

KMCT
DENTAL COLLEGE

Recognised Research Centre of Kerala University of Health Sciences

Recognised by Dental Council of India and Govt. of India

KMCT Medical College Campus, Mukkam, Kozhikode-673602

Phone: (0495)2292002, 2292004

E-mail: dental@kmct.edu.in, website: www.kmctdentalcollege.org

2.5 EVALUATION PROCESS AND REFORMS



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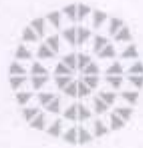
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**2.5.3 REFORMS IN THE PROCESS AND PROCEDURE IN THE CONDUCT OF
EVALUATION/EXAMINATION: INCLUDING CONTINUOUS INTERNAL
ASSESSMENT TO IMPROVE THE EXAMINATION SYSTEM**



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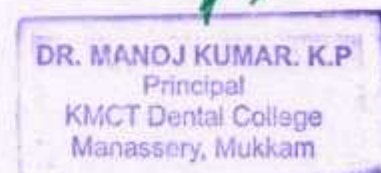
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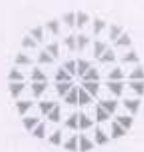
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TO WHOMSOEVER IT MAY CONCERN

This to certify that reforms in the process and procedure in the conduct of evaluation/examination: including continuous internal assessment to improve the examination system



PRINCIPAL



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OSPE AND OSCE



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OBJECTIVE STRUCTURED PRACTICAL EXAMINATION

Objective structured practical examination was conducted for both BDS and MDS students. The student's practical skill was assessed by keeping practical stations.

ACADEMIC IN CHARGE



 **PRINCIPAL**

DR. MANOJ KUMAR. K.P
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OBJECTIVE STRUCTURED PRACTICAL EXAMINATION

In every practical examination our institution follows OSPE

SAMPLE ON PERIODONTICS OSPE

The student's practical skill was assessed by keeping 3 practical stations. The stations are as follows

STATION 1 CASE SCENARIO,

STATION 2 SPOTTERS

STATION 3 VIVA

This evaluation technique has helped the teachers to know the abilities of Fourth students in PERIODONTICS practical's.


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Station 1



station 3



Station 2



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SAMPLE ON PROSTHODONTICS OSPE

The student's practical skill was assessed by keeping 5 practical stations. The stations are as follows

STATION 1 ON IDENTIFICATION OF MATERIALS

STATION 2 ON IMPRESSION TAKING

STATION 3 FABRICATION OF OCCLUSAL RIM

STATION 4 TYPHODONT EXERCISES

STATION 5 ON INSTUMENTS.

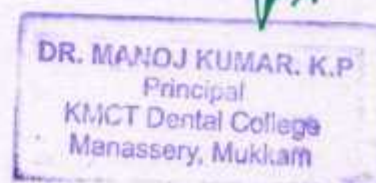
This evaluation technique has helped the teachers to know the abilities of first year students in PROSTHODONTICS practical's.



STATION 1



STATION 2





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STATION 3



STATION 4



STATION 5



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FINAL YEAR PART 1 (OSPE)

ORAL MEDICINE & RADIOLOGY

Component 1*: Spotters – 10 Time : 10 minutes

Ten (10) power point (ppt) slides – 1 mark each

Component 2*: Long case- 40 marks Time : 45 minutes

Case scenario will be displayed as PPT slides.

Option 1: Demographic details and relevant positive history will be provided along with extra oral and intra oral photos. Photos of radiographs can also be displayed if required for diagnosis.

Students have to present it in long case format.

Option 2: Display a photo of a White/Red lesion/ Ulcer/Swelling as a PPT slide. Students have to write down the important questions to be asked during history taking and important findings to be noted during clinical examination along with relevant investigations needed to arrive at a diagnosis.

Component 3*:

Interpretation of IOPA radiographs: 20 marks. Time: 20 minutes

Radiographs will either be provided to each candidate or will be displayed as a PPT slide.

