोनों सही हैं तथा R, A की सही व्याख्या है।

B. A और R दोनों सही हैं, पर R सही व्याख्या नहीं है।

C. A सही है, R गलत है।

D. A गलत है, R सही है।

42. Assertion: योगसूत्र में ईश्वर क्लेश, कर्म, विपाक और आशय से रहित है।

Reason: ईश्वर पुरुषविशेष है।

A. A B. B C. C D. D (उपरोक्त विकल्पों का वही अर्थ)

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43. Assertion: Parasympathetic System हृदयगति कम करता है।

Reason: Vagus Nerve SA Node पर प्रभाव डालती है।

A. दोनों सही, कारण सही व्याख्या B. दोनों सही, कारण व्याख्या नहीं

C. Assertion सही, Reason गलत D. दोनों गलत

44. Assertion: Type-I Muscle Fibers सहनशक्ति (Endurance) में अधिक उपयोगी हैं।

Reason: इनमें Mitochondria एवं Myoglobin अधिक होते हैं।

A. दोनों सही, कारण सही व्याख्या B. दोनों सही, कारण व्याख्या नहीं

C. Assertion सही, Reason गलत D. दोनों गलत

45. Assertion: योग निद्रा तनाव प्रबंधन में प्रभावी है।

Reason: इससे Parasympathetic Dominance बढ़ती है।

A. दोनों सही, कारण सही व्याख्या B. दोनों सही, कारण व्याख्या नहीं

C. Assertion सही, Reason गलत D. दोनों गलत

Case-Based Questions (46–50)

46. 58 वर्षीय रोगी का BP 170/100 mmHg है। वह योग प्रारंभ करना चाहता है। प्रारंभिक सत्र के लिए सबसे उपयुक्त संयोजन कौन-सा होगा?

A. सूर्यभेदन + भस्त्रिका + कपालभाति B. नाड़ीशोधन + शिथिलीकरण + शवासन

C. केवल सूर्य नमस्कार (20 चक्र) D. तीव्र अग्निसार

47. एक साधक को ध्यान के समय बार-बार पुरानी स्मृतियाँ विचलित कर रही हैं। योगसूत्र के अनुसार यह मुख्यतः किससे संबंधित है?

A. संस्कार B. यम C. नियम D. आसन

48. 24 वर्षीय खिलाड़ी में Achilles Tendon Reflex अनुपस्थित है। सबसे संभावित प्रभावित Spinal Root कौन-सा है?

A. L2–L3 B. L4 C. S1 D. C8

49. किसी शोध में योग-चिकित्सा समूह और नियंत्रण समूह की तुलना 12 सप्ताह बाद की गई। दोनों समूह स्वतंत्र (Independent) हैं और डेटा सामान्य वितरण (Normal Distribution) का है। सबसे उपयुक्त सांख्यिकीय परीक्षण कौन-सा होगा?

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A. Paired t-test B. Independent t-test C. Chi-square Test D. Wilcoxon Signed Rank Test

50. पतंजलि योगसूत्र के अनुसार कैवल्य का सर्वोत्तम दार्शनिक अर्थ क्या है?

A. शरीर का नाश B. मन का लोप

C. पुरुष का प्रकृति से पूर्ण स्वरूप-भेद एवं स्वतंत्र अवस्था D. केवल समाधि में बैठना

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Yoga

Ans key 1.B	21.B	41.A
2.B	22.A	42.A
3.B	23.B	43.A
4.D	24.C	44.A
5.A	25.C	45.A
6.D	26.B	46.B
7.B	27.B	47.A
8.B	28.B	48.C
9.B	29.A	49.B
10.B	30.C	50.C
11.C	31.C	
12.B	32.B	
13.B	33.C	
14.B	34.D	
15.B	35.B	
16.B	36.B	
17.B	37.A	
18.B	38.C	
19.B	39.B	
20.B	40.A	

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