## Computer Based Examination System

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Title *	Question Paper Answer Key
OES Exam *	GPSC01202313 / Lecturer in Periodontology / Completed / 2023-06-03

<b>Question Description</b>	The sequence of stages related to the pathogenesis of periodontal diseases are:
	1. Adhesion and colonization
	2. Host tissue invasion
	3. Bacterial evasion of host defense mechanisms
	4. Host tissue destruction
	5. Tissue healing
Α	1, 2, 3, 4, 5
В	1, 3, 2, 4, 5
С	1, 4, 3, 5, 2
D	3, 1, 2, 4, 5
E	None of the above
Correct Answer	A A
Marks	1

2	Question Description	Hetrogeneity of clinical studies using diode laser could be because of the following reason
	A	Wavelength of laser
	В	Spot size of irradiated area
	С	Mode of application
	D	All of above
	E	None of the above
	Correct Answer	D D
	Marks	1
3	Overtion Description	
3	Question Description	Porphyromonas gingivalis has the ability to inhibit the production of:
3	Question Description A	Porphyromonas gingivalis has the ability to inhibit the production of:  IL-1 by epithelial cells
3	·	
3	A	IL-1 by epithelial cells
3	В	IL-1 by epithelial cells IL-8 by epithelial cells
3	A B C	IL-1 by epithelial cells IL-8 by epithelial cells IL-6 by epithelial cells
3	A B C	IL-1 by epithelial cells IL-8 by epithelial cells IL-6 by epithelial cells all of the above
3	A B C D	IL-1 by epithelial cells IL-8 by epithelial cells IL-6 by epithelial cells all of the above None of the above

4	Question Description	Depressed neutrophil chaemotaxis is seen in:
	A	Localized. Aggressive periodontitis
		Localized. Aggressive periodolititis
	В	Generalized aggressive periodontitis
	С	Both of the above
	D	None of the above
	Е	None of the above
	Correct Answer	C
	Marks	1
5	Question Description	The earliest clinical sign of chronic gingival inflammation
	A	Erythema
	В	Oedema
	С	Loss of stippling
	D	Bleeding on probing
	E	None of the above
	Correct Answer	D
	Marks	1

6	Question Description	Microorganisms having the ability to directly invade host tissue cells:
	Α	Aggregatibacter actinomycetemcomitans
	В	Porphyromonas gingivalis
	С	Fusoacterium nucleatum
	D	All of the above
	Е	None of the above
	Correct Answer	D
	Marks	1
7	Question Description	The risk for severe chronic periodontitis is more in patients with genetic polymorphism of:
	Α	Interleukin-I gene
	В	Interleukin-2 gene

С

Е

Marks

**Correct Answer** 

Complement-1 gene

Complement-2 gene

None of the above

Α

8	Question Description	External bevel incision is beveled at approximately to the tooth surface.
	A	15°
	В	30°
	С	45°
	D	90°
	Е	None of the above
	Correct Answer	C
	Marks	1
9	Question Description	Mineralized plaque is:
	Α	Materia alba
	В	Calculus
	С	Food debris
	D	Dental stains
	Е	None of the above
	Correct Answer	В
	Marks	1

10	Question Description	Which of the following bacteria is associated with periodontal health?
	A	Streptococcus sanguis
	В	Streptococcus mitis
	С	Capnocytophaga species
	D	Veillonella species
	Е	None of the above
	Correct Answer	A
	Marks	1
11	Question Description	Titanium alloy used in dental implants is made up of Titanium, Vanadium and:
11	Question Description	Titanium alloy used in dental implants is made up of Titanium, Vanadium and:  Aluminium.
11		
11	Α	Aluminium.
11	В	Aluminium.  Nickle.
11	A B C	Aluminium.  Nickle.  Chromium
11	A B C	Aluminium.  Nickle.  Chromium  Gold
11	A B C D	Aluminium.  Nickle.  Chromium  Gold  None of the above