(While interpreting the radiograph, the candidate should also mention about the technical aspects of film placement, patient & tube positioning, exposure parameters and film processing technique for the IOPA radiograph given to them)



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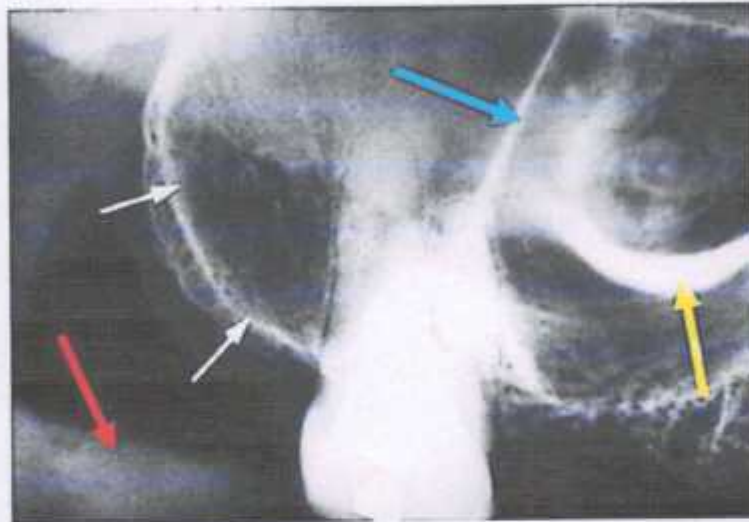
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Component 1: Spotter- Sample 2



2). Identify the normal anatomical landmarks as indicated by

- a) Blue arrow
- b) Red arrow
- c) White arrow
- d) Yellow arrow

(0.25 x 4 = 1 Mark)

Component 2 : Long Case Scenario – Sample 1

A. Demographic Details

- Name: XXXXXX
- Age: XX yrs
- Gender: XX

• Address: XXXX



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- Occupation: XX

B. Presenting Complaint & H/O Presenting Complaint

- Painful swelling in relation to _____ for the past one and half months
- Pain- Chronic dull aching, _____
aggravates on taking hot food, relieved by analgesics, _____
- Any other relevant history related to presenting complaint

C. Past Dental History

D. Medical History

- Significant Findings: ----.
- Medication: ----.
- Allergies: ----

E. Personal History

History of deleterious/ Parafunctional habits





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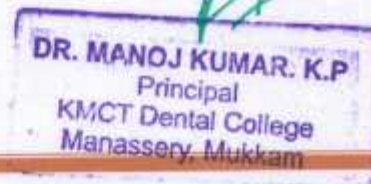
F. General Examination & System Review

G. Extra oral Examination

Relevant Palpation findings -----

Examination of TMJ, Salivary Glands & Lymph node

H. Intraoral Examination





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Relevant Palpation findings -----

I. Investigations

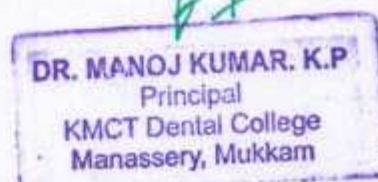


J. Provisional Diagnosis

K. Differential Diagnosis

L. Any other investigations required?

M. Management





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Component 4: Case record and seminar - 10 marks

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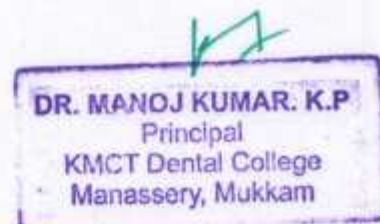
▪ Spotters	10 Marks
▪ Long Case	40 Marks
▪ Interpretation of IOPA Radiograph	20 Marks
▪ Clinical work record & Seminar	10 Marks
TOTAL	80 Marks
▪ Viva Voce (2016 scheme)	20 Marks
▪ Viva Voce (2010 scheme)	25 Marks

Sample PPT slides for Component 1 & 2 are given below:

Component 1: Spotter- Sample 1



1).Write the most likely diagnosis and the differentialdiagnosis of lesion shown in the picture - **1 Mark**





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Final BDS Part II (OSPE)

PROSTHODONTICS AND CROWN & BRIDGE

EXERCISE 1 : Spotters* - 2x5=10 marks

(Dental materials/ instruments)

Images of spotters to be projected using ppt

(*External examiner shall select the spotters in consultation with the Internal examiner)

EXERCISE 2 : Case Scenario* : 5x2= 10 marks

2 Clinical cases ; Time :10 x 2= 20 minutes

2(a)Case 1: Removable Prosthodontics (Complete Denture / RPD cases, designing, relevant findings to be explained based on the images)

2(b)Case 2: Fixed Prosthodontics: (FPD / Implant cases, relevant findings to be explained based on the images)

Students must write the differential diagnosis if relevant, provisional diagnosis and treatment plan.

(*The external examiner in consultation with the internal examiner should prepare the ppt. for case scenarios with brief case history, clinical examination findings with photos and radiographs if relevant).

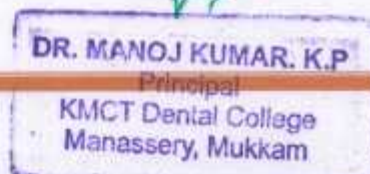
EXERCISE 3 :

•3(a) Irreversible hydrocolloid Maxillary & Mandibular Impressions of a dentulous subject (students can make maxillary and mandibular impression of their peers).

30 Marks

•3(b) Tooth Preparation on Phantom jaw mounted Typhodont.

20 Marks





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Clinical work record and Seminar

10 Marks

GRAND TOTAL FOR UNIVERSITY PRACTICAL EXAMINATION

▪ Spotters	10 Marks
▪ Case Scenario	10 Marks
▪ Impression	30 Marks
▪ Tooth Preparation	20 Marks
▪ Clinical work record & Seminar	10 Marks

TOTAL 80 Marks

▪ Viva Voce (2016 scheme)	20 Marks
▪ Viva Voce (2010 scheme)	25 Marks



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Final BDS Part I (OSPE)

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

Spotters: 10 x 2 =20 Marks Time : 20 minutes

Ten spotters to be projected digitally with at least two questions for each spotter. Two marks to be allotted for each spotter.

(Selection of digitally projected spotters to be agreed upon by external and internal examiner)

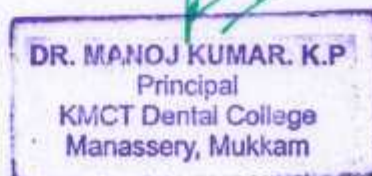
Case Presentation: 50 Marks. Time- 90 minutes

Patient demographic details together with extra oral, intra oral and study model photographs with all the relevant raw data usually collected chair side by the student is to be projected digitally.

The students are supposed to make the required analysis with the given values and arrive at a problem list, diagnosis and treatment plan; followed by case presentation viva.

Clinical work record & Seminar : 10 Marks

Viva Voce : 20 Marks





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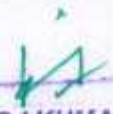
GRAND TOTAL FOR UNIVERSITY PRACTICAL EXAMINATION

▪ Spotters	20 Marks
▪ Case Presentations	50 Marks
▪ Clinical work record & Seminar	10 Marks

TOTAL **80 Marks**

▪ Viva Voce (2016 scheme)	20 Marks
▪ Viva Voce (2010 scheme)	25 Marks




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Final BDS Part II (OSPE)

CONSERVATIVE DENTISTRY AND ENDODONTICS

EXERCISE 1

5 Spotters* (Dental Materials / Instruments)

Marks: 2x 5 =10

Images of spotters to be projected through PPT

Time: 2x5 =10 Minutes

(*External Examiner should select the spotters in consultation with the Internal Examiner)

EXERCISE 2

(a) Case Scenario

Marks: 5x2=10

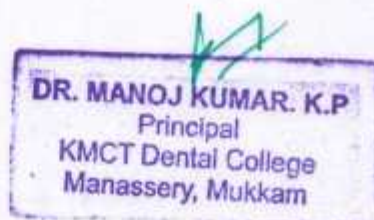
(b) 2 Clinical cases

Time :10x2 =20 Minutes

Case2(a): Restorative dentistry* (eg; Class III or Class IV Caries / Deep caries management /Extensive caries that needs Inlay/Onlay etc)

Case 2(b): Endodontics* (eg. Endo diagnosis/Open apex management/Traumatized teeth management etc)

Students must write the Differential Diagnosis if relevant, Provisional diagnosis, and Treatment plan





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EXERCISE 3

Class II Conservative Mesio-Occlusal tooth preparation* for Amalgam restoration on Maxillary First Molar Typhodont tooth** using micromotor : **50 Marks**

- (i)* Box only and slot preparation to be avoided
- (ii)** Teeth to be mounted on phantom head fitted with proper rubber masks
- (iii)** Adjacent teeth mandatory
- (iv)** Opposing arch or tooth not mandatory
- a) Tooth preparation (25 Min) : 20 marks
- b) Base and matrix (15 Min) : 15 marks
- c) Restoration and carving (20 Min) : 15 marks

TOTAL : 50 marks

Clinical work record & Seminar : 10 Marks

GRAND TOTAL FOR UNIVERSITY PRACTICAL EXAMINATION

■ Spotters	10 Marks
■ Case Scenario	10 Marks
■ Tooth Preparation	50 Marks
■ Clinical work record & Seminar	10 Marks

TOTAL 80 Marks

■ Viva Voce (2016 scheme)	20 Marks
■ Viva Voce (2010 scheme)	25 Marks





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Final BDS Part I (OSPE)

PUBLIC HEALTH DENTISTRY

EXERCISE 1 : 10 Marks

Writing of case history based on a given common case scenario (5 marks)

Viva based on a case history from the students record book (5 Marks)