12	Question Description	Bruxism is associated with
	A	Advanced attrition
	В	Increased tooth mobility pattern
	С	Hypertonicity of the muscles of mastication
	D	All of the above
	Е	None of the above
	Correct Answer	D
	Marks	1

13	Question Description	Biological depth of a pocket is the distance between:
	Α	CEJ and base of the pocket
	В	Gingival margin and coronal end of JE
	С	Gingival margin and apical end of JE
	D	Gingival margin and CEJ
	E	None of the above
	Correct Answer	В
	Marks	1

14	Question Description	The implant should not be functionally loaded during the initial healing period of:
	A	1 to 2 months
	В	2 to 3 months
	С	3 to 6 months
	D	6 to 8 months
	E	None of the above
	Correct Answer	С
	Marks	1
15	Question Description	Which of the following is not included in the Green complex?
	A	Aggregatibacter actinomycetemcomitans serotype A
	В	Porphyromonas gingivalis
	С	Eikenella corrodens
	D	Capnocytophaga species
	E	None of the above
	Correct Answer	В
	Marks	1

16	Question Description	Bone morphogenic proteins are multifunctional growth factors belonging to
	Α	Transforming growth factor $\beta$
	В	Platelet derived growth factor
	С	Vascular endothelial growth factor
	D	Insulin like growth factor
	Е	None of the above
	Correct Answer	A
	Marks	1

17	Question Description	Leukotoxins are produced by which of the following perio-pathogens:
	Α	Porphyromonas gingivalis
	В	Prevotella intermedia
	С	Aggregatibacter actinomycetemcomitans
	D	Fusobacterium nucleatum
	E	None of the above
	Correct Answer	C
	Marks	1

18	Question Description	The lesions in herpetic gingival stomatitis have
	A	Marginal involvement
	В	Patch-like involvement
	С	Diffuse involvement
	D	Papillary involvement
	Е	None of the above
	Correct Answer	С
	Marks	1
19	Question Description	Fibronectin degrading enzyme is produced by
	A	Porphyromonas gingivalis
	В	Treponema denticola
	С	Aggregatibacter actinomycetemcomitans
	D	Capnocytophaga denticola
	Е	None of the above
	Correct Answer	A
	Marks	1

Question Description	Scurvy is due to the deficiency of:
Α	Vitamin A
В	Vitamin B
С	Vitamin C
D	Vitamin D
Е	None of the above
Correct Answer	С
Marks	1
Question Description	Leathery consistency of gingiva is caused by:
Α	Fibrosis of connective tissue
В	Epithelial proliferation
С	Both of the above
D	None of the above
Е	None of the above
Correct Answer	С
Marks	1
	A B C D E Correct Answer Marks  Question Description A B C D E C Correct Answer

22	Question Description	Which of the following technique is used to increase implant surface area?
	Α	Acid etching
	В	Grit blasting
	С	Both of the above
	D	None of the above
	Е	None of the above
	Correct Answer	C
	Marks	1

23	Question Description	Trauma from occlusion does not produce:
	Α	Tooth mobility
	В	Widening of periodontal spaces
	С	Angular bone loss
	D	Periodontal pockets
	E	None of the above
	Correct Answer	D
	Marks	1

24	Question Description	The most common crystalline forms present in supragingival calculus are:
	Α	Hydroxyapatite and magnesium whitlockite
	В	Hydroxyapatite and octacalcium phosphate
	С	Hydroxyapatite and brushite
	D	Magnesium whitlockite and octacalcium phosphate
	Е	None of the above
	Correct Answer	В
	Marks	1

Question Description	Radiographic features of trauma from occlusion include all of the following expect
Α	Thickening of lamina dura
В	Angular bone loss
С	Increase in the width of periodontal ligament space
D	Hyalinization of periodontal ligament space
E	None of the above
Correct Answer	D
Marks	1