EXERCISE 2 : 30 Marks

Selecting 2 relevant indices based on the taken case history (5 Marks)

Writing in detail about those 2 indices (2x10=20 Marks)

Viva on indices (5 Marks)

EXERCISE 3 : 20 Marks

Statistical Spotters 10 numbers (10x2=20 marks)

EXERCISE 4 : 5 Marks

Oral health education talk on a given topic for 5 minutes (5 Marks)

EXERCISE 5 : 5 Marks

Health Education Project done by student (5 Marks)

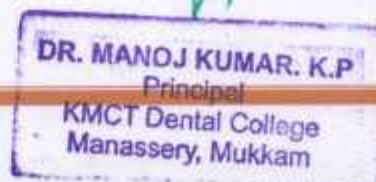
(If not done replace with third year seminar)

EXERCISE 6 : 5 Marks

Short term research project (5 marks)

(If not done replace with final year seminar)

Clinical Records and assignments: 5 marks





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GRAND TOTAL FOR UNIVERSITY PRACTICAL EXAMINATION

• Case History Taking based on Scenario and Viva	10 Marks
• Identification, Writing and viva on 2 indices	30 Marks
• Spotters	20 Marks
• Oral Health Education Talk	5 Marks
• Short term Research Project/Seminar	5 Marks
• Health Education Project/Seminar	5 Marks
• Records and Documents	5 Marks
TOTAL	80 Marks
• VIVA VOCE (2016 scheme)	20 Marks
• VIVA VOCE (2010 scheme)	25 Marks



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Final BDS Part I (OSPE)
Periodontology

1) Case history and diagnosis of long case (30 marks)

- a) Print out of a brief case history with the relevant clinical findings including the full mouth periodontal charting to be given to the candidate.
- b) Candidate shall write in detail the investigations, differential diagnosis, prognosis and treatment plan
- c) Time allotted - 30 minutes

2) Spotters: Instruments and instrumentation -10 slides (using PPT. projection)

- a) Each slide carries three marks
 - b) Total 10x3= 30 marks
 - c) Time allotted per slide is 2 minutes
- (*External examiner shall prepare the ppt in consultation with the Internal examiner.)
*The slides may contain photographs and images

3) Clinical record -10 marks

4) Seminar -10 Marks

Viva Voce - 20 marks

GRAND TOTAL FOR UNIVERSITY PRACTICAL EXAMINATION

☐	Case Presentations	30 Marks
☐	Spotters	30 Marks
☐	Clinical work record	10 Marks
☐	Seminar	10 Marks
TOTAL		80 Marks
☐	Viva Voce (2016 scheme)	20 Marks
☐	Viva Voce (2010 scheme)	25 Marks



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Final BDS Part II (OSPE)

PEDIATRIC AND PREVENTIVE DENTISTRY

1) **Case History:** One previous completed case record: **10 marks**

2) **Clinical scenario*:** **10 marks** (2 cases x 5 marks each=10 marks)

(*External Examiner in consultation with Internal Examiner may bring photographs or case records)

3) **Natural tooth / Typhodont exercise*:** **20 marks**

*Class 2 on primary second molar teeth

4) **Spotters*:** **30 marks** (10x 3 =30 marks)

(*3 questions will be there in each spotter, one mark for identification and 2 marks for related questions)

5) **Work record + seminar = 10marks**

GRAND TOTAL FOR UNIVERSITY PRACTICAL EXAMINATION

■ Case history	10 Marks
■ Case Scenario	10 Marks
■ Tooth Preparation	20 Marks
■ Spotters	30 Marks
■ Clinical work record & Seminar	10 Marks

TOTAL **80 Marks**

■ Viva Voce (2016 scheme)	20 Marks
■ Viva Voce (2010 scheme)	25 Marks

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REPORT ON OSCE AND OSPE

As a part of clinical practice and to evaluate the student's skill in performing the procedures before posting students in the clinical OSCE was organized by every department during their clinical posting.

Sample OSCE in Department of Pedodontics

It was planned to conduct the session in 4 stations namely patient approach, intra oral examination, radiographic mounting exercises and viva voce. All part 2 BDS students participated. Students were divided to 4 groups and was evaluated by staff. It was very good method to evaluate the practical skills and knowledge of each student. The OSCE sessions went on well. Over all the students' performance was good.

OSCE

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MEET THE EDUCATORS



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DEPARTMENT OF PEDIATRIC DENTISTRY



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OVERVIEW OF CONTENT



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- CASE HISTORY
- CLINICAL EXAMINATION
- RADIOGRAPHIC
INTERPRETATION
- VIVA VOCE



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TARGET POPULATION



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Target Population



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Final year part 2 BDS dental students
with preclinical and clinical experience.



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OSCE Blueprint



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Principal

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Station Blueprint

Station Time:
10 Minutes

Station One: Case history(10 points) ✓ Examiner observed ✓ Kidney trays ✓ Mouth mirror ✓ Probe ✓ Explorer ✓ Tweezer ✓ Hand sanitizer ✓ Gloves ✓ Faculty directions ✓ Faculty checklist ✓ Student directions – written OSCE Objective & Performance Criteria: ✓ Long Case history and clinical examination Clinical Skill Learning Domain: Psychomotor / Cognitive	Station Two: Clinical procedure(10 points) ✓ Examiner observed ✓ Kidney trays ✓ Mouth mirror ✓ Probe ✓ Explorer ✓ Tweezer ✓ Specific instruments for procedure ✓ Hand sanitizer ✓ Gloves ✓ Student directions ✓ Student form ✓ Writing utensil ✓ Faculty directions ✓ Answer key OSCE Objective & Performance Criteria: ✓ Recognize normal anatomy of the oral cavity ✓ Demonstrate knowledge of soft tissue and hard tissue findings and achieve a score of 80% or above Clinical Skill Learning Domain: Psychomotor / Cognitive
Station Three: Radiograph Interpretation (10 points) ✓ Student directions ✓ IOPA films ✓ Student form ✓ Writing utensil ✓ Faculty directions ✓ Faculty checklist OSCE Objective & Performance Criteria: ✓ Radiographic interpretation and diagnosis Procedural Skill Learning Domain: Psychomotor / Cognitive	Station Four: Viva Voce(10 points) ✓ Examiner observed ✓ Hand sanitizer ✓ Faculty directions ✓ Faculty checklist & answer key ✓ Student directions & student form OSCE Objective & Performance Criteria: ✓ Express importance of clinical knowledge and assessment ✓ Demonstrate knowledge of subject and clinical skills assessment and achieve a score of 80% or above Clinical Skill Learning Domain: Psychomotor / Cognitive Affective



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OSCE Map



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OSCE Map

STATION 1

Case History
(examiner
observed)

STATION 2

Clinical
procedure
(Examiner
observed)

STATION 3

Radiograph
interpretation
(Examiner
observed)

STATION 4

Viva voce
(examiner
observed)



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OSCE Stations – Instructions to students

- Reporting time: 8.30 am
- Records should be covered and register number stuck.
- Neat apron with register number pinned on Apron.
- College dress code to be strictly followed.
- 2 masks , gloves and extra set of instruments for examiner.
- Appliances, seminars and log note to be submitted on the day of exam.
- Examination and procedural instruments to brought for clinical procedure.
- The patient and bystander should be asked to report by 9.00 am at college.



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Faculty OSCE Evaluation:

- Student Performance
- Class Performance
- Curriculum



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OSCE Stations



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STATION 1



STATION 2



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STATION 3



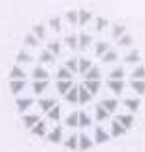
STATION 4



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3. EXAMINATIONS

3.1 Eligibility to appear for University examinations

a) Preface:

- i. Evaluation is a continuous process, which is based upon criteria developed by with certain objectives to assess the performance of the learner. This also indirectly helps in the measurement of effectiveness and quality of the concerned B.D.S. programme.
- ii. Evaluation is achieved by two processes
 - 1) Formative or internal assessment
 - 2) Summative or university examinations.

Formative evaluation is done through a series of tests and examinations conducted periodically by the institution.

Summative evaluation is done by the university through examination conducted at the end of the specified course.

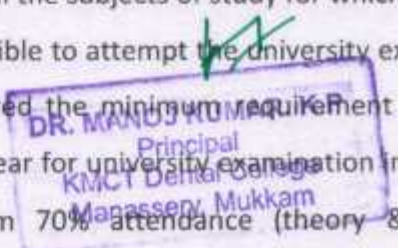
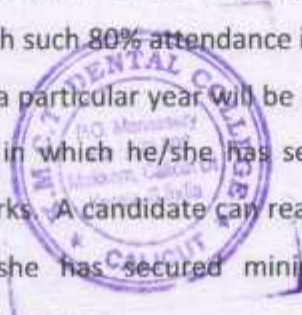
b) Methods of evaluation:

Evaluation may be achieved by the following tested methods:

- i. Written test
- ii. Practical examination
- iii. Clinical examination
- iv. Viva voce

c) Eligibility criteria:

For a candidate to be eligible to write the university examination of an year of study **for the first time** he/she should have minimum 80% attendance in **all the subjects** in which examination is being held for the year of study and a minimum of 70% in Lectures and Practical/ Clinical separately in all the non-exam subjects for the year (Refer Section 1.8). However candidates with such 80% attendance in all the subjects of study for which university examination is held for a particular year will be eligible to attempt the university examination **only in those subjects** in which he/she has secured the minimum requirement of 40% of internal assessment marks. A candidate can reappear for university examination in the failed subjects provided he/she has secured minimum 70% attendance (theory & practical



separately) and have scored minimum 40% marks in internal assessment conducted for the subject during the supplementary period.