26	Question Description	Which of the following crystal is more commonly found in the calculus of mandibular anterior areas?
	A	Hydroxyapatite
	В	Magnesium whitlockite
	С	Octacalcium phosphate
	D	Brushite
	E	None of the above
	Correct Answer	D
	Marks	1
27	Question Description	The smallest matrix metalloproteinases (MMPs) is:
	A	Matrilysin (MMP – 7)
	В	Gelatinase – B (MMP – 9)
	С	Enamelysin (MMP – 20)
	D	Stromeolysin – 1 (MMP – 3)
	Е	None of the above
	Correct Answer	A
	Marks	1

28	Question Description	Periodontal findings that may be seen in diabetics with poor oral hygiene:
	A	Periodontal abscess
	В	Gingival enlargement
	С	Polypoid growths
	D	All of the above
	Е	None of the above
	Correct Answer	D
	Marks	1
29	Question Description	Advanced glycation end products (AGEs) are formed in:
	Α	Protein deficiency
	В	Diabetes mellitus
	С	Leukemia
	D	All of the above
	Е	None of the above
	Correct Answer	В
	Marks	1

30	Question Description	Drug induced gingival enlargement can be due to:
	A	Nifedipine
	В	Cyclosporine
	С	Phenytoin
	D	All of the above
	Е	None of the above
	Correct Answer	D
	Marks	1
31	Question Description	Which microorganism is increased in pregnancy?
	Α	Prevotella intermedia
	В	Porphyromonas gingivalis
	С	Porphyromonas melaninogenicus
	D	Eikenella corrodens
	E	None of the above
	Correct Answer	A
	Marks	1

32	Question Description	Tooth mobility caused by which of the following is not likely to be corrected:
	A	Trauma from occlusion
	В	Inflammation in periodontal ligament
	С	Loss of alveolar bone
	D	All of the above
	Е	None of the above
	Correct Answer	С
	Marks	1
33	Question Description	Following are the findings seen in leukemia:
	Α	Gingival enlargement
	В	Gingival bleeding
	С	Oral ulceration and infection
	D	All of the above
	Е	None of the above
	Correct Answer	D
	Marks	1

34	Question Description	Which of the following drugs has been shown to slow down the alveolar bone loss in periodontitis?
	A	Nimesulide
	В	Rofecoxib
	С	Ibuprofen
	D	Valecoxib
	Е	None of the above
	Correct Answer	C
	Marks	1
35	Question Description	Following are the chemotaxins for neutrophil except:
	Α	Platelet activating factor
	В	IL-1
	С	IL-6
	D	IL-8
	Е	None of the above
	Correct Answer	С
	Marks	1

36	Question Description	Coating of microbes with host proteins facilitating phagocytosis:
	A	Chemotaxis
	В	Opsonization
	С	Neutralization
	D	All of the above
	E	None of the above
	Correct Answer	В
	Marks	1
37	Question Description	Macrophages are:
	Α	Modified monocytes
	В	Modified neutrophils
	С	Modified lysosomes
	D	All of the above
	E	None of the above
	Correct Answer	A
	Marks	1

38	Question Description	Which of the following complex is most closely attached to destructive periodontal diseases?
	Α	Red complex
	В	Green complex
	С	Orange complex
	D	Purple complex
	Е	None of the above
	Correct Answer	A
	Marks	1
39	Question Description	Calculus
	Α	Per se is the irritating cause to gingiva
	В	It is always covered with a non-mineralized layer of plaque
	С	It is formed as all plaque undergoes mineralization
	D	Formation cannot be maintained in germ-free animals
	E	None of the above
	Correct Answer	В

Marks

40	Question Description	Which of the following drugs is not used locally in treating periodontal disease:
	Α	Tetracycline
	В	Doxycycline
	С	Chlorhexidine
	D	Amoxycillin
	E	None of the above
	Correct Answer	D
	Marks	1
41	Question Description	Physiological tooth mobility is greatest in:
	Α	Mornings
	В	Afternoons
	С	Evenings
	D	Nights
	E	None of the above
	Correct Answer	A
	Marks	1