3.2 *Schedule of regular/Supplementary examinations*

The University examination for a subject shall be conducted twice in a year as per the schedule approved by the Board of Examinations at an interval of not less than four to six months as notified by the university from time to time.

3.3 *Scheme of examination Showing Maximum and Minimum Marks*

The scheme of examination for B.D.S. Course shall be divided into 1st B.D.S. examination at the end of the first, 2nd B.D.S. examination at the end of second, 3rd B.D.S. examination at the end of third and Final BDS Part I examination at the end of fourth academic year. The Final B.D.S part II examination will be held on completing six months of the fifth academic year. The examination shall be open to a candidate who satisfies the requirements of attendance, progress and other rules governing the institution and The University.

1. **Distribution of Marks**

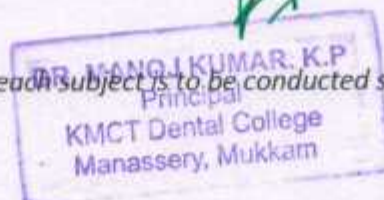
i. **For each paper in which written examination is held:**

Theory	
University written examination	70
University Viva Voce	20
Internal assessment	10
Total	100
Practical/ clinical	
University Practical/ Clinical examination	80
Internal assessment	20
Total	100
Aggregate marks for each paper	200

ii. **For Preclinical Examination in Prosthodontics/Conservative Dentistry & Orthodontics**

University Practical examination	60
Viva voce	20
Internal assessment Practical	20
Total	100

preclinical examination in each subject is to be conducted separately.



Detailed mark distribution of each paper for each subject is given in Table below
 Distribution of marks in University examination and internal assessment for various subjects from
 first year to fifth year.

Year of Study	Subjects		Theory Marks				Practical/ Clinical Marks			Grand Total Marks
			University written	Viva Voce	Internal Assessment	Total	University examination	Internal Assessment	Total	
I BDS	General Anatomy including Embryology and Histology		70	20	10	100	80	20	100	200
	General Human Physiology and Biochemistry	Section A Physiology	35	10	5	50	40	10	50	200
		Section B Biochemistry	35	10	5	50	40	10	50	
	Dental Anatomy, Embryology and Oral Histology		70	20	10	100	80	20	100	200
II BDS	General Pathology and Microbiology	Section A Pathology	35	10	5	50	40	10	50	200
		Section B Microbiology	35	10	5	50	40	10	50	
	General and Dental Pharmacology and Therapeutics		70	20	10	100	80	20	100	200
	Dental Materials	Section A Prosthodontics	35	10	5	50	40	10	50	200
		Section B Conservative dentistry	35	10	5	50	40	10	50	
	Pre Clinical Conservative Dentistry		-	20	-	20	60	20	80	100
	Pre Clinical Prosthodontics		-	20	-	20	60	20	80	100
	Pre Clinical Orthodontics		-	20	-	20	60	20	80	100
III BDS	General Medicine		70	20	10	100	80	20	100	200
	General Surgery		70	20	10	100	80	20	100	200
	Oral Pathology & Oral Microbiology		70	20	10	100	80	20	100	200
Final BDS part I	Oral Medicine and Radiology		70	20	10	100	80	20	100	200
	Periodontology		70	20	10	100	80	20	100	200
	Orthodontics & Dentofacial Orthopaedics		70	20	10	100	80	20	100	200
	Public Health Dentistry		70	20	10	100	80	20	100	200
Final BDS part II	Prosthodontics & Crown and Bridge		70	20	10	100	80	20	100	200
	Conservative Dentistry and Endodontics		70	20	10	100	80	20	100	200
	Paediatric & Preventive Dentistry		70	20	10	100	80	20	100	200
	Oral & Maxillofacial Surgery		70	20	10	100	80	20	100	200

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3.4 Papers in each year

I B.D.S. Examination:

- i. General Anatomy including Embryology and Histology
- ii. General Human Physiology and Biochemistry
- iii. Dental Anatomy, Embryology and Oral Histology

II B.D.S. Examination:

Only a candidate who has successfully completed and passed all the 1st B.D.S. subjects can appear.

- i. General Pathology and Microbiology
- ii. General and Dental Pharmacology and Therapeutics
- iii. Dental Materials
- iv. Pre Clinical Conservative Dentistry(Only Practical and Viva)
- v. Pre Clinical Prosthodontics and Crown & Bridge (Only Practical and Viva)
- vi. Pre Clinical Orthodontics (Only Practical and Viva)

III B.D.S. Examination:

Only a candidate who has successfully completed and passed all the 2nd B.D.S. subjects can appear.

- i. General Medicine
- ii. General Surgery
- iii. Oral Pathology & Oral Microbiology

Final BDS - Part I Examination:

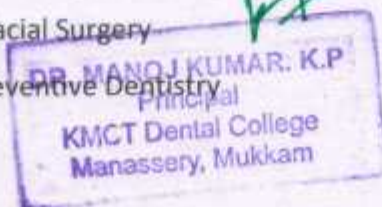
Only a candidate who has successfully completed and passed all the 3rd BDS subjects can appear.

- i. Oral Medicine and Radiology
- ii. Periodontology
- iii. Orthodontics & Dentofacial Orthopaedics
- iv. Public Health Dentistry

Final BDS - Part II Examination:

Only a candidate who has appeared for the Final BDS Part I examination can appear.

- i. Prosthodontics & Crown and Bridge
- ii. Conservative Dentistry and Endodontics
- iii. Oral & Maxillofacial Surgery
- iv. Paediatric & Preventive Dentistry



3.5 Details of theory examination (written)

1. The written examination in each paper will be of three hours duration and shall have maximum marks of 70. Type of Questions and Distribution of marks for written examination should be as given in **table I** given below.
2. The paper of Physiology & Biochemistry will be divided into two Sections, Section A (Gen. Physiology) and Section B (Biochemistry) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in **table II** below.
3. The paper of Pathology & Microbiology will be divided into two Sections, Section A (Gen. Pathology) and Section B (Microbiology) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in **table III** below.
4. The paper of Dental Materials will be divided into two Sections, Section A (Prosthodontics) and Section B (Conservative Dentistry) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in **table IV** below.
5. The question paper should contain different types of questions like essay, short note and brief note.
6. The nature of questions should be aimed to evaluate students of different standards ranging from average to excellent.
7. The questions should cover as broad an area of content of the course as possible. The essay questions should be properly structured and the marks specifically allotted.

Table I.

Type of Questions	No. of Questions	Marks / Question	Total Marks
Structured Essay	2	10	20
Short note	4	5	20
Brief note	10	3	30
Grand Total			70

Table II.

Physiology and Biochemistry

Subject	Type of Questions	No. of Questions	Marks of Questions	Total Marks
Section A Physiology	Structured Essay	1	10	10
	Short note	5	5	10
	Brief note	3	3	15
	Grand Total			35

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Subject	Type of Questions	No. of Questions	Marks of Questions	Total Marks
Section B Biochemistry	Structured Essay	1	10	10
	Short note	2	5	10
	Brief note	5	3	15
	Grand Total			35

Table III.
Pathology and Microbiology

Subject	Type of Questions	No. of Questions	Marks of Questions	Total Marks
Section A Pathology	Structured Essay	1	10	10
	Short note	2	5	10
	Brief note	5	3	15
	Grand Total			35

Subject	Type of Questions	No. of Questions	Marks of Questions	Total Marks
Section B Microbiology	Structured Essay	1	10	10
	Short note	2	5	10
	Brief note	5	3	15
	Grand Total			35

Table IV.
Dental Materials

Subject	Type of Questions	No. of Questions	Marks of Questions	Total Marks
Section A Prosthodontics	Structured Essay	1	10	10
	Short note	2	5	10
	Brief note	5	3	15
	Grand Total			35

Subject	Type of Questions	No. of Questions	Marks of Questions	Total Marks
Section B Conservative Dentistry	Structured Essay	1	10	10
	Short note	2	5	10
	Brief note	5	3	15
	Grand Total			35

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3.6 **Model question paper for each subject**

Given as Annexure

3.7 **Internal assessment**

The internal assessment examinations in theory and practical/ clinical may be held at least twice in a particular year followed by a model examination in the pattern of university examination to be held at the end of the year of study. Internal assessment marks for a candidate in a subject will be calculated as the average of, marks obtained in the model examination and the highest among all other internal examinations, in the subject. This average mark will be reported to the University. The Heads of the Department and College Principal should ensure that the class average of internal assessment marks reported to the University in each subject/paper is not more than 75% in both theory and practical/clinical separately. For a student to be eligible to appear for the University examination he/she should have secured at least 40% of maximum marks in internal assessment for both theory and practical/clinical in all subjects/papers, separately (i.e. minimum 4/10 in theory and 8/20 in practical/clinical). *(For calculating internal assessment mark in papers where subjects are combined viz. General Human Physiology & Biochemistry, General Pathology & Microbiology and Dental Materials, marks obtained in the two subjects will be counted together for reporting to University and for applying all other stipulations mentioned above)*