42	Question Description	Moderate furcation involvement with bone destruction to the extent that a probe can enter the furcation area but not pass through and through the furcation is classified as
	Α	Class I
	В	Class II
	С	Class III
	D	Class IV
	E	None of the above
	Correct Answer	В
	Marks	1
43	Question Description	The structural and functional relation between bone and implant is called:
	Α	Ankylosis
	В	Osseointegration
	С	Gumphosis
	D	Periodontal ligament
	E	None of the above
	Correct Answer	В
	Marks	1

44	Question Description	The most efficient means of identifying supragingival calculus is by:
	A	Visual observation and compressed air
	В	Tactile detection and periodontal probe
	С	Use of disclosing solution
	D	Transillumination
	Е	None of the above
	Correct Answer	A
	Marks	1
45	Question Description	Microphages are:
	Α	Neutrophils
	В	Basophils
	С	Eosinophils
	D	Monocytes
	Е	None of the above
	Correct Answer	A
	Marks	1

46	Question Description	has a key role on the nutrition of newly engineered periodontal tissues.
	A	Lymphatic supply
	В	Nerve supply
	С	Blood supply
	D	Venous supply
	Е	None of the above
	Correct Answer	C
	Marks	1
47	Question Description	Lobulated mulberry shaped gingival enlargement is characteristic of
	A	Inflammatory gingival enlargement
	В	Drug-induced gingival enlargement
	С	Combined gingival enlargement
	D	All of the above
	Е	None of the above
	Correct Answer	В
	Marks	1

48	Question Description	"Subclinical gingivitis" occurs in:
	A	Initial lesion
	В	Early lesion
	С	Established lesion
	D	Advanced lesion
	Е	None of the above
	Correct Answer	A
	Marks	1
49	Question Description	The minimum width of jaw "bone for implant placement needs to be:
	Α	2 mm
	В	2 mm 3 mm
	В	3 mm
	В	3 mm 8 mm
	B C D	3 mm 8 mm 6 mm
	B C D	3 mm 8 mm 6 mm None of the above

50	Question Description	Which of these immune cells form antibodies:
	Α	Macrophages
	В	PMNs
	С	B lymphocytes
	D	T lymphocytes
	Е	None of the above
	Correct Answer	C
	Marks	1

51 <b>Com</b>	prehension	Read the passage below and answer the questions:  In the time of Charles the Fifth, Emperor of Germany, Stoeffler, a noted mathematician, and astronomer, a man of great learning, made an astronomical calculation according to the great science of Astrology, and ascertained that the world was to be visited by another deluge. This prediction was absolutely believed by the leading men of the Empire not only, but all of EuropeThousands of people left their homes in low lands, by the rivers, and near the sea, and sought the more elevated ground. People in some instances abandoned the aged, the sick, and the infirm to the tender mercies of the expected flood, so anxious were they to reach some place of security.
Ques	stion Description	In the above passage, the phrase "another deluge" indicates that there had been one more in the past
Α		calculation
В		prediction
С		flood
D		astronomer
E		None of the above
Corre	ect Answer	С
Mark	<b>S</b>	1
Mark		

52	Comprehension	Read the passage below and answer the questions: In the time of Charles the Fifth, Emperor of Germany, Stoeffler, a noted mathematician, and astronomer, a man of great learning, made an astronomical calculation according to the great science of Astrology, and ascertained that the world was to be visited by another deluge. This prediction was absolutely believed by the leading men of the Empire not only, but all of EuropeThousands of people left their homes in low lands, by the rivers, and near the sea, and sought the more elevated ground. People in some instances abandoned the aged, the sick, and the infirm to the tender mercies of the expected flood, so anxious were they to reach some place of security.
	Question Description	As per the implicit sense of the passage, the drawback of the prediction was that
	Α	it made people abandon the aged, the sick and the infirm to the expected flood
	В	its astronomical calculation was based on the great science of Astrology
	С	it was absolutely believed by not just leading personages but all of Europe
	D	the people were anxious to reach some place of security
	Е	None of the above
	Correct Answer	В
	Marks	1

53	Comprehension	Read the passage below and answer the questions:  In the time of Charles the Fifth, Emperor of Germany, Stoeffler, a noted mathematician, and astronomer, a man of great learning, made an astronomical calculation according to the great science of Astrology, and ascertained that the world was to be visited by another deluge. This prediction was absolutely believed by the leading men of the Empire not only, but all of EuropeThousands of people left their homes in low lands, by the rivers, and near the sea, and sought the more elevated ground. People in some instances abandoned the aged, the sick, and the infirm to the tender mercies of the expected flood, so anxious were they to reach some place of security.
	Question Description	The "Emperor of Germany " mentioned in the passage was
	A	Stoeffler
	В	a noted mathematician
	С	astronomer
	D	Charles the Fifth
	E	None of the above
	Correct Answer	D
	Marks	1

	In the time of Charles the Fifth, Emperor of Germany, Stoeffler, a noted mathematician, and astronomer, a man of great learning, made an astronomical calculation according to the great science of Astrology, and ascertained that the world was to be visited by another deluge. This prediction was absolutely believed by the leading men of the Empire not only, but all of EuropeThousands of people left their homes in low lands, by the rivers, and near the sea, and sought the more elevated ground. People in some instances abandoned the aged, the sick, and the infirm to the tender mercies of the expected flood, so anxious were they to reach some place of security.
Question Description	The antonym of "elevated" as used in the passage is
Α	raised
В	undignified
С	demoted
D	low
Е	None of the above
Correct Answer	D
Marks	1

55	Comprehension	Read the passage below and answer the questions: In the time of Charles the Fifth, Emperor of Germany, Stoeffler, a noted mathematician, and astronomer, a man of great learning, made an astronomical calculation according to the great science of Astrology, and ascertained that the world was to be visited by another deluge. This prediction was absolutely believed by the leading men of the Empire not only, but all of EuropeThousands of people left their homes in low lands, by the rivers, and near the sea, and sought the more elevated ground. People in some instances abandoned the aged, the sick, and the infirm to the tender mercies of the expected flood, so anxious were they to reach some place of security.
	Question Description	As per the passage, the reaction of the people to the prediction shows that they were scientifically
	Α	ill-informed but concerned for their own survival
	В	well-informed and so anxious for their own survival
	С	uninformed to forsake those who were aged, ill or weak
	D	ill-informed and unaware of the impending peril
	E	None of the above
	Correct Answer	A
	Marks	1

58	Question Description	When is International Nurses Day 2023 being observed?
	A	May 11
	В	May 12
	С	May 13
	D	May 15
	Е	None of the above
	Correct Answer	В
	Marks	1

59	Question Description	At which IIT did Israel and India partner to establish a centre of water technology?
	Α	IIT Madras
	В	IIT Kanpur
	С	IIT Mumbai
	D	IIT Delhi
	E	None of the above
	Correct Answer	A
	Marks	1

60	Question Description	The Reserve Bank of India has recently approved the merger of which two banks?
	Α	Maratha Sahakari Bank & The Cosmos Co-operative Bank
	В	Maratha Sahakari Bank & The Bandhan Bank
	С	Maratha Sahakari Bank & The Saraswat Co-operative Bank
	D	Maratha Sahakari Bank & The Bharat Co-operative Bank
	Е	None of the above
	Correct Answer	A
	Marks	1
61		
	Question Description	Which airport has been recognized as the most punctual airport in the world by aviation analytics firm Cirium?
	Question Description  A	Which airport has been recognized as the most punctual airport in the world by aviation analytics firm Cirium?  Delhi Airport
	·	
	A	Delhi Airport
	В	Delhi Airport  Kochi Airport
	A B C	Delhi Airport  Kochi Airport  Guwahati Airport
	A B C D	Delhi Airport  Kochi Airport  Guwahati Airport  Hyderabad Airport
	A B C D	Delhi Airport  Kochi Airport  Guwahati Airport  Hyderabad Airport  None of the above