3.8 **Details of Practical/Clinical examinations**

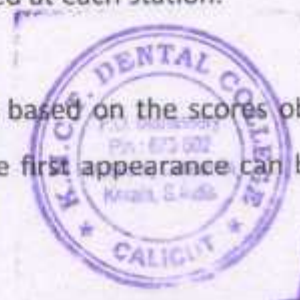
1. Objective Structured Clinical Evaluation:

The clinical /practical examination should include different procedures for the candidate to express one's skills. A number of examination stations with specific instructions to be carried out may be provided. This can include clinical procedures, laboratory experiments, spotters etc. Evaluation must be made objective and structured. The method of objective structured clinical examinations should be followed. This will avoid examiner bias because both the examiner and the examinee are given specific instructions on what is to be observed at each station.

2. Records/Log Books:

The candidate should be given credit for his records based on the scores obtained in the record. The marks obtained for the record in the first appearance can be carried over to the subsequent appearances if necessary.

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3. Scheme of clinical and practical examinations:

The specific scheme of clinical/practical examinations, the type of clinical procedures/experiments to be performed and marks allotted for each are given in Scheme of examination for each subject (Section 2.6). Changes if any should be discussed and finalized by the Chairman and members of the board of examiners and to be published prior to the conduct of the examinations along with the publication of time table for practical examination. This scheme should be brought to notice of the external examiner as and when the examiner reports. The practical/clinical examinations should be evaluated by two examiners of which one shall be an external examiner appointed from other zones of the university or outside University. Each candidate should be evaluated by each examiner independently and marks computed at the end of the examination.

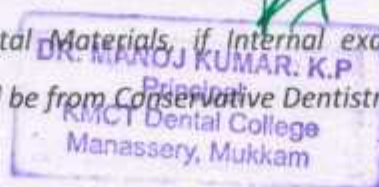
3.9 **Number of Examiners (internal & external) and their qualifications**

For practical/Clinical and Viva voce examination there shall be two examiners for each paper, one internal and one external, from Medical/ Dental Institutions approved/recognized by the Dental Council of India for B.D.S. Course. The internal examiner will be from within the institution. The external examiner can be from a different zone of the University or from outside University. When the number of candidates registered for a subject/s in a particular examination exceeds 75, two sets of examiners (one external & one internal each) may be appointed for the subject/s, such that the practical and viva examination for the first half of candidates may be conducted by one set of examiners and that of the remaining candidates may be done by the other set of examiners. No person shall be an External Examiner to the same college for more than 3 consecutive years. However, if there is a break of one year the person can be reappointed.

Note:

- 1) *In case of Physiology and Biochemistry if Internal examiner is from Physiology, External examiner should be from Biochemistry and vice versa*
- 2) *In case of Pathology and Microbiology if Internal examiner is from Pathology, External examiner should be from Microbiology and vice versa*

In case of Dental Materials, if Internal examiner is from Prosthodontics, External examiner should be from Conservative Dentistry and vice versa



Qualification and experience to be eligible for examinership for BDS examination:

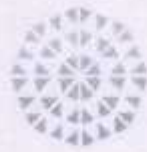
- 1) M.D.S. Degree in the concerned subject from a DCI recognized Institution.
- 2) Four years teaching experience in the subject after MDS in the concerned subject in a Dental College approved/recognized by the Dental Council of India for BDS.
- 3) Should be qualified as per DCI to hold the post of Reader or above in a Dental Institution approved/recognised by the Dental Council of India for B.D.S.
- 4) In case of medical subjects the qualification of examiners shall be the same as that prescribed by the Dental Council of India for the concerned subject.
- 5) Age not more than 65 years or as prescribed by DCI from time to time.

3.10 Details of Viva.

Viva voce is an excellent mode of assessment because it permits a fair broad coverage and it can assess the problem solving capacity of the student. An assessment related to the affective domain is also possible through viva voce. It is desirable to conduct the viva voce independently by each examiner. In order to avoid vagueness and to maintain uniformity of standard and coverage, questions can be pre-formulated before administering them to each student. Twenty marks are exclusively allotted for viva voce and that can be divided amongst the two examiners.


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EXAMINATION HALL AND AUTOMATION OF EXAMINATION SYSTEM



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