Question Description	When is World Telecommunication and Information Society Day celebrated?
Α	May 17
В	May 16
С	May 15
D	May 12
Е	None of the above
Correct Answer	A
Marks	1
Question Description	In which state is Burachapori wildlife sanctuary situated?
Α	Assam
В	Sikkim
С	Odisha
D	Jharkhand

Α

None of the above

Ε

Marks

**Correct Answer** 

64	Question Description	Which state has become the first in India to enforce the 'right to walk'?
	A	Sikkim
	В	Mizoram
	С	Kerala
	D	Punjab
	E	None of the above
	Correct Answer	D
	Marks	1
65	Question Description	Between which two countries is the bilateral exercise 'Samudra Shakti-23' conducted?
65	Question Description A	Between which two countries is the bilateral exercise 'Samudra Shakti-23' conducted?  India and Indonesia
65		
65	Α	India and Indonesia
65	В	India and Indonesia India and Singapore
65	A B C	India and Indonesia India and Singapore India and France
65	A B C	India and Indonesia India and Singapore India and France India and USA
65	A B C D	India and Indonesia India and Singapore India and France India and USA None of the above

Question Description	A 270 metres long train running at the speed of 120 kmph crosses another train running in opposite direction at the speed of 80 kmph in 9 seconds. What is the length of the other train?
Α	230 m
В	240 m
С	260 m
D	320 m
Е	None of the above
Correct Answer	A
Marks	1

67	Question Description	The largest 4 digit number exactly divisible by 88 is:
	Α	9944
	В	9768
	С	9988
	D	8888
	Е	None of the above
	Correct Answer	A
	Marks	1

Question Description	A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?
Α	Rs. 375
В	Rs. 400
С	Rs. 600
D	Rs. 800
Е	None of the above
Correct Answer	В
Marks	1
Question Description	January 1, 2007 was Monday. What day of the week lies on Jan. 1, 2008?
Α	Monday
В	Tuesday
С	Wednesday
D	Sunday
E	None of the above
Correct Answer	B

Question Description	The difference between a two-digit number and the number obtained by interchanging the positions of its digits is 36. What is the
	difference between the two digits of that number?
A	3
В	4
С	9
D	Cannot be determined
E	None of the above
Correct Answer	В
Marks	1
Question Description	How much does a watch lose per day, if its hands coincide every 64 minutes?
Α	$32\frac{8}{11}$ min.
В	$36\frac{5}{11}$ min.
С	90 min
D	96 min
Е	None of the above
Correct Answer	A
Marks	1

72	Question Description	
		Find out the alternative figure which contains figure (X) as its part.
		(X) (1) (2) (3) (4)
	Α	1
	В	2
	С	3
	D	4
	E	None of the above
	Correct Answer	В
	Marks	1

Question Description	
	The question given below consists of a question followed by three statements. You have to study the question and the statements and decide which of the statement(s) is/are necessary to answer the question.
	By selling an article what is the profit percent gained?
	I. 5% discount is given on list price.
	II. If discount is not given, 20% profit is gained.
	III. The cost price of the articles is Rs. 5000.
Α	Only I and II
В	Only II and III
С	Only I and III
D	All I, II and III
E	None of the above
Correct Answer	A
Marks	1

74	Question Description	Present ages of Sameer and Anand are in the ratio of 5: 4 respectively. Three years hence, the ratio of their ages will become 11:9 respectively. What is Anand's present age in years?
	Α	24
	В	27
	С	40
	D	Cannot be determined
	Е	None of the above
	Correct Answer	A
	Marks	1

75 Question Descripti	Odd man out 41, 43, 47, 53, 61, 71, 73, 81
Α	61
В	71
С	73
D	81
E	None of the above
<b>Correct Answer</b>	D D
Marks	